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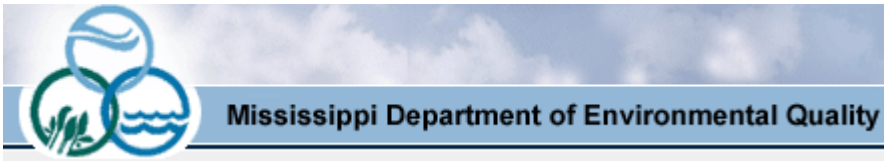

and

MISSISSIPPI BLUFFS INDUSTRIAL PARK, LLC

Site Characterization Report

Former Vicksburg Chemical Company
Vicksburg, Mississippi

Agency Interest No. 1766

18 July 2008

ARCADIS

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Site Characterization Report

Former Vicksburg Chemical Company
Vicksburg, Mississippi
Agency Interest No. 1766

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AMAX	American Metal Climax Corporation
BSCEM	Baseline Site Conceptual Exposure Model
CAP	Corrective Action Plan
CAS	Chemical Abstract Service
Cedar Chemical	Cedar Chemical Corporation
CoC	Chemical of Concern
ft bls	Feet Below Land Surface
g/mol	Grams Per Mole
Harcros	Harcros Chemicals, Inc.
K_{oc}	Organic Carbon Partition Coefficient
LCS	Laboratory Control Sample
MARIS	Mississippi Automated Resource Information System
MCL	Maximum Contaminant Level
MDEQ	Mississippi Department of Environmental Quality
MDL	Method Detection Limit
mg/kg	Milligrams per Kilogram
mg/L	Milligrams Per Liter
MNA	Monitored Natural Attenuation
MS	Matrix Spike
MSMA	Monosodium Methane Arsenate
Pace	Pace Analytical Services, Inc.
PCB	Polychlorinated Biphenyl
psi	Pounds Per Square Inch
QA	Quality Assurance
QAPP	Quality Assurance Project Plan
QC	Quality Control
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
RFI Report	Resource Conservation and Recovery Act (RCRA) Facility Investigation Draft Final Report
RL	Reporting Limit
RRUW	Railroad Unknown Well
RSCEM	Remedial Site Conceptual Exposure Model
SDG	Sample Delivery Group
SPLP	Synthetic Precipitation Leaching Procedure
SPUW	Sampling Point Unknown Well
SVOC	Semivolatile Organic Compound
SWMU	Solid Waste Management Unit
TCLP	Toxicity Characteristic Leaching Procedure
TRG	Target Remediation Goal

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µg/kg	Micrograms Per Kilogram
UCS	Unconfined Compressive Strength
URS	URS Corporation
USEPA	U.S. Environmental Protection Agency
USGS	U.S. Geological Survey
VCC	Vertac Chemical Corporation
Vicksburg Chemical	Vicksburg Chemical Company
VOC	Volatile Organic Compound
Work Plan	Site Baseline Sampling Work Plan

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Executive Summary

ARCADIS was retained by Mississippi Bluffs Development, Inc., to conduct remediation activities at the former Vicksburg Chemical Company located at 4280 Rifle Range Road in Vicksburg, Mississippi. The site was formerly a pesticide and herbicide manufacturing facility divided into two areas called the North Plant and South Plant. This Site Characterization Report presents the findings of field and laboratory activities conducted in 2007 and 2008 by ARCADIS. Data gathered from documents generated during a previous Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) of the site were also incorporated into the understanding of site conditions. The overall purpose of the investigative activities conducted was to obtain data representative of present site conditions. These activities were conducted in accordance with Mississippi Department of Environmental Quality's (MDEQ's) Brownfields Program.

A review of the RFI documents indicated that potential sources of contamination were defined in the North and South Plant areas. Former process operations and possible undocumented historical surface spills were the most likely causes of the investigated impacts to soil and groundwater. Based on the RFI data, site-specific chemicals of concern (CoC) were identified. Prior to conducting investigative activities at the site, ARCADIS submitted a health and safety plan, quality assurance project plan, and sampling work plan to MDEQ. The activities discussed in this report were conducted in accordance with these documents.

The sampling conducted in 2007 investigated on-site soil, storm water, and groundwater conditions. Soil sampling was conducted to verify the extent of contamination as defined in the RFI documents, to vertically define geologic strata located beneath the site, to evaluate leachability of CoC from potential source areas, and to evaluate the physical characteristics of the North Pond bottom sludge. Storm water sampling consisted of the collection and analysis of sheet flow samples, surface impoundment sampling, and outfall sampling was conducted to obtain a record of site baseline conditions. Groundwater conditions were evaluated through a combination of sampling wells installed during RFI activities and the installation and sampling of temporary wells. Temporary wells were installed in locations spatially important for defining CoC plume boundaries. In addition to CoC sampling, water levels were measured in the monitor wells and slug tests were conducted to gather information on the subsurface flow characteristics. Non-aqueous phase liquids were not encountered during any of the 2007 sampling.

There are on-site CoC concentrations above restricted MDEQ Tier 1 target remediation goals (TRGs) for soil and groundwater. Soil sampling conducted in 2007 confirmed the

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boundaries of areas that exceed restricted Tier 1 TRGs. Sampling conducted in 2007 confirmed the continued presence of CoC concentrations in groundwater that exceeded Tier 1 TRGs.

Due to observed inconsistencies between the arsenic analytical data and the conceptual site model, a second set of groundwater samples was collected in March 2008. Six wells were sampled for arsenic only. Arsenic was analyzed in accordance with SW-846 Method 6020. This method is more sensitive to arsenic than Method 6010, which was used for the 2007 sampling. Samples from 21 wells were analyzed for the complete list of CoC presented in Section 5.

An ecological checklist was completed that evaluated the potential for harm to ecological receptors due to the presence and/or migration of site CoC. Surface water and sediment analyses conducted by the U.S. Environmental Protection Agency (USEPA) in 2005 indicated that CoC were detected in both these media. After an evaluation of the data, it was concluded that the observed concentrations were either comparable to upstream concentrations, below applicable regulatory standards, or similar to naturally occurring concentrations.

Using data generated during investigative activities, a groundwater model was constructed to simulate the flow and transport of detected CoC. The model was developed using the 1998 MODFLOW and 1999 MT3DMS codes developed by USEPA. The model was used to simulate a monitored natural attenuation condition after the installation of an engineered cap (a common element of all remedial options explored) and the effect of upgradient and downgradient barrier walls with and without groundwater recovery. The downgradient barrier wall with groundwater recovery provided the best performance of the modeled scenarios by preventing CoC from reaching the surface water bodies adjacent to the south and southeast property boundaries.

To mitigate the risk of CoC exposure to receptors above regulatory standards, three remedial action options were investigated. The main criterion used to evaluate whether a remedial option was considered successful was the ability of that option to prevent exposure of CoC concentrations above MDEQ Tier 1 TRGs for restricted use to receptors. One option, presented as Remedial Option 3 in the body of this report, successfully met this criterion. Remedial Option 3 consists of a combined approach including incorporation of solidified pond sludges and impacted soil material into the on-site landfill (Solid Waste Management Unit 2), installation of an engineered cap with stabilization of potential surface soil source areas, installation of a vertical barrier wall with a groundwater recovery system, restriction of groundwater used on the property using legal instruments, and long-term groundwater monitoring. Based on the

F I N A L

amenability of some of the CoC with the highest concentrations to in-situ remediation methods, a pilot study may be conducted to evaluate air sparging, dual phase extraction, and/or chemical oxidation. Prior to installing the vertical barrier wall, the results of the pilot study will be evaluated to determine if the remediation costs can be reduced.

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1. Introduction

ARCADIS was retained by Mississippi Bluffs Development, Inc., to conduct remediation activities at the former Vicksburg Chemical Company (Vicksburg Chemical) located at 4280 Rifle Range Road in Vicksburg, Mississippi. The site was formerly a pesticide and herbicide manufacturing facility divided into two areas called the North Plant and South Plant. Since Vicksburg Chemical declared bankruptcy on March 8, 2002, the site had not been regularly investigated or maintained until ARCADIS began conducting site activities in 2007. This Site Characterization Report presents the findings of field and laboratory activities conducted in 2007 by ARCADIS. The overall purpose of the investigative activities conducted was to obtain data representative of present site conditions. These activities were conducted in accordance with Mississippi Department of Environmental Quality's (MDEQ's) Brownfields Program.

F I N A L

2. Property Background

2.1 Property Location and Demographics

Vicksburg Chemical was formerly owned by Cedar Chemical Corporation (Cedar Chemical). The facility is located south of Interstate 20 on Rifle Range Road and within the southwest section of the city of Vicksburg, Warren County, Mississippi. The site is comprised of approximately 535 acres located in Sections 4, 5, 8, 9, and 10, Township 15 North, Range 3 East (Facility entrance: Latitude: North 32° 18' 01", Longitude: West 90° 53' 57"). The site location is shown on Figure 1.

2.2 Property History

The North Plant began operation in 1961 and produced potassium nitrate, liquid chlorine, and liquid dinitrogen tetroxide. The raw materials for the North Plant included potassium chloride and nitric acid. The South Plant began operation in 1953 manufacturing chlorinated pesticides, nitrogen-based herbicides, and other agricultural chemicals. The only active operations at the South Plant after 1992 were the nitric acid unit constructed in 1986 and a potassium carbonate unit constructed in 1994. In addition to formerly active process units, the South Plant has an on-site landfill that contains waste generated during previous plant operations. During various periods prior to 1987, the South Plant produced dinitro butyl phenol (dinoseb or DNBP), monosodium methane arsenate (MSMA), diethyl hexyl phosphoric acid, 1-hydroxy-ethylidene-1-1-diphosphonic acid, toxaphene, methyl parathion, cyanazine (bladex),

and atrazine. Toxaphene and methyl parathion are insecticides, while atrazine, dinoseb, and MSMA are herbicides. Raw materials for these operating processes included chlorine, camphene, ortho-secondary butyl phenol, sodium arsenate, sodium hydroxide, methyl chloride, sulfuric acid, sodium paranitrophenolate, and phosphorus trichloride.

Originally, the two plants were completely separate, owned and operated by two different companies. The South Plant was originally constructed by Spencer Chemical in 1953. American Metal Climax Corporation (Amax) constructed the North Plant in 1961. After purchasing the South Plant in 1964, Gulf Chemical added a formaldehyde unit in 1966. According to historical environmental documents, Vicksburg Chemical was formed in early 1972 and purchased both the Gulf Oil and Amax facilities (except the formaldehyde plant) in July 1972. In 1978, Vicksburg Chemical was merged into Vertac, Inc., which merged into Vertac Chemical Corporation (VCC) in September 1979. Cedar Chemical acquired the Vicksburg Chemical plant from VCC in February 1986. Fermenta A.B. of Sweden acquired Cedar Chemical in June 1986. Nine West Corporation (Trans Resources, Inc.) acquired Cedar Chemical in January 1988.

In addition to the above-mentioned operations at the plant, the property was the location of two additional operations: 1) an operation by Reagent Chemical to produce aqueous hydrochloric acid from a by-product of the toxaphene operation; and 2) the Gulf formaldehyde plant. The formaldehyde unit owned and formerly operated by Borden Chemical is located inside the former boundary of the South Plant.

Presently, the former process areas in the North Plant and the South Plant are inactive. Demolition of these areas is in progress by Harcros Chemicals, Inc. (Harcros). Harcros is presently located on an approximately 12-acre portion of the North Plant with access to Rifle Range Road. Harcros currently operates as a bulk chemical distribution business. Future Harcros operations may include chemical mixing and blending operations

2.3 Previous Investigation

Previous investigative activities were conducted at the site by URS Corporation (URS) as part of the Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) process. Different areas of the plant were divided into solid waste management units (SWMUs) based on historical plant operations conducted in each area. There are 34 named SWMUs at the facility. Soil and groundwater were investigated for most

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SWMUs; however, some were only inspected. The monitor well network presently in place at the site was installed during the SWMU investigations.

Vicksburg Chemical initiated an RFI in 1994 and continued through 2001. The *Resource Conservation and Recovery Act (RCRA) Facility Investigation Draft Final Report* (RFI Report) and *Draft Groundwater Assessment Report* were completed in August 2001 and November 2001, respectively. Both reports were submitted to the U.S. Environmental Protection Agency (USEPA) and subsequently approved in December 2001. The RFI Report summarizes information contained in multiple submittals to USEPA as part of the RFI process from August 1994 to August 2001. The RFI Report presents the delineated soil and groundwater plumes located throughout the facility.

The information contained in the URS reports was relied on as accurate and valid. The delineation sampling program implemented in 2007 by ARCADIS was based in part on data contained in the RFI Report. In particular, depictions of soil contaminant plumes shown on Figure 18-6, "Overview of Site-Wide Soil Contamination", were relied on to determine the placement of delineation soil samples.

To further the remediation efforts, baseline soil, groundwater, and storm water site sampling was conducted at the site from January 29, 2007, to May 4, 2007. Site activities were completed in accordance with the January 10, 2007, *Site Baseline Sampling Work Plan* (Work Plan). The Work Plan was developed in part using data collected as part of the RFI process and data collected by USEPA in 2005. These data are considered valid and usable. Field activities conducted as described in the Work Plan included the collection of groundwater, soil, and storm water samples. The samples were analyzed by a laboratory certified under the National Environmental Laboratory Accreditation Program. The objectives of these activities included verification of site conditions, collection of data to aid in the conceptual understanding of present contaminant boundaries in soil, evaluation of contaminant migration via groundwater and storm water, and collection of data to aid in the further development of remedial options. In addition, slug tests and miscellaneous housekeeping activities related to the overall remediation effort were conducted during the field mobilization portion of the sampling program. The Baseline Sampling Report, an initial report of findings, was submitted to MDEQ on September 5, 2007.

3. Investigative Activities

Field activities were conducted in several phases during the period of January 2007 to May 2007 and in March 2008. All field activities were performed in accordance with

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the September 14, 2006, *Quality Assurance Project Plan* (QAPP) and the Work Plan. The following sections provide details pertaining to the collection of data from each media (groundwater, soil, and storm water).

Two previously characterized soil piles located in SWMU 20 were not recharacterized. These piles contain approximately 12,500 cubic yards of contaminated material. Soil from these areas will be included in the remediation efforts described in Section 10.

F I N A L

3.1 Source Area Characterization

Source area characterization was conducted in accordance with the procedures outlined in the QAPP. A Geoprobe® rig, hollow-stem auger with Shelby tubes and/or split-spoon devices, and hand-augering tools were used to collect soil samples. Initial groundwater sampling was conducted using the monitor well network installed during RFI activities. Based on the results of the initial groundwater sampling, additional groundwater samples were collected using temporary wells installed with a Geoprobe® rig. Storm water sampling was conducted using handheld sample collection devices as described in the QAPP.

3.2 Impacted Surface Water and Sediments

Surface water and sediment sampling was conducted by USEPA in 2005. No additional surface water sampling has been conducted since that time.

3.3 Property Geology

Property geology information was obtained from a review of published geologic information and field activities and is discussed in Section 4.4.

3.4 Property Soil and Vadose Zone Characteristics

As each boring was advanced, either by a Geoprobe® unit, drill rig, or hand auger, soil samples were inspected by an experienced field geologist with all relevant data (i.e., soil type, lithology, color, physical characteristics, moisture content, and any observed evidence of contamination) recorded onto a Sample/Core Log. The Sample/Core Logs for each sampled interval are provided in Appendix A.

Quality Assurance (QA)/Quality Control (QC) samples were collected during the soil sampling. Duplicate samples were collected using the same collection techniques as conducted on the parent sample. Trip blank, field blank, and equipment rinsate

samples were prepared in accordance with the QAPP and Work Plan. All of the groundwater and QA/QC samples were containerized and transported to the laboratory in sealed coolers under proper chain-of-custody procedures.

Soil samples were collected for laboratory chemical analysis in a phased approach from January 2007 through May 2007. Soil samples were continuously collected from land surface to total depth utilizing a Geoprobe® at the locations (GP-SB-1 through GP-SB-21) shown on Figure 2. A sediment sample (NP-SED) was collected from the North Pond using hand tools. All soil samples submitted for chemical analysis were collected and analyzed in accordance with the procedures outlined in the approved QAPP.

During the initial 2007 sampling event, soil samples were collected from the following intervals in each probehole and retained for chemical analyses:

- The soil sample collected from land surface to 2 feet below land surface (ft bls);
- The soil sample collected from 2 to 4 ft bls; and
- A sample from any obvious stained intervals below 4 ft bls if the 2- to 4-ft bls sample appeared to be stained.

Additional samples were collected from areas considered “hotspots”. These samples were collected to confirm the location and concentration of soils that had previously contained very high concentrations of arsenic, dinoseb, and toxaphene that may require solidification and/or stabilization. Solidification and stabilization samples were collected from 27 locations (NPP-S/S-01 through NPP-S/S-06 and S/S-1 through S/S-21) using hand tools. These sample locations are shown on Figure 3. Because these “hotspot” areas are located in the area that is anticipated to be covered with an engineered cap (Figure 4), a shorter analyte list (arsenic, dinoseb, and/or toxaphene) was used. However, these data have been used to supplement the delineation activities.

The S/S-1 through S/S-21 samples were collected in conjunction with a stabilization/ solidification study at the locations shown on Figure 3. The analytical data collected during the initial soil sampling portion of the study were used for delineation purposes.

In addition to the samples collected for chemical analysis, a geotechnical investigation has been completed at the site. During March and April 2007, geotechnical sampling was conducted with a drill rig in the vicinity of SWMU 2 to support a slope stability

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study of the area (LF-B-1 through LF-B-14) shown on Figure 3. Five borings (GP-SB-22 through GP-SB-26) were also advanced within the North and South Plants to help locate the top of the Byram Marl. These borings were conducted with a Geoprobe® rig.

While the main purpose of this sampling event was to collect soil samples for geotechnical analysis, six soil samples were collected and sent to a laboratory for chemical analyses. These were the only samples collected using a drill rig with hollow-stem augers and split-spoon samplers or Shelby tubes. The samples were collected in accordance with the drill rig sampling procedures detailed in the QAPP.

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3.5 Property Groundwater/Aquifer Characteristics

Prior to collecting groundwater samples, static water level measurements were recorded in all wells and piezometers shown on Figure 5, and each well was checked for the presence of any free-phase material. No free-phase product was noted during groundwater sampling. The recorded static water level measurements are presented in Tables 1 and 2. Figures 6 and 7 are potentiometric maps generated from the measurements.

Groundwater samples were collected from 36 monitor and recovery wells, 7 temporary wells, and 2 unknown wells that were identified as SPUW (sampling point unknown well) and RRUW (railroad unknown well). The Work Plan specified that existing wells would be purged of five times the well volume, or to dryness. All of the wells were purged with a high volume pump. Most of the wells were purged to dryness before five well volumes were obtained. The purpose of the additional purging effort was to quasi-redevelop existing wells that had not been sampled in several years. The last sampling event was conducted by USEPA in March 2005 and only included a small subset of monitor wells.

A review of the results of the initial groundwater data indicated that additional information was needed to provide adequate delineation of groundwater conditions at the site. To supplement the data collected from the existing monitor well network, seven new temporary wells were installed and two existing wells were resampled to confirm the initial data reported in May 2007.

Groundwater samples (TP-PZ-01 through TP-PZ-07) were collected from seven temporary wells installed using direct push technology (Geoprobe®). The wells were constructed from 0.75-inch polyvinyl chloride. With the exception of Well TP-PZ-04, each temporary well was installed with a 10-foot screened interval at the bottom of the

well. Temporary Well TP-PZ-04 was completed with a 15-foot screened interval at the bottom of the well.

Each groundwater sample was poured directly into the appropriate laboratory-provided sample container(s), the containers properly labeled, and placed in an ice bath within an insulated cooler. Separate aliquots of groundwater were collected during purging from each well with a goal of stabilization prior to sampling. Stabilization was determined through the field measurement of pH, specific conductance, temperature, and turbidity. As each well was being purged and/or sampled, Water Sampling Logs and Field Parameter forms (Appendix B) were completed by sampling personnel.

QA/QC samples were collected during the groundwater sampling events. Duplicate samples were collected using the same collection techniques as conducted on the parent sample. Trip blank, field blank, and equipment rinsate samples were prepared in accordance with the QAPP and Work Plan. All of the groundwater and QA/QC samples were containerized and transported to the laboratory in sealed coolers under proper chain-of-custody procedures.

Slug tests were conducted on eight wells located throughout the site. These wells were selected based on their depth and spatial location. Also, some of the wells were selected because hydraulic conductivity was previously calculated for these wells during the RFI.

For each slug test, the initial groundwater level in the well was measured. A pressure transducer was then lowered into the well. Groundwater level measurements were collected until the water level in the well stabilized. Once the groundwater level stabilized, the pressure transducer and data logger were activated. A slug of known volume was lowered into the well rapidly. The groundwater levels in the well were allowed to stabilize. Once stabilized, the slug was rapidly removed from the well. The groundwater level was allowed to stabilize again. The pressure transducer and data logger were then removed from the well. The data were downloaded from the data logger and analyzed using the AQTESOLV software. The slug test data are included in Appendix C.

3.6 Human/Target Population Surveys

The geographic center of the former process area of the site is located at 32° 17’ 41.29” N and 90° 54’ 15.33” W. This location and the former process area site boundaries were used in the database searches discussed below.

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Information on the population near the site was obtained from the Mississippi Automated Resource Information System (MARIS) website. The MARIS website has links to various state and federal databases. The demographics information reported in Section 4.7 was obtained from the U.S. Census Bureau's 2000 Blocks and 2000 Block Numbering Areas/Tracts databases. Local zoning information was obtained from the City of Vicksburg's Geoportal website. The MARIS and City of Vicksburg websites were accessed in December 2007. Information was not included for land located west of the Mississippi River in Louisiana, although a 2-mile radius from the site extends into Louisiana.

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3.7 Area Water Well Surveys

A records review was conducted using the geographic center of the site to determine information on area water wells. Information was obtained from the following databases accessed through the MARIS websites: Mississippi Department of Health Wells, Mississippi Office of Land and Water Resources Permit Wells, U.S. Geological Survey (USGS) Public Wells, and USGS Private Wells. Of these four databases, only the Mississippi Office of Land and Water Resources and USGS Public Wells databases had information on wells located within a 2-mile radius of the site. Information was not obtained for wells located west of the Mississippi River in Louisiana, although a 2-mile radius from the site extends into Louisiana.

3.8 Ecological Target Surveys

The ecological checklist was completed using information obtained from USEPA sampling conducted at the site in 2005, the RFI Report, ARCADIS' activities on site in 2007, and document reviews. The completed ecological checklist is included in Appendix D.

4. Property Physical Characteristics

The former Vicksburg Chemical plant was situated on approximately 65 acres located in the southwest portion of the City of Vicksburg. The plant was located within the approximately 535 acres encompassed within the property boundary. The property physical characteristics discussed below pertain only to the portion of the site that has been investigated within the 65-acre former plant boundary.

4.1 Source Area Physical Characteristics

The site formerly contained equipment used in the manufacture of pesticides and herbicides. Presently, the entire South Plant is being demolished. Portions of the North Plant are being demolished; however, structures will remain in place in the North Plant for the continued operation of Harcros. The scope of the demolition includes removing structures and concrete foundations to 1 foot or less above the surrounding grade. Most of the underground piping and all of the concrete slabs will remain in place. The final remedy will be constructed on the grade remaining after demolition activities are completed.

4.2 Impacted Surface Water and Sediments

Stouts and Hennesseys bayous are small bayous located adjacent to the eastern and southern property boundaries. There is an approximately 20-foot decrease in elevation from the site property to the bayous. The wetted surface of Stouts Bayou and Hennesseys Bayou was less than 20 feet across when observed during site activities. Both of these bayous appear to be shallow in the vicinity of the site. The depth for these bayous in the vicinity of the site is approximately 5 feet.

4.3 Regional Geology

Vicksburg is situated on the boundary of two distinct geological provinces. To the west lies the Mississippi River alluvial plain, an area of low relief stretching 80 miles to Monroe, Louisiana. The alluvial plain consists of Pleistocene (Ice Age) and recent deposits of clay, silt, sand, and gravel that were laid down by the Mississippi River as it meandered across this broad floodplain. Many different depositional environments are found within the valley. To the east lie the uplands and rolling hills of the Gulf Coastal Plain that overlies sedimentary rocks and soils of Tertiary age. The Bluff Hills escarpment to the west of Vicksburg provides an abrupt transition in topography from the alluvial plain by rising 100 to 200 feet above the alluvial plain.

The Vicksburg geology contains unconsolidated sediments of Cretaceous to Quaternary age and the sediments thicken in the structural trough toward the axis of the Embayment and the Gulf of Mexico. The most conspicuous deposit from the Quaternary age in the Vicksburg area is loess, a windblown silt derived from the Mississippi River floodplain during glacial times. Loess of the Lower Mississippi Valley area is contiguous with an extensive blanket in the central United States and together forms one of the largest blankets in the world. Deposits are present east of the alluvial valley as an essentially continuous 30- to 60-mile wide veneer from the

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Cairo area south to below Baton Rouge. It is in this area that it reaches its maximum thickness of more than 75 feet and has the most prominent outcrops. Loess is also present as a much thinner (10 feet or less) veneer in a narrow band. Red clay sand and gravel of Pliocene or Pleistocene age underlie the loess at Vicksburg. Exposures of the red clay sand occur near the base of the loess cuts along Interstate 20 just east of Vicksburg.

Five formations of Oligocene age form a narrow outcrop band that trends northeastward from the uplands northwest of Sicily Island across the alluvial valley area to the uplands in southwestern Mississippi. All formations are prominently exposed in the banks of the Mississippi River and the bluffs to the east from about 20 miles northeast of Vicksburg to several miles south of that city. Over that distance, it drops in elevation by about 100 feet but plunges steeply southward into the subsurface thereafter.

The report *Hydrogeology, model description, and flow analysis of the Mississippi river alluvial aquifer in Northwestern Mississippi* by USGS and *Geomorphology and quaternary geologic history of the lower Mississippi valley* by Roger T. Saucier provide regional geological information for the Vicksburg area. They also include some relevant information on the various deposits near the Vicksburg area summarized in the following section.

4.4 Property Geology

The Bluff Hills west of Vicksburg provide a steep increase in topography by rising 100 to 200 feet above the alluvial plain. The bluff ridges define surface water and groundwater divides. As a result, the groundwater flow system in the bluff highland is separated from the Mississippi River alluvial plain and is dictated by the local hydraulic features, such as local recharge, surface water, etc.

The Pleistocene loess and fluvial deposit formation underlying Vicksburg Chemical form a water-bearing unit. This unit overlies the Byram Marl. The argillaceous, massive, and medium-dense character of the marl inhibits any significant movement of water through this unit. Therefore, the marl serves as the bottom of the shallow confined aquifer. Deeper and more productive aquifers such as the Forrest Hill existing below are hydraulically separated from the shallow groundwater aquifer by the Byram Marl formation. The clayey fill material placed atop the loess inhibits the vertical migration of the groundwater.

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Geologic cross sections developed from site investigations are provided as Figures 8 through 16. From these cross sections, it can be clearly seen that the major formation on top of the relatively impermeable Byram Marl consists primarily of silt, clayey silt with discontinuous deposits of low permeable materials, such as clay, silty clay, and sandy clay. Immediately below the loess, a thin layer (1 to 2 feet) of sandy clay is present. This may indicate the presence of the fluvial deposit underlying the massive loess formation. Due to the discontinuous and heterogeneous character of the formation, the shallow unit is considered to be one hydrogeologic unit, about 40 feet thick, which consists primarily of the loess formation, with discontinuous clayey contents and, to a lesser extent, sandy contents. A structure map is included as Figure 17.

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4.5 Property Soil and Vadose Zone Characteristics

The physical properties of the majority of the soil on site were not investigated. However, geotechnical sampling was conducted through SWMU 2 due to the lack of historical information regarding the original contours of this area prior to being put in service as a landfill. These data will be incorporated into the final remedy for SWMU 2. The usage of these data is not recommended to characterize any area other than the landfill itself.

4.6 Property Groundwater/Aquifer Characteristics

On January 29, 2007, and October 19, 2007, water level measurements were collected from all of the on-site wells. The data collected were used to generate potentiometric surface maps of groundwater conditions (Figures 6 and 7). There was one off-site well (Well MW-3) shown on maps presented in the RFI Report that was not found. In addition, two wells were found that were not shown on previous maps. These wells were designated SPUW and RRUW. Water levels were collected from these wells.

Previous hydrogeologic data presented in URS reports indicated that there are two groundwater zones at the site that are interconnected in some areas. Groundwater was depicted as flowing toward Stouts Bayou in the previous RFI Report. Stouts Bayou is located southeast of the site. Cross sections generated by incorporating RFI data with the data collected in 2007 by ARCADIS indicate that there is one permeable zone located above the Byram Marl structure. At various on-site locations, this zone is interspersed with low permeable material as shown on the cross-sectional maps (Figures 8 through 16).

Slug tests were conducted on eight wells located throughout the site. These wells were selected based on their depth and location within the site. Also, some of the wells were selected because hydraulic conductivity was previously calculated for these wells during the RFI. The results of the slug tests indicate that hydraulic conductivity at the site ranges from 0.0068 foot per day in the South Plant to 1.274 feet per day in the North Plant. These K values compare favorably with the values reported during the RFI. The slug test data are included in Appendix C.

4.7 Human/Target Population Surveys

A review was conducted of 2000 Census Bureau General Demographic statistics for the ten census blocks (approximately 2 square miles of land near the site) in which the city of Vicksburg data are contained. At that time, the city of Vicksburg had a population of approximately 26,000. The population density in the immediate vicinity of the site is 176.7 persons per square mile. Although the median age for residents of the entire city is close to the national median age at 34.3, the median age for those living in the site area is approximately 44.1. Approximately 79.8 percent of residents near the site own their home, with 17.5 percent renting. This is a higher ownership percentage than in the city of Vicksburg and nationally.

According to the City of Vicksburg GeoPortal website, the predominant zoning in the vicinity of the site is industrial. To the west along Warrenton Road there are residential and commercial properties that extend along the Mississippi River. To the north are residential areas. Moving east from the site to the north is a light industrial area with commercial and residential properties along the west side of US Highway 61.

Land use generally follows the zoning as described; however, a review of aerial photography of the immediate area shows that the undeveloped land has a forest land cover with some significant agriculture approximately 1 mile southwest of the site along US Highway 61. These lands extend westward to the Mississippi River. Approximately 70 percent of the immediate area around the site is undeveloped and covered with trees.

4.8 Area Water Well Surveys

Five water wells were located within a 2-mile radius of the site. Two wells were listed in the USGS Private Wells database. Wells 4127 and 4242 are used for domestic purposes. These wells are located east of the site, across Stouts Bayou. Three wells were listed in the Mississippi Office of Land and Water Resources Wells database.

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Wells 17656, 15977, and 14347 are permitted for commercial, industrial, and other use, respectively. All of these wells are located along the eastern bank of the Mississippi River. The distance from the plant boundary to the nearest well (4127) is approximately 0.86 mile. None of the located wells are likely to be impacted by site activities. All of the wells are shown on Figure 18.

4.9 Ecological Target Surveys

The ecological checklist indicates that, due in part to the use of the property as a chemical manufacturing facility and the physical characteristics of the adjacent surface water bodies, the site would not be considered valuable habitat. During the completion of the ecological checklist, chemical concentrations detected in surface water bodies and sediment sampling conducted by USEPA in 2005 were evaluated to determine the impact that plant operations may have had on the adjacent surface water bodies. A review of the data indicated that the reported concentrations were below applicable USEPA and MDEQ regulatory standards, or comparable to naturally occurring concentrations. The ecological checklist is included in Appendix D.

5. Nature and Extent of Contamination

Potential source areas were defined in the North and South Plants. These areas were based on known process and/or material storage areas. Potential source areas were evaluated and/or investigated as part of the RFI evaluation of on-site SWMUs. Former process operations and possible undocumented historical surface spills were the most likely causes of the investigated impacts to soil and groundwater.

5.1 Sources and Source Areas (On Site and Off Site)

In the Baseline Site Conceptual Exposure Model (BSCEM) included in Appendix E, the primary sources of chemicals of concern (CoC) detected in soil and groundwater originated from historical operations. Site CoC were selected based on the analyses conducted during the RFI. The CoC approved by MDEQ for soil, storm water, and groundwater are listed below:

- Volatile organic compounds (VOCs) included in Appendix IX;
- Selected semivolatile organic compounds (SVOCs) including acetophenone, atrazine, bis(2-ethylhexyl)phthalate, cyanazine, 4-nitrophenol, and pentachlorophenol;

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- Toxaphene;
- Dinoseb; and
- Arsenic.

Soil and groundwater isoconcentration maps indicate that the highest CoC concentrations are located on site. This indicates that the soil and groundwater contamination originated from on-site sources. This is consistent with the BSCEM.

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5.2 Soils and Vadose Zone

5.2.1 Soil Sampling

Soil samples were collected from 27 locations. These locations were chosen to assess the extent of soil concentrations detected in the RFI for the purpose of determining the limits of an engineered cap. This sampling program was not meant to duplicate RFI efforts or to be a full site evaluation. All samples were submitted to Pace Analytical, Inc. (Pace), in St. Rose, Louisiana, for analysis using the following USEPA SW-846 approved methods:

- VOCs by Method 8260;
- Organochlorines by Method 8081 (Pesticides) and 8151 (Herbicides);
- SVOCs by Method 8270; and
- Metals (Total) by Method 6010.

The soil analytical data and QA/QC data are summarized in Tables 3 through 7. Several VOCs, SVOCs, metals, and/or organochlorines were detected in soil. All of the detected soil concentrations are shown on Figure 19.

Soil sample results were compared to MDEQ Tier 1 Target Remediation Goals (TRGs) for restricted use in accordance with the QAPP. Arsenic and toxaphene had the most exceedances of Tier 1 TRGs of 3.82 milligrams per kilogram (mg/kg) and 5.2 mg/kg, respectively. At the site, 11.8 mg/kg is used as the arsenic regulatory standard. This standard is based on the 95 percent upper confidence limit of the mean of the background concentration. All of the detected concentrations above MDEQ Tier 1 TRGs for restricted use are shown on Figure 20.

Soil sample results were compared to MDEQ Tier 1 TRGs. A summary of pertinent data for compounds detected in soil is provided in the table below:

Compound	Detected Concentration (mg/kg)		Number of Occurrences	Restricted Tier 1 TRG (mg/kg)	Number of Detections Exceeding TRG
	Minimum	Maximum			
VOCs					
1,2,4-Trimethylbenzene	0.00131 J	281	5	102,000	0
1,3,5-Trimethylbenzene	0.00081 J	99.1	4	436	0
2-Butanone (MEK)	0.0105	0.222	5	84.5	0
Acetone	0.0113	0.109	10	104,000	0
Atrazine	0.419	13,800	2	25.8	1
Benzene	0.00144 J	0.00383 J	5	1.36	0
Carbon disulfide	0.00121 J	0.00835	2	7.97	0
Carbon tetrachloride	0.00598	4,830	6	0.569	2
Chloroethane	0.00499	0.00499	1	1,970	0
Chloroform	0.0474	15.9	3	0.478	1
Cyanazine	14,200	14,200	1	6.81	1
Ethylbenzene	0.000971 J	39.7	6	395	0
Iodomethane	0.00101 J	0.00101 J	1	NAV	0
m&p-Xylene	0.00177 J	142	7	461	0
o-Xylene	0.000824 J	119	6	413	0
Toluene	0.000952 J	0.00931	27	38	0
trans-1,2-Dichloroethene	0.00477	0.00477	1	3,070	0
Trichloroethene	0.0271	0.225	3	7.92	0
Vinyl chloride	0.0952	0.118	2	0.939	0

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Compound	Detected Concentration (mg/kg)		Number of Occurrences	Restricted Tier 1 TRG (mg/kg)	Number of Detections Exceeding TRG
	Minimum	Maximum			
SVOC					
bis(2-Ethylhexyl)phthalate	2.21	2.21	1	409	0
Metals					
Arsenic	0.597 J	295	35	11.8	5
Organochlorine					
Dinoseb	0.463	8,400	7	204	1
Toxaphene	0.12	939	20	5.2	9

J	Estimated value.
mg/kg	Milligram per kilogram.
NAV	Not available.
SVOC	Semivolatile Organic Compound.
TRG	Target Remediation Goal.
VOC	Volatile Organic Compound.

The purpose of the comparison to MDEQ Tier 1 TRGs is to ensure that potential corrective action (i.e., an engineered cap) will encompass all of the areas above these standards. Based on a review of the locations sampled, the preliminary limits of the proposed corrective action activities for soil have been defined horizontally and vertically. Figure 4 shows the preliminary areal extent of the proposed engineered cap.

ARCADIS conducted a review of the data presented above. The following observations were made: 1) based on frequency of occurrence, arsenic had the most detections; and 2) the maximum concentrations of arsenic, chloroform, cyanazine, dinoseb, and toxaphene exceeded the regulatory standards for these compounds. The following paragraphs discuss these observations and their implications for remediation.

Arsenic was detected in 35 samples. However, most of the arsenic results were below regulatory limits and/or background levels.

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For the sample locations investigated in 2007, arsenic, chloroform, cyanazine, dinoseb, and toxaphene maximum concentrations that exceed the regulatory standards or background concentrations were localized. High arsenic and toxaphene concentrations were observed in surface samples collected near former process or stockpile areas. The other compounds were measured at high concentrations in the SWMU 2 landfill. The concentration of chemicals detected in the SWMU 2 landfill is expected based on its historical use as a repository for the storm water pond sludges and other waste materials.

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5.2.2 Stabilization Sampling

In conjunction with the soil sampling activities, a stabilization study was conducted on soil samples collected from the site. The stabilization samples were collected from former process areas where spills and/or leaks could have occurred while the site was in operation. The purpose of the stabilization study was to determine the suitability of the soil material for in-place stabilization prior to the installation of an engineered cap over the areas of concern.

For the stabilization testing, soil samples were collected from the areas with the highest arsenic (S/S-01 0-2), dinoseb (S/S-14 0-2), and toxaphene (S/S-11 0-2) results reported in the 2007 stabilization sampling. These samples were submitted to Pace for Synthetic Precipitation Leaching Procedure (SPLP) testing. The results of the SPLP testing included in Tables 4 and 5 demonstrated that arsenic and dinoseb leached from the soil at concentrations of 0.591 milligram per liter (mg/L) and 0.972 mg/L, respectively. These concentrations exceed applicable groundwater standards for this site. The sample analyzed for toxaphene did not have any detectable toxaphene in the leachate (<0.002 mg/L); therefore, it was excluded from further analyses.

Further analysis conducted by ARCADIS' Treatability Laboratory in Durham, North Carolina, indicated that a significant amount of naturally occurring iron is present in the soil at the site. An iron and arsenic analysis was conducted on a sample obtained from the area with the highest arsenic concentrations measured during the 2007 sampling. This sampling was conducted in a former process area that used arsenic as a raw material. The results indicate approximately 26 times more iron than arsenic is present on a molar basis. Dzombak and Morel (1990, Surface Complexation Modeling) determined that a minimum molar ratio of 6:1 (iron:arsenic) was required to sorb mobile arsenic and account for competing surface reactions. Although the arsenic in this area is presently a solid and will be located just below the surface of an engineered cap, any mobilized arsenic is expected to be sequestered by the iron minerals in the soil.

Based on the dinoseb results, various percentages of activated carbon, Class C fly ash, and Portland cement were added to soil samples collected from the same areas where soil was collected for SPLP dinoseb analyses. The molded soil samples with added reagents were tested by Ardaman and Associates, Inc., a geotechnical laboratory located in Baton Rouge, Louisiana, for unconfined compressive strength (UCS) by ASTM International Method D2166 after 3 days of curing time. All of the soil samples exceeded the 8 pounds per square inch (psi) criterion established for the UCS testing. This criterion is based on the soil strength required to support the weight of an engineered soil cap.

Subsequent SPLP testing of the material remaining after the UCS testing indicated that more than one soil/reagent mixture would retard the leaching of dinoseb. The 2.5 percent activated carbon mixture would require the least amount of reagent of the reagents tested. Stabilization with this mixture will be proposed in a subsequent corrective action plan (CAP) document.

5.2.3 Solidification Sampling

In conjunction with the soil sampling activities, a solidification study was conducted on soil/sludge samples collected from the North Pond. The North Pond area, designated SWMU 23 in the RFI, is comprised of an unlined pond and the surrounding area located in the North Plant. This pond was used to neutralize acidic wastewater from the potassium nitrate production process. The neutralization was accomplished through the introduction of limestone into the pond water. Toxicity characteristic leaching procedure (TCLP) testing was performed on the pond sludge during the RFI in November and December 1993. The TCLP analysis determined that the sludge was nonhazardous. The purpose of the solidification study was to determine if the pond sludge was suitable for transport and consolidation into the SWMU 2 landfill. Once incorporated into the landfill, the material would have to be strong enough to support the weight of an engineered cap.

For the solidification testing conducted in 2007, a sludge sample (NP-SED) was collected from the bottom of the North Pond and analyzed for the site-specific list of CoCs by Pace. No concentrations were reported above MDEQ Tier 1 TRGs for restricted soil use. Based on the analytical results, subsequent solidification study testing focused on the strength of the material.

Initial strengths of the native pond sludge material could not be obtained because the material could not be molded for UCS testing. The pond sludge was amended with various percentages of Class C fly ash and Portland cement to impart strength to the

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material. After 3 days of curing time, UCS analyses were performed on the sludge/reagent mixtures. The results of the UCS testing indicated that all of the mixtures exceeded the 8-psi criterion established for the UCS testing. This criterion is based on the soil strength required to support the weight of an engineered soil cap once it is transported to the landfill for consolidation. The 15 percent fly ash and 5 percent Portland cement mixture would require the least amount of reagent. The cost of solidification with these two reagents will be compared during the preparation of the solidification work plan. The more economical reagent will be proposed for the solidification of the pond sludges in a subsequent document.

5.3 Storm Water

Storm water samples were collected from the 22 locations shown on Figure 21. All samples were submitted to the laboratory for analysis using the following SW-846 or USEPA-approved methods:

- VOCs by SW-846 Method 8260;
- Organochlorines by SW-846 Method 8081 (Pesticides) and 8151 (Herbicides);
- SVOCs by SW-846 Method 8270;
- Metals (Total and Dissolved) by SW-846 Method 6010;
- pH by USEPA Method 150.1;
- Total Dissolved Solids by USEPA Method 160.1;
- Total Suspended Solids by USEPA Method 160.2;
- Chloride by USEPA Method 325.3;
- Fluoride by USEPA Method 340.2;
- Ammonia by USEPA Method 350.1;
- Nitrate-Nitrite by USEPA Method 353.2;
- Phosphorous by USEPA Method 365.4;

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- Sulfate by USEPA Method 375.4;
- Biological Oxygen Demand (5-day) by USEPA Method 405.1; and
- Chemical Oxygen Demand by USEPA Method 410.1.

The storm water analytical data and associated QA/QC data are summarized in Tables 8 and 9. Several VOCs, SVOCs, organochlorines, metals, and general chemistry parameters were detected in storm water. The following table provides a range of concentrations for the compounds detected in storm water:

Compound	Detected Concentration (mg/L)		Number of Occurrences
	Minimum	Maximum	
VOCs			
Acetone	0.0144 J	0.0309 J	7
Bromodichloromethane	0.0132 J	0.0132 J	1
Bromoform	0.00187 J	0.00187 J	1
Carbon tetrachloride	0.00085 J	0.0273	5
Chloroform	0.00069 J	0.0494	6
Dibromochloromethane	0.0112 J	0.0112 J	1
Methylene chloride	0.0216 J	0.0323 J	11
Trichloroethene	0.00232 J	0.0425	6
SVOC			
bis(2-Ethylhexyl)phthalate	0.00882 J	0.0146	5
Metals			
Arsenic (Total)	0.00842 J	0.0434	18
Arsenic (Dissolved)	0.00583 J	0.0345 J	19
Organochlorine			
Dinoseb	0.0234*	0.6	3**
Toxaphene	0.00691	0.00691	1
General Chemistry			
Chemical Oxygen Demand	6	71	22
Chloride	16.4 J	146 J	22

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Compound	Detected Concentration (mg/L)		Number of Occurrences
	Minimum	Maximum	
Fluoride	0.16	1.1	16
Nitrate-Nitrite	0.555	529	16
Nitrogen (Ammonia)	0.102 J	535 J	15
pH	6.37 s.u.	9.72 s.u.	22
Phosphorous	0.117	9.26	20
Sulfate	1	40.6	6
Total Dissolved Solids	80	1440	22
Total Suspended Solids	4	224	20

* Because the minimum detected concentration was qualified as rejected, this value represents the lowest useable detection.
** This value represents the total number of dinoseb detections deemed useable. An additional five detections were qualified as rejected during the data validation process.
J Estimated value.
mg/L Milligram per liter.
s.u. Standard units.
SVOC Semivolatile Organic Compound.
VOC Volatile Organic Compound.

All of the detected storm water concentrations are shown on Figures 22 through 24. The reported concentrations will be compared to regulatory limits once established by MDEQ for this site.

In accordance with the procedures presented in the QAPP, storm water samples were collected from various sheet flow locations, sumps, SWMU 3 impoundments, and the storm water outfall. The samples were collected during a storm water event of sufficient intensity and duration to collect representative samples. Pyrex dippers and disposable polyethylene bailers were used in the collection of storm water samples. Once filled, the containers were properly sealed, labeled, and placed in an ice bath within an insulated cooler.

QA/QC samples were collected during the storm water sampling. Duplicate samples were collected using the same collection techniques as conducted on the parent sample. Trip blank, field blank, and equipment rinsate samples were prepared in accordance with the QAPP and Work Plan. All of the storm water and QA/QC samples were containerized and transported to the laboratory in sealed coolers under proper chain-of-custody procedures.

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5.4 Groundwater

In 2007, groundwater samples were collected from 41 monitor wells, temporary wells, and piezometers. All samples were submitted to Pace for analysis using the following USEPA SW-846 approved methods:

- VOCs by Method 8260;
- Organochlorines by Method 8081 (Pesticides) and 8151 (Herbicides);
- SVOCs by Method 8270; and
- Metals (Total and Dissolved) by Method 6010.

The 2007 groundwater analytical data and QA/QC data are summarized in Tables 10 and 11. Several VOCs, SVOCs, metals, and/or organochlorines were detected in groundwater. The data were validated in accordance with the QAPP. All of the detected groundwater concentrations are shown on Figure 25.

Groundwater sample results were compared to MDEQ Tier 1 TRGs. However, when the TRG was less than the laboratory quantitative reporting limit (RL), the RL was used as the screening value. The RL was used as the comparison value because it is a quantitative value based on the low standard in the calibration curve. The laboratory was instructed to report values between the method detection limit (MDL) and the RL as an estimated concentration. The MDL is a statistical calculation to determine the lowest value that the analytical instrument can theoretically detect. Therefore, the MDL is not as reliable as the RL for determining quantitative values. The comparisons made in the table below are based on the RL. The MDLs are listed in the analytical reports contained in Appendix F. The groundwater concentrations that exceed MDEQ Tier 1 TRGs are shown on Figure 26. A summary of pertinent data for the compounds detected in groundwater in 2007 is provided in the table below:

Compound	Detected Concentration (mg/L)		Number of Occurrences (41 Total Locations)	Tier 1 TRG (mg/L)	Number of Detections Exceeding TRG
	Minimum	Maximum			
VOCs					
1,1,1,2-Tetrachloroethane	0.00158 J	0.00158 J	1	0.005*	0
1,1,2-Trichloroethane	0.00124 J	0.122 J	3	0.005	2

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Compound	Detected Concentration (mg/L)		Number of Occurrences (41 Total Locations)	Tier 1 TRG (mg/L)	Number of Detections Exceeding TRG
	Minimum	Maximum			
1,1-Dichloroethane	0.00317 J	0.0224 J	2	0.798	0
1,1-Dichloroethene	0.00089 J	0.00089 J	1	0.007	0
1,2-Dichloroethane	25.2	25.2	1	0.005	1
1,2,4-Trimethylbenzene	0.201	0.201	1	0.0123	1
1,3,5-Trimethylbenzene	0.0764	0.0764	1	0.0123	1
2-Butanone	0.0697	0.0697	1	1.91	0
Acetone	0.0234	0.0344	3	0.608	0
Benzene	0.00061 J	0.00096	2	0.005	0
Bromodichloromethane	0.0132	0.124	2	0.005*	2
Bromoform	0.0009 J	0.171	3	0.00848	2
Carbon Tetrachloride	0.00066	17.2	3	0.005	2
Chloroform	0.00066 J	11.2	13	0.005*	7
Dibromochloromethane	0.00863	0.07 J	2	0.005*	2
Ethylbenzene	0.134	0.134	1	0.7	0
m&p-Xylene	0.139	0.139	1	12.2	0
Methylene chloride	0.00161	0.00161	1	0.005	0
o-Xylene	0.0671	0.0671	1	12.2	0
Tetrachloroethene	0.00168 J	0.0018	2	0.005	0
Trans-1,2-Dichloroethene	0.00466	0.00466	1	0.1	0
Trichloroethene	0.00256 J	0.15 J	6	0.005	5
Vinyl Chloride	0.00387	0.00387	1	0.005	0
SVOCs					
Acetophenone	0.00382 J	0.00382 J	1	0.01*	0
Atrazine	0.223	0.223	1	0.01	1
bis(2-Ethylhexyl)phthalate	0.0105	0.0106	2	0.01*	2
Pentachlorophenol	0.0101 J	0.0203	3	0.01*	3
Metals					
Arsenic (Total)[MCL]	0.0154	0.415	38	0.05	29
Arsenic (Dissolved) [MCL]	0.00748	0.366	35	0.05	24

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Compound	Detected Concentration (mg/L)		Number of Occurrences (41 Total Locations)	Tier 1 TRG (mg/L)	Number of Detections Exceeding TRG
	Minimum	Maximum			
Organochlorine					
Dinoseb	0.00883	14.4	8	0.007	8

*Screening value used is the Reporting Limit.
J Estimated value.
MCL Maximum contaminant level. Note: While the Mississippi Department of Environmental Quality Tier 1 TRG for arsenic is 0.05 mg/L, the U.S. Environmental Protection Agency mandated MCL for arsenic is 0.01 mg/L. The arsenic evaluation presented in this document uses the MCL as the limiting standard. When compared to the MCL, six arsenic results reported for the 2008 groundwater sampling event exceeded the MCL.
mg/L Milligram per liter.
SVOC Semivolatile Organic Compound.
TRG Target Remediation Goal.
VOC Volatile Organic Compound.

Several samples were analyzed at dilutions due to elevated concentrations of one or more compounds. The non-detect compounds were reported at the lowest technically achievable RL. However, some of the compounds were reported from the dilutions resulting in elevated non-detect values. The elevated detection limits primarily occurred in Wells MW-12C and PZ-22B.

ARCADIS conducted a review of the 2007 groundwater data. The following observations were made: 1) based on frequency of occurrence, arsenic is potentially the most widespread contaminant in groundwater at the facility; 2) a comparison of the analytical results for carbon tetrachloride, chloroform, and dinoseb to their Tier 1 TRG values indicates that the maximum sample results greatly exceeded their respective regulatory levels; and 3) common laboratory contaminants acetone, methylene chloride, bis(2-ethylhexyl)phthalate, and toluene were detected in some samples. The following paragraphs discuss these observations and their implications for remediation.

Thirty-nine total arsenic and 38 dissolved arsenic samples were collected from the monitor wells, permanent piezometers, and temporary piezometers. Of the 77 samples analyzed for arsenic, only 11 samples (4 total and 7 dissolved) had concentrations below the USEPA maximum contaminant level (MCL) of 0.01 mg/L. These arsenic samples were analyzed by USEPA SW-846 Method 6010. Figure 27 shows the extent of arsenic occurring above the USEPA MCL.

The analytical results indicated several wells (MW-10C, MW-12C, PZ-20B, and PZ-22B) did report concentrations for carbon tetrachloride, chloroform, and dinoseb

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that exceeded the TRG for each of these compounds. Due to the levels of the exceedances, ARCADIS developed an isoconcentration map for these compounds. As shown on Figure 28, the lateral extent of the highest concentrations of these contaminants is confined to two areas.

Acetone, bis(2-ethylhexyl)phthalate, methylene chloride, and toluene were reported in some samples at levels above their TRGs. However, these compounds were also detected in various QA/QC samples. In addition, all four of these compounds are considered common laboratory contaminants. Due to the problems with the QA/QC samples for these compounds, the concentrations that were reported are not considered valid exceedances of the TRG. Further discussions of the data validation conducted on these results and the usage of these data are included in Section 8.6.

In March 2008, a second set of groundwater samples was collected from the wells installed during the RFI. The samples were sent to Pace for analysis. A review of the arsenic data from the 2Q07 sampling indicated some inconsistencies in concentrations based on historical site operations. Therefore, arsenic was analyzed by the newer Method 6020 for the 2008 sampling. Method 6020 was used to minimize potential interference with quantitation of arsenic in groundwater. All of the other analytical procedures were the same as the 2007 sampling. Six wells were sampled for arsenic only. Samples from 21 wells were analyzed for the complete list of CoC presented in Section 5. The sample results from the 2008 sampling effort are included in Tables 10 and 11 and shown on Figures 29 and 30.

Another difference between the 2007 and 2008 sampling was a change in sampling procedures. The 2007 groundwater samples were collected using well pumps and bailers. Low-flow sampling procedures were utilized to collect the 2008 samples. The groundwater samples collected in 2008 followed the procedure outlined in the QAPP for low-flow sampling.

The purpose of this sampling event was to determine the representativeness of the 2007 data. Most of the sample results reported for the 2008 sampling event were similar to the concentrations measured in 2007. The greatest decreases in concentration were reported for Well MW-12C. In 2007, carbon tetrachloride, dinoseb, and trichloroethene were reported at concentrations of 17.2, 14.4, and 0.15 J mg/L for MW-12C. In 2008, carbon tetrachloride, dinoseb, and trichloroethene were reported at concentrations of 9.14, 3.17, and 0.0295 J mg/L for the duplicate sample for MW-12C. Lower values were reported for the parent samples. Groundwater modeling and the evaluation of remedial options were conducted using the 2007 data because these data are more conservative than the 2008 data.

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5.5 Surface Water and Sediments

Surface water and sediment samples were not collected by ARCADIS. USEPA contracted the collection of surface water and sediment samples from Stouts Bayou and Hennesseys Bayou in 2005. From March 28, 2005, to April 2, 2005, USEPA's Superfund Technical Assessment and Response Team collected surface water and sediment samples from Stouts Bayou, Hatcher Bayou, Hennesseys Bayou, and unnamed tributaries in the vicinity of the site. ARCADIS was provided with a copy of the March 21, 2005, "Site-Specific Sampling Plan" and laboratory data. ARCADIS has used these data under the assumption that the data are appropriate, valid, and usable for characterization of these water bodies.

A table of the constituents that were reported above detection limits during the USEPA sampling is included in Appendix D. Also included in Appendix D are copies of surface water and sediment sample location descriptions from the USEPA work plan and copies of the analytical report pages provided to ARCADIS.

To determine if concentrations of CoC detected in surface water or sediments constitute a current release and to determine the potential for any human health effects, a screening evaluation of surface water and sediment sampling results was conducted using conservative MDEQ Tier 1 TRGs, USEPA Water Quality Criteria, and background comparisons.

For comparison purposes, surface water data were conservatively compared to MDEQ Tier 1 groundwater TRGs which are drinking water standards. It is not likely for surface water at this site to be used for drinking water and the site is not designated by MDEQ as a surface water drinking water source. Based on a comparison of the USEPA (2005) surface water results with MDEQ Tier 1 TRGs for groundwater, no CoC exceeded screening levels (Table D-1). Additionally, surface water results were all less than available USEPA (2006) Water Quality Criteria (consumption of organism only).

USEPA (2005) sediment results indicated that concentrations of 4,4'-DDT (4.2 J micrograms per kilogram [µg/kg]) and 4,4'-DDE (3.7 J µg/kg) were detected at background location VC-SD-01 (Table D-2). Similar concentrations of 4,4'-DDT (4.2 J µg/kg) and 4,4'-DDE (1.9 J µg/kg) were also observed at downstream sample location VC-SD-06 . Dinoseb was detected only once in sediments and at a low concentration (0.023 JN µg/kg) (Table D-2). An isolated detection of a PCB (Aroclor 1254) was detected at location VC-SD-08 at a concentration of 140 J µg/kg. However, PCBs are not site-related and the detection is likely indicative of the

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ubiquitous nature of this class of compound. Although the highest concentration of lead (32 J mg/kg) occurred at downstream sample location VC-SD-06, this concentration was comparable to the 31 J mg/kg detected in background location VC-SD-01. Total mercury concentrations of 0.19 mg/kg and 0.14 mg/kg were detected at VC-SD-06 and VC-SD-08, respectively. These concentrations of mercury are likely representative of higher mercury concentrations in the loess geologic unit and are associated with agricultural use in the Mississippi Delta region (MDEQ 2005. Solid-phase geochemical survey of the State of Mississippi; an atlas highlighting the distribution of As, Cu, Hg, Pb, Se, and Zn in stream sediments and soils.). Similarly, the arsenic concentration of 8 mg/kg at VC-SD-08 is likely representative of higher arsenic concentrations in loess agricultural belt deposits of the Delta region. However, this arsenic concentration is below the site-specific arsenic 95 percent upper confidence limit concentration of 11.8 mg/kg used as the regulatory standard. Based on a comparison of the USEPA (2005) sediment results with MDEQ Tier 1 TRGs for soil (unrestricted), no CoC exceeded screening levels (Table D-2).

Stouts Bayou would not be considered a major fishing area because it is shallow and ephemeral in nature. It does not support an abundance of large fish although young (small) individuals of larger species may be present. Results of the screening assessment of USEPA (2005) surface water and sediment data do not indicate a significant release and concentrations detected are either below MDEQ and/or USEPA screening levels or below background levels. Additionally, no site-related CoC were identified in the surface water and sediment samples that would be considered to be bioaccumulative constituents. Therefore, significant food chain exposure would not be expected. The surface water and sediment data are evaluated in Appendix D to determine the potential for ecological effects.

Based on the above review of the data, it is concluded that the activities proposed for this site will mitigate conditions that may adversely impact the surrounding environment.

5.6 Non-Aqueous Phase Liquids

Non-aqueous phase liquids were not encountered during groundwater sampling conducted by ARCADIS.

5.7 Biological Samples

Biological sampling was not conducted during the RFI or in 2007.

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6. Contaminant Fate and Transport

6.1 Potential Migration Routes

Primary sources of site contamination as identified in the BSCEM are historical operations and waste management units (Appendix E). This is consistent with the contaminant concentrations depicted on the isoconcentration maps. The conceptual understanding of how contaminants spread at the site is that, during the course of operations, releases occurred to soil. Contaminants migrated downward through the soil until they encountered the groundwater table. Based on the potentiometric maps included as Figures 6 and 7, groundwater at the site flows easterly toward Stouts Bayou. Natural groundwater head differences in the subsurface led to the spreading of contaminants in the subsurface.

6.2 Contaminant Characteristics

The CoC detected above MDEQ Tier 1 TRG concentration limits are arsenic, atrazine, bromoform, bromodichloromethane, carbon tetrachloride, chloroform, dibromochloromethane, dinoseb, pentachlorophenol, toxaphene, 1,1,2-trihloroethane, trichloroethene, 1,2,4-trimethylbenzene, and 1,2,5-trimethylbenzene. Of these compounds, arsenic, carbon tetrachloride, chloroform, dinoseb, and toxaphene have the highest concentrations and are the most widespread at the site. The following paragraphs provide information on the most widespread CoC.

Arsenic (Chemical Abstract Service [CAS] #7740-38-2) is an inorganic metal with an atomic weight of 74.9 grams per mole (g/mol). It is a suspected carcinogen that has the ability to contaminate groundwater. Arsenic occurs in natural systems in the +3 (arsenite) and +5 (arsenate) valence states depending on pH and reduction/oxidation conditions. Arsenite is more mobile and toxic than arsenate. Due to its solubility, arsenic was measured in groundwater on a total and dissolved basis. Sorption of arsenic in the subsurface is affected by the presence and concentration of iron, aluminum oxides, and clays.

Carbon tetrachloride (CAS #56-23-5) is a colorless chlorinated solvent that is a suspected carcinogen. It has an atomic weight of 153.8 g/mol. Carbon tetrachloride has a solubility of 805 mg/L of water and is considered slightly soluble. This solvent is a relatively stable chemical that degrades slowly under abiotic conditions; however, it is subject to biodegradation processes. It has a soil organic carbon sorption coefficient (K_{oc}) of 71. This indicates that is moves readily through soil. Carbon tetrachloride has a low bioconcentration factor and is not expected to significantly bioconcentrate.

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Chloroform (CAS #67-66-3) is a colorless chlorinated solvent that is a suspected carcinogen. It has an atomic weight of 119.4 g/mol. Chloroform has a solubility of 8,220 mg/L and is considered to be a soluble compound. It has a K_{oc} of 45; therefore, it is expected to readily move through soil. It is a by-product of the degradation of carbon tetrachloride. Chloroform has a low bioconcentration factor and is not expected to significantly bioconcentrate.

Dinoseb (CAS #88-85-7) is a phenolic herbicide. It is a liquid with a molecular weight of 240.2 g/mol. Dinoseb has a solubility of 52 mg/L and a K_{oc} of 120 to 124. Therefore, it is expected to readily move through soil. Dinoseb has a half-life in sunlight of 14 to 18 days. Dinoseb has a bioconcentration factor of 3.2 and is not expected to significantly bioconcentrate.

Toxaphene (CAS #8001-35-2) is a waxy, amber organic solid pesticide. It has a molecular weight of 414 g/mol. Toxaphene has a low solubility in water (3 mg/L). It has a low potential of leaching from soil. Bioconcentration of toxaphene is of significant concern.

6.3 Contaminant Migration

Contaminant migration through the soil is primarily in the vertical direction with some lateral spread due to dispersion. Upon contact with groundwater, the contaminants migrated laterally primarily in the direction of natural groundwater flow. Groundwater modeling efforts (see Section 6.3.2) revealed potential groundwater/contaminant flow-lines. Due to heterogeneities in the subsurface environment, the depicted groundwater/contaminant flow-lines are not linear. Along the predicted flow-lines, migrating contaminants leave the site at the eastern property boundary and empty into Stouts Bayou and Hennesseys Bayou. Stouts and Hennesseys bayous are the eastern and southern site boundaries, respectively. The contents of both of these bayous ultimately empty into the Mississippi River.

6.3.1 Factors Affecting Contaminant Migration

The predominant factor affecting contaminant migration at this site is site geology. The permeable layer where contaminants are located is predominantly composed of loess material. While loess is a permeable material, it generally has low organic carbon content and therefore less sorptive capacity. In addition, located throughout the loess are deposits of low permeable material. In these areas, the soil retards and causes redirection of groundwater flow. Cross-sectional maps depicting the subsurface are included as Figures 8 through 16 in this report.

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Hydrostatic head was measured within the well network. Potentiometric maps were developed using these data (Figures 6 and 7). Based on the potentiometric maps, groundwater movement is in an easterly direction toward Stouts Bayou. This groundwater flow direction was duplicated in the groundwater modeling effort described below.

6.3.2 Groundwater Modeling

A groundwater model was developed using public domain MODFLOW (McDonald and Harbaugh 1988) and MT3DMS (Zheng 1999) codes. These codes provide a numerical solution for the simulation of groundwater flow and solute (i.e., CoC) transport. The models incorporated site-specific data (geologic, hydrogeologic, chemical properties, and boundary conditions) obtained from areas of impacted groundwater into these codes. The groundwater model simulated the fate and transport of arsenic, carbon tetrachloride, chloroform, and dinoseb concentrations measured in 2007. The results of the model's 50-year simulation are discussed in detail in Appendix G.

Monitored natural attenuation (MNA) after the installation of an engineered cap (a common element of all remedial options explored) was considered a base case. In addition, the effect of upgradient and downgradient barrier walls with and without groundwater recovery was simulated.

MNA, as simulated in the model, analyzed the flow and transport of CoC in groundwater. In addition, a degradation component was added to simulate the degradation of carbon tetrachloride to chloroform. The MNA scenario was evaluated as a part of Remedial Option 1.

Two upgradient vertical barrier scenarios were analyzed. In one scenario, the barrier was designed to be constructed of a low permeability material. This barrier, a slurry wall, was installed to the depth of the Byram Marl. The purpose of this scenario was to simulate the redirection of groundwater away from contaminated areas in the South Plant instead of through areas of known contamination. The second upgradient vertical barrier wall design added recovery wells to the first scenario. The recovery wells were placed to the northwest of the barrier to control groundwater mounding in the vicinity of the barrier. Neither of these upgradient scenarios prevented CoC migration to Stouts and Hennesseys bayous. The upgradient vertical barrier wall scenario was not considered in the development of the remedial options because the downgradient scenario presented below was more efficient at achieving hydraulic control of the CoC.

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Two downgradient vertical barrier scenarios were analyzed. The first downgradient scenario was similar to the first upgradient vertical barrier scenario; however, the slurry wall was placed to retard the flow of CoC to Stouts and Hennesseys bayous. This scenario did not prevent CoC migration to the bayous. The second downgradient slurry wall scenario incorporated a recovery trench into the downgradient slurry wall. When the trench was operated at a groundwater recovery rate of 6 gallons per minute, the calculated maximum sustainable groundwater recovery rate based on the formation, on-site containment of site CoC was achieved. In addition to the physical removal of impacted groundwater, the MT3DMS model simulated degradation of carbon tetrachloride to chloroform. Chloroform was not manufactured or brought to the site; therefore, the presence of chloroform without a known source in the presence of carbon tetrachloride indicates that chloroform may be naturally degrading in the subsurface. A degradation rate was calculated using historical carbon tetrachloride and chloroform data obtained in the RFI process. Based on the degradation and long-term operation of the trench, carbon tetrachloride and chloroform will be remediated under this scenario.

The downgradient vertical barrier wall with groundwater recovery provided the best performance of the modeled scenarios by preventing CoC from reaching the surface water bodies adjacent to the south and southeast property boundaries. The downgradient vertical barrier wall scenario was evaluated as a part of Remedial Option 3.

7. Identification of Potential Receptors

7.1 Receptors

Groundwater at the site is not used for drinking water purposes. Humans are potential on-site receptors for soil contamination; however, areas of soil contamination may be overlain with an engineered cap to prevent contact. Stouts Bayou and Hennesseys Bayou are potential off-site receptors. According to the State of Mississippi's June 23, 2003, *Water Quality Criteria for Intrastate, Interstate and Coastal Waters* document, Stouts Bayou and Hennesseys Bayou in the vicinity of the site are not included in any of the named basins. *Section IV. Designated Uses in State Waters* states that "All of the State waters not specifically listed below shall be classified as Fish and Wildlife." The fish and wildlife classification indicates these waters:

> …are intended for fishing and for propagation of fish, aquatic life, and wildlife. Waters that meet the Fish and Wildlife Criteria shall also be suitable for secondary contact recreation. Secondary contact

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recreation is defined as incidental contact with the water during activities such as wading, fishing and boating, that are not likely to result in full body immersion.

The ultimate receptor of waters from Stouts Bayou and Hennesseys Bayou is the Mississippi River.

7.2 Potential Risk

The major potential risk posed by the contamination is off-site migration. Off-site migration could cause uncontrolled contaminant exposure to receptor populations. While the magnitude of exposure to individual organisms would be difficult to measure, it should be noted that the potential of some site CoC to bioaccumulate can magnify the risk.

8. Quality Assurance Results

8.1 Key Personnel

Key personnel involved in the implementation of site activities include the Project Manager, Task Manager, Health and Safety Officer, and Field Supervisor. The Project Manager has overall responsibility for the successful completion of the project. The Task Manager is in charge of administration of the work and the completion of individual tasks. The Task Manager reports directly to the Project Manager. The Site Health and Safety Officer, or designee, is responsible for overseeing the health and safety program at the site. This position can be combined with that of the Field Supervisor. The Field Supervisor is responsible for the conduct of site activities.

8.2 Quality Assurance Objectives for Data

QA objectives for data include precision, accuracy, representativeness, comparability, and completeness. These criteria were defined in Section 3.2 of the QAPP.

8.3 Sample Control and Field Records

Sample control included the use of proper sample identification techniques, sample chain-of-custody procedures, and the completion of field records. The containerized samples and chain-of-custody documents remained with the sampling personnel until the samples were ultimately relinquished to the laboratory. Sample control activities

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were performed in accordance with the procedures contained in Section 10 of the QAPP.

The documentation of field procedures included using a field logbook and/or daily logs, field sampling logs, instrument calibration logs, and data forms as necessary to provide sufficient information to allow review of field conditions and sample collection, evaluate potential impacts to sample and data integrity, and enable reconstruction of events that occurred during the field operations when necessary. The documentation of field activities was performed in accordance with the procedures contained in Section 10 of the QAPP. These records are kept on file in ARCADIS' Baton Rouge, Louisiana, office.

8.4 Analytical Procedures

The analytical methods used by the laboratory included: VOCs by SW-846 Method 8260, Organochlorine Pesticides by SW-846 Method 8081, SVOCs by SW-846 Method 8270, and Metals by SW-846 Method 6010 or 6020. In addition, leaching tests were conducted by SPLP in accordance with SW-846 Method 1312. SPLP was conducted to determine the leachability of arsenic, dinoseb, and toxaphene from on-site soil. These analytical methods were specified in the QAPP.

8.5 Laboratory QA/QC

Laboratory QA/QC sampling defined in the QAPP was conducted by Pace. An evaluation of the results of the laboratory QA/QC samples is presented in Section 8.6.

8.6 Data Validation and Reporting

The QAPP for the Vicksburg Chemical site requires validation of 10 percent of the Sample Delivery Groups (SDGs). One storm water and one soil data package were selected for validation to include all of the methods performed including conventional chemistry parameters. Pace conducted all of the analyses. The full validation reports are included in Appendix F. The Level II validation included review of sample documentation, data package completeness, sample receipt information, chain-of-custody conformance, RLs relative to the project requirements, holding time compliance, laboratory and/or field blank contamination, laboratory control sample (LCS) and matrix spike (MS) precision and accuracy, surrogate recoveries, and field duplicate reproducibility. Case narratives were reviewed to evaluate method performance issues and/or observations encountered and documented by the laboratory relative to data usability. Additional Level I validation was conducted due to

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observed detections of common laboratory contaminants in some of the QC samples and field samples. The Level I validation included review of data package completeness, holding time compliance, associated field and laboratory blank results, and the report narratives including laboratory notated data quality flags. Five SDGs were evaluated under Level I assessment criteria. Data were qualified during the validation using guidelines established in the USEPA National Functional Guidelines modified to incorporate method- and project-specific requirements and professional judgment.

USEPA-approved methods were utilized for all preparations and instrumental analyses. The laboratory reported values less than the quantitative RL as estimated values for all parameters with the exception of toxaphene, atrazine, and cyanazine. An MDL study had not been completed for these compounds to allow reporting below the low calibration standard. LCS analysis is not applicable to toxaphene. The following general deficiencies were identified during the validations. All were considered to be minor except for the dinoseb method performance.

- The aqueous MDLs are greater than the Tier 1 TRGs for acetophenone, bromodichloromethane, chloroform, dibromochloromethane, 4-nitrophenol, and pentachlorophenol;
- Acetone, methylene chloride, bis(2-ethylhexyl)phthalate, and toluene were qualified as non-detect in several samples as a result of blank contamination;
- Several samples were qualified as estimated due to:
  - slightly out of control surrogate, MS, or LCS recoveries,
  - high relative percent differences between parent and field duplicate samples,
  - holding time exceedances for re-analyses, and
  - high percentage differences between total and dissolved metals results;
- Dinoseb was rejected in several samples due to significant deficiencies associated with LCS performance and MS recoveries and holding time exceedance for re-extractions;
- Pentachlorophenol and dissolved arsenic were qualified as estimated due to elevated relative percent difference between the field sample and field duplicate.

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The majority of the identified deficiencies are considered minor and resulted in qualification as estimated or non-detect. Where QC deficiencies indicated a system performance problem, a broader review of QC data was conducted. This was applicable to the dinoseb analyses performed for all samples included in this report.

Dinoseb in general is an extremely poor performer by Method 8151. The inability to recover and quantitate this compound is exhibited in erratic spike recoveries and elevated precision. Utilizing Method 8270 was not an available option because the reporting and detection limits are significantly greater than Method 8151. The initial validation revealed LCS recoveries of 0 percent with erratic MS recoveries. Therefore, all of the QC data associated with the dinoseb analyses performed during the initial sampling events were evaluated. One rinsate blank was analyzed at a 10 times dilution due to laboratory-reported matrix interference in the determination of dinoseb. Problems with analysis of this compound in relatively clean samples confirms the poor analytical performance and ability to detect and quantify dinoseb. Appropriate qualifiers have been appended to the data tables to reflect the usability of the data.

The following qualifiers were applied to analytical results during the validation process:

J The analyte was identified, but the associated numerical value is an approximate concentration because the value is less than the quantitative value, matrix interference, or minor QC deficiencies associated with method performance.

UB Compound/analyte considered non-detect at the listed value due to associated blank contamination.

UJ The analyte was not detected above the RL; however, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The result is rejected due to serious deficiencies in the ability to analyze the sample and meet QC criteria, and the presence or absence of the analyte cannot be verified.

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As a result of the validation performed, the soil, groundwater, and storm water data are considered to be usable for the intended purpose as qualified during the data quality evaluation.

9. Summary and Conclusions

Previous investigative activities were conducted at the site by URS as part of the RFI process. There are 34 named SWMUs at the facility. Soil and groundwater were investigated for most SWMUs; however, some were only inspected. The monitor well network presently in place at the site was installed during the SWMU investigations. The RFI Report presents the delineated soil and groundwater plumes located throughout the facility.

In order to define the area required to be evaluated, the data presented in the RFI Report and supporting SWMU reports were compared to MDEQ Tier 1 TRGs for restricted property use. Based on the data review, additional soil samples were collected to determine the horizontal and vertical limits of on-site impacts. In addition, groundwater sampling was conducted during the first half of 2007 to verify CoC concentrations reported in the 2001 RFI Report.

The information contained in the URS reports was relied on as accurate and valid. The delineation sampling program implemented in the first half of 2007 was based in part on the data contained in the RFI Report. In particular, depictions of soil contaminant plumes shown on Figure 18-6, “Overview of Site-Wide Soil Contamination”, were relied on to determine the placement of delineation soil samples.

9.1 Results Summary

Based on a review of the data, the areal extent of the CoC plumes was defined. Figures 2, 3, 21, and 25 show the locations where ARCADIS conducted sampling in 2007. It should be noted that the sampling efforts described in this report were not intended to duplicate the RFI sampling. These sample points were advanced to confirm and further define the extent of soil contamination as defined in the RFI. In addition to collecting soil samples, borings were advanced to determine the elevation of the first encountered site-wide confining layer, the Byram Marl, and define the area of the potential soil cap. Plume isoconcentration maps based on the 2007 sampling for soil CoC that exceeded restricted soil use Tier 1 TRGs are shown on Figure 20. Figure 20 also shows the boundaries of the proposed soil cap as defined by the soil sampling conducted in 2007.

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The wells and piezometers installed during the RFI were sampled to determine existing conditions. Based on the sample results, a second groundwater sampling event using temporary wells was conducted in 2007 to define the groundwater plumes. Groundwater concentrations that exceeded Tier 1 TRGs during the 2007 monitor well, piezometer, and temporary well sampling events are shown on Figure 26. A Byram Marl structure map is included as Figure 17. The Byram Marl layer is considered a confining layer. No known site CoC were detected within this layer. A groundwater sampling event was conducted in March 2008 to compare to the groundwater sampling results reported in 2007. Results of the 2008 sampling indicated that the groundwater concentrations reported for 2007 and 2008 were similar in the magnitude and frequency of occurrence of CoC at the site. However, arsenic concentrations measured in 2008 were less widespread than in 2007. This was due in part to the change in sampling methodology.

F I N A L

9.1.1 Nature and Extent of Contamination

Soil, storm water, and groundwater sampling was conducted to evaluate site conditions resulting from historical chemical manufacturing operations. Contamination detected on site is located in surface soil. Downward and lateral migration of CoC has occurred through the subsurface. Groundwater at the site is hydraulically connected to Stouts Bayou and Hennesseys Bayou. Therefore, the potential exists for unauthorized discharges from the site into these waterways. Due to the presence of CoC in surface soil, storm water has the potential to be exposed to, and transport, contaminants over land. Storm water discharges from the site by sheet flow into Stouts Bayou and Hennesseys Bayou. These bayous ultimately empty into the Mississippi River.

9.1.2 Contaminant Fate and Transport

Soil contamination resulting from historical operations migrated downward until encountering the groundwater surface. Lateral migration of soil contamination is not expected. Under the present conditions, groundwater contamination will continue to migrate laterally toward the eastern site boundary, Stouts Bayou, due to the predominant subsurface hydraulic gradient.

9.1.3 Identified Receptors/Risk

A receptor evaluation was conducted. Receptors for this site include humans, wildlife, and surface water bodies. Contaminant exposure to each of these receptors is discussed below.

Contamination is located in on-site soils and groundwater. Areas that contain surface soil contamination are predominantly located in the South Plant. These areas will be covered by an engineered cap to prevent exposure of CoC to humans or transient wildlife receptors. The cap will also be designed to prevent rainfall infiltration. The use of groundwater at this site from the first groundwater-bearing zone will be restricted. This will also prevent human and wildlife exposure to harmful CoC concentrations. The groundwater beneath the site that is bounded vertically by the Byram Marl structure is not used as a source of drinking water. Public drinking water for the City of Vicksburg is obtained from wells located in the Mississippi River Valley Alluvium aquifer approximately 80 to 120 ft bls.

The site is bordered to the east and south by Stouts Bayou and Hennesseys Bayou, respectively. These surface water bodies are not classified as drinking water sources in the State of Mississippi's June 27, 2003 *Water Quality Criteria for Intrastate, Interstate and Coastal Waters* document. The potential exists for CoC located in groundwater to migrate to these surface water bodies. As discussed in Section 6.3.2 (Groundwater Modeling), the use of a vertical barrier with a recovery trench can be used to prevent CoC from migrating to the bayous.

9.2 Conclusions Derived from Site Characterization

9.2.1 Conclusions/Recommendations

There are on-site CoC concentrations above restricted MDEQ Tier 1 TRGs for soil and groundwater as reported in the RFI. Soil sampling conducted in 2007 confirms the boundaries of areas that exceed restricted Tier 1 TRGs. Sampling conducted in 2007 and 2008 confirms the continued presence of CoC concentrations in the groundwater that exceed Tier 1 TRGs.

Based on the above-stated conclusions, it is recommended to conduct remedial actions at the site to protect human health and the environment. The following courses of action are recommended:

- Develop a strategy to address soil and groundwater contamination above MDEQ Tier 1 TRGs;
- Install an engineered cap over a portion of the South Plant area to prevent receptor exposure;

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- Address the soil piles located in SWMU 20 and sludge located in the North Pond during remedial activities. The data contained in the RFI will be considered an accurate and valid representation of the material contained within the soil piles. Data generated for the North Pond in 2007 will be used to develop a work plan to solidify the pond sludge; and

- Evaluate the on-site well network to ensure that it will adequately monitor the site during and after remedial actions have been completed.

9.2.2 Data Limitations

Due to the impracticality of sampling the entire site at all depths, sample locations were selected to represent the localized soil, storm water, and/or groundwater concentrations within a specific area. While the data generated during sampling and analysis efforts only represent conditions within the sample aliquot, extrapolations of the sample concentration data were made to present a more useful depiction of the locations of contaminated areas at the site. These extrapolations of the data are assumed to be representative of the area surrounding each sample point and sufficient for characterization purposes. In order to limit the effects of the error inherent in a representative sampling program on remedial activities, confirmatory sampling will be conducted as necessary to validate the assumptions made during data analysis.

10. Remedial Action Evaluation

Due to the varied media impacted by site CoC, remedial actions will consist of an appropriate combination of remedial technologies for each area. The technologies included in this evaluation are MNA, source removal, soil capping, soil solidification/stabilization, in-situ remediation (air sparging, chemical oxidation, etc.), regrading of the on-site landfill, and vertical barrier walls.

All of the remedial options presented below are predicated on the completion of the following activities prior to implementation:

- An engineered cap will be installed in the South Plant to prevent receptor exposure to CoC concentrations located in surface soil. The cap will be designed to prevent storm water infiltration, contaminant release, and erosion of the cap; and

- An institutional control will be implemented on the property to regulate the use of groundwater contained in the water bearing unit located above the Byram Marl structure.

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The main criterion used to evaluate whether a remedial option was considered successful was the ability of that option to prevent exposure of CoC concentrations above MDEQ Tier 1 TRGs for restricted use to human and ecological receptors. The BSCEM shows the exposure pathways targeted by the remedial options discussed below.

10.1 Remedial Option 1 (MNA)

This remedial option involves placement of an engineered cap over the area shown on Figure 4. The cap can be installed once demolition activities are completed in the South Plant. Demolition will involve the removal of building and process structures. At the conclusion of demolition activities, the only remaining items should be site foundations. Implementation of an MNA program at this site would consist of a combination of institutional controls and a groundwater monitoring program. The goal of the groundwater program would be to quantitatively demonstrate that site CoC do not become a threat to receptors by monitoring contaminant migration and/or degradation through naturally occurring processes in the subsurface.

10.1.1 Long-Term Effectiveness

Based on the results of the groundwater model, this option would not be effective in protecting adjacent surface water bodies. Naturally occurring hydraulic gradients would transport on-site CoC concentrations to Stouts Bayou and Hennesseys Bayou.

10.1.2 Reduction of Mobility, Toxicity, or Volume

This option does not reduce the mobility, toxicity, or volume of on-site contamination through anthropogenic processes. It is assumed that naturally occurring processes will convert some of the carbon tetrachloride to chloroform. The presence of chloroform in the groundwater at the site indicates that conditions are presently conducive for these processes to occur.

10.1.3 Near-Term Effectiveness

This option would not be effective in the near term at reducing potential exposure to contamination located in the soil piles.

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10.1.4 Implementability

This option employs the use of proven technologies that can be implemented with readily available commercial construction equipment.

10.1.5 Cost Efficiency

The cost of this option was not evaluated because MNA will not prevent the migration of CoC to Stouts Bayou and Hennesseys Bayou.

10.2 Remedial Option 2 (Vertical Barrier)

Remedial Option 2 involves the transport of potential source material located in the North Pond and soil piles to SWMU 2, installation of an engineered soil cap over contaminated areas in the South Plant, a vertical barrier wall, and long-term monitoring.

Pond sludge in the North Pond is considered a potential contaminant source. This material would be solidified and transported to SWMU 2. In the event that solidification or removal of the pond bottom is not sufficient to remove all of the impacted material, additional remediation efforts will be evaluated at that time. There are two soil piles located in the South Plant (SWMU 20). The piles would be transported to SWMU 2. At the conclusion of transport activities, confirmatory sampling would be conducted beneath the pond in the areas where the soils were formerly located. The pond sludge and soil pile material would be incorporated into SWMU 2. SWMU 2 would be recapped. The new cap design would be designed for integrity, long-term stability, and erosion control.

The purpose of an engineered soil cap is twofold. The soil cap will eliminate human exposure to the covered soil concentrations that exceed restricted MDEQ Tier 1 TRGs. Secondly, the soil cap will limit the amount of storm water that infiltrates into this area. The limiting of infiltrated storm water will serve to lessen the hydraulic effects that cause subsurface migration of CoC. An institutional control will be placed on the site to inform the public of the CoC concentrations remaining underneath the soil cap and to ensure that the integrity of the cap is not compromised by future site activities. Prior to installation of the cap, a portion of the soils underneath the cap will be stabilized. Stabilization activities will entail the addition of reagents to bind targeted CoC. This will further reduce the degree of migration of these CoC.

In addition to the soil cap, a vertical barrier wall will be placed in the South Plant to impede and/or direct groundwater flow. The barrier wall will be designed to impede

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both horizontal and vertical groundwater flow. Two vertical barrier wall configurations were evaluated during the groundwater modeling effort. The first option evaluated was to emplace the wall upgradient of areas of known groundwater contamination. This alignment would serve to direct water away from these areas. The second option evaluated was a vertical wall downgradient of the areas of known groundwater contamination. The downgradient wall would be placed to retain impacted groundwater and prevent the release of CoC to the downgradient receptors (Stouts Bayou and Hennesseys Bayou). Based on the results of the groundwater model, the downgradient wall configuration performed better than the upgradient configuration. However, neither wall prevented CoC from reaching Stouts Bayou and Hennesseys Bayou.

Due to the relatively shallow depths where the most heavily impacted groundwater was located, a field evaluation of well sparging, dual-phase extraction, and/or chemical oxidation will be conducted. The purpose of employing one or more of these technologies is to reduce the highest contaminant concentrations. A reduction in contaminant concentrations could possibly reduce the length of the vertical barrier wall and/or the direction of long-term monitoring. Either of these outcomes would reduce the overall remediation costs.

All of the above technologies would incorporate the use of a monitor well network to monitor the performance of these technologies. An evaluation of the existing monitor well network would be completed to determine if it is sufficient to monitor the performance of these remedial technologies. In addition, a sampling program for the monitor well network would be established prior to implementation of this option.

10.2.1 Long-Term Effectiveness

The long-term effectiveness of this option will be evaluated visually and by the on-site monitor well network. Based on the data obtained during inspection and sampling events, repairs and/or modifications can be made to the treatment technologies to ensure that this combination of technologies remains effective in the long term.

10.2.2 Reduction of Mobility, Toxicity, or Volume

The main goal of the treatment technologies utilized is to reduce the mobility of on-site CoC. This will be accomplished primarily by the vertical barrier wall. A secondary contributor to reduction of mobility is the area that will be stabilized. Volume reductions will not be accomplished by this option; however, the soil piles and pond sludges will be relocated to the on-site landfill. This will consolidate exposed material with CoC

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concentrations that are presently not slated to be covered by the engineered cap. This material will be incorporated into the landfill and capped to prevent exposure.

10.2.3 Near-Term Effectiveness

This option would not be effective in the near term at reducing potential exposure to contamination located in the soil piles.

10.2.4 Implementability

This option employs the use of proven technologies that can be implemented with readily available commercial construction equipment. At the present time, the areas near the banks of Stouts and Hennesseys bayous appear to present the most challenging working conditions. A detailed evaluation of site conditions will be made in the development of the CAP that will focus on these and other potential impediments to construction.

10.2.5 Cost Efficiency

The cost of this option was not evaluated because the vertical barrier wall will not prevent the migration of CoC to Stouts Bayou and Hennesseys Bayou.

10.3 Remedial Option 3 (Vertical Barrier with Groundwater Recovery)

This option incorporates all of the remedial activities of Remedial Option 2, plus the addition of a groundwater recovery system as a part of the vertical barrier wall. The purpose of a groundwater recovery system would be to capture contaminated groundwater prior to escaping the hydraulic control of the vertical barrier system. The groundwater would be recovered and treated on site, or pumped to the local municipal wastewater treatment plant. Based on the amenability of some of the CoC with the highest concentrations to in-situ remediation methods, a pilot study may be conducted to evaluate air sparging, dual phase extraction, and/or chemical oxidation. Prior to installing the vertical barrier wall, the results of the pilot study will be evaluated to determine if the remediation costs can be reduced. Figure 31 shows the locations and types of remedial actions that will be conducted at the site.

For this option, the engineered cap placement and design, vertical barrier wall with groundwater recovery system placement and design, and monitor well network would be evaluated and optimized prior to being submitted to MDEQ in a CAP document.

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10.3.1 Long-Term Effectiveness

This option provides a long-term effective solution for the prevention of CoC exposure to receptors. The long-term effectiveness of this option will be evaluated qualitatively during site inspection visits and quantitatively through sampling of the groundwater monitoring network. Based on the data obtained during inspection and sampling events, repairs and/or modifications can be made to the treatment technologies to ensure that this combination of technologies remains effective in the long term.

10.3.2 Reduction of Mobility, Toxicity, or Volume

The main goal of the treatment technologies utilized is to reduce the mobility of on-site CoC. This will be accomplished primarily by the vertical barrier wall and groundwater recovery system. A secondary contributor to reduction of mobility is the area that will be stabilized with activated carbon. The toxicity of the stabilized material will be lessened only to the extent that the stabilized matrix binds the targeted CoC and prevents exposure to target organs/systems. The volume of material requiring handling will increase as groundwater is recovered and brought to the surface for treatment.

10.3.3 Near-Term Effectiveness

This option will be effective at protecting human health and the environment upon the conclusion of the construction activities required to implement these technologies in the field.

10.3.4 Implementability

This option employs the use of proven technologies that can be implemented with readily available commercial construction equipment. At the present time, the areas near the banks of Stouts and Hennesseys bayous appear to present the most challenging working conditions. A detailed evaluation of site conditions will be made in the development of the CAP that will focus on these and other potential impediments to construction.

10.3.5 Cost Efficiency

This option was the only remedial option evaluated that provided adequate protection of human health and the environment. A competitive bid process will be used before implementation to ensure that the most cost-effective contractors provide service on

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this project. The majority of the cost of implementing this option will be realized at the beginning stages of the project. It will be during this time that the engineered cap and vertical barrier with groundwater recovery will be installed. These two items will constitute two large initial capital outlays. Groundwater sampling, operations and maintenance, and reporting costs will be substantially less on a per year basis than the initial capital costs. Actual recurring costs will be a function of the frequency of groundwater sampling and reporting required by MDEQ and the schedule of required site visits to ensure the integrity of the installed portions of the remediation.

10.4 Remedial Option Selected

Remedial Option 3 is proposed to be implemented at the site. Of the remedial options evaluated, it was the only one that prevented exposure of unacceptable CoC concentrations to receptors. After Remedial Option 3 was selected, a Remedial Site Conceptual Exposure Model (RSCEM) was completed. The RSCEM included in Appendix E shows the CoC exposure pathways and how the remedial activities will prevent exposure. As shown in the RSCEM, the remediation at this site consists of a combination of engineered and institutional controls.

10.5 Schedule (CAP and/or Compliance Monitoring Plan)

ARCADIS will submit a CAP to MDEQ within 60 days of approval of this Site Characterization Report. The CAP will outline the procedures necessary to implement the selected option.

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Table 1. Water Level Elevations on January 29, 2007, Site Characterization Report, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Monitor Well	Total Depth (ft msl)	TOC Elevation (ft msl)	Depth to Water (btoc)	Water Level Elevation (ft msl)
MW-1A	32.83	111.39	2.49	108.90
MW-1C	29.95	111.66	2.91	108.75
MW-2	41.56	108.89	5.91	102.98
MW-4	27.79	112.00	3.76	108.24
MW-5	20.61	101.13	14.20	86.93
MW-6	26.82	100.70	11.05	89.65
MW-7	32.87	99.98	4.46	95.52
MW-8	26.95	109.48	4.75	104.73
MW-9	60.43	116.04	3.62	112.42
MW-10	54.74	114.40	4.13	110.27
MW-10C	18.19	113.28	3.91	109.37
MW-11	51.59	104.89	7.53	97.36
MW-12	50.40	111.68	1.34	110.34
MW-12C	19.48	113.76	4.55	109.21
MW-13	52.65	113.45	1.84	111.61
MW-14	59.87	113.80	5.51	108.29
MW-16	55.50	111.77	0.73	111.04
MW-17A	32.39	123.08	3.60	119.48
MW-17B	22.77	123.21	3.50	119.71
MW-18A	34.62	122.84	9.06	113.78
MW-18B	27.63	122.96	8.83	114.13
PZ-12A	76.86	137.56	29.23	108.33
PZ-12B	38.49	136.81	15.68	121.13
PZ-20A	73.65	136.18	27.81	108.37
PZ-20B	40.28	136.16	20.66	115.50
PZ-21A	59.14	115.14	6.89	108.25
PZ-22A	52.00	112.51	4.98	107.53
PZ-22B	27.44	113.42	3.96	109.46
PZ-23A	53.36	112.67	4.63	108.04
PZ-23B	30.03	113.10	3.45	109.65
PZ-24B	49.28	112.08	4.80	107.28
PZ-25B	43.00	113.82	2.53	111.29
PZ-26A	40.68	108.82	6.98	101.84
PZ-26B	31.68	109.03	7.62	101.41
RRUW	33.01	111.28	2.40	108.88
SPUW	64.53	142.88	0.46	142.42

btoc Below top of casing.
ft msl Feet mean sea level.
TOC Top of casing.

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Table 2. Water Level Elevations on October 19, 2007, Site Characterization Report, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Monitor Well	Total Depth (ft msl)	TOC Elevation (ft msl)	Depth to Water (btoc)	Water Level Elevation (ft msl)
MW-1A	32.71	111.39	3.22	108.17
MW-1C	31.70	111.66	3.62	108.04
MW-2	41.89	108.89	13.10	95.79
MW-4	21.57	112.00	6.28	105.72
MW-5	21.51	101.13	18.71	82.42
MW-6	28.53	100.70	16.49	84.21
MW-7	32.50	99.98	13.00	86.98
MW-8	27.00	109.48	8.45	101.03
MW-9	60.35	116.04	7.65	108.39
MW-10	55.35	114.40	8.55	105.85
MW-10C	18.14	113.28	7.46	105.82
MW-11	51.59	104.89	8.31	96.58
MW-12	50.31	111.68	6.98	104.70
MW-12C	20.49	113.76	9.18	104.58
MW-13	52.60	113.45	4.19	109.26
MW-14	59.85	113.80	6.71	107.09
MW-16	55.45	111.77	4.08	107.69
MW-17A	32.29	123.08	5.02	118.06
MW-17B	22.66	123.21	4.63	118.58
MW-18A	36.85	122.84	11.53	111.31
MW-18B	27.58	122.96	11.49	111.47
PZ-12A	77.95	137.56	32.03	105.53
PZ-12B	39.28	136.81	22.16	114.65
PZ-20A	78.32	136.18	30.67	105.51
PZ-20B	40.32	136.16	23.21	112.95
PZ-21A	60.39	115.14	9.67	105.47
PZ-22A	54.13	112.51	7.70	104.81
PZ-22B	28.01	113.42	7.62	109.80
PZ-23A	53.15	112.67	7.52	105.15
PZ-23B	30.22	113.10	7.76	105.34
PZ-24B	NA	112.08	NA	NA
PZ-25B	43.00	113.82	6.45	107.37
PZ-26A	39.97	108.82	9.98	98.84
PZ-26B	32.00	109.03	10.55	98.48
RRUW	32.97	111.28	3.04	108.24
SPUW	64.25	142.88	64.22	78.66

btoc Below top of casing.
ft msl Feet mean sea level.
NA Not applicable - well destroyed.
TOC Top of casing.

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Table 3. Summary of Soil Analytical Data, Site Characterization Report, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Parameter	Analytical Method	CAS No.	Soil Tier 1 TRG Restricted (mg/kg)	Sample ID: / Sample Date:	GP-SB-01 (0-2) 2/13/2007	GP-SB-01 (2-4) 2/13/2007	GP-SB-02 (0-2) 2/13/2007	GP-SB-02 (2-4) 2/13/2007	GP-SB-03 (2-4) 2/13/2007	GP-SB-03 (4-6) 2/13/2007
1,1,1,2-Tetrachloroethane	SW-846 8260	630206	220		<0.00503	<0.00487	<0.00452	<0.00518	<0.00498	<0.0049
1,1,1-Trichloroethane	SW-846 8260	71556	1190		<0.00503	<0.00487	<0.00452	<0.00518	<0.00498	<0.0049
1,1,2,2-Tetrachloroethane	SW-846 8260	79345	1		<0.00503	<0.00487	<0.00452	<0.00518	<0.00498	<0.0049
1,1,2-Trichloroethane	SW-846 8260	79005	1.67		<0.00503	<0.00487	<0.00452	<0.00518	<0.00498	<0.0049
1,1-Dichloroethane	SW-846 8260	75343	116		<0.00503	<0.00487	<0.00452	<0.00518	<0.00498	<0.0049
1,1-Dichloroethene	SW-846 8260	75354	0.118		<0.00503	<0.00487	<0.00452	<0.00518	<0.00498	<0.0049
1,2,3-Trichloropropane	SW-846 8260	96184	0.818		<0.00503	<0.00487	<0.00452	<0.00518	<0.00498	<0.0049
1,2,4-Trimethylbenzene	SW-846 8260	95636	102000		<0.00503	<0.00487	<0.00452	<0.00518	<0.00498	<0.0049
1,2-Dibromo-3-chloropropane	SW-846 8260	96128	0.0999		<0.00503	<0.00487	<0.00452	<0.00518	<0.00498	<0.0049
1,2-Dibromoethane (EDB)	SW-846 8260	106934	0.0673		<0.00503	<0.00487	<0.00452	<0.00518	<0.00498	<0.0049
1,2-Dichloroethane	SW-846 8260	107062	0.621		<0.00503	<0.00487	<0.00452	<0.00518	<0.00498	<0.0049
1,2-Dichloropropane	SW-846 8260	78875	0.445		<0.00503	<0.00487	<0.00452	<0.00518	<0.00498	<0.0049
1,3,5-Trimethylbenzene	SW-846 8260	108678	436		<0.00503	<0.00487	<0.00452	<0.00518	<0.00498	<0.0049
1,4-Dioxane (p-Dioxane)	SW-846 8260	123911	520		<0.251	<0.243	<0.226	<0.259	<0.249	<0.245
2-Butanone (MEK)	SW-846 8260	78933	84.5		<0.0101	<0.00974	<0.00904	<0.0104	<0.00995	<0.0098
2-Hexanone	SW-846 8260	591786	81800		<0.0101	<0.00974	<0.00904	<0.0104	<0.00995	<0.0098
4-Methyl-2-pentanone (MIBK)	SW-846 8260	108101	163000		<0.0101	<0.00974	<0.00904	<0.0104	<0.00995	<0.0098
4-Nitrophenol	SW-846 8270	100027	16400		<0.392	<0.396	<0.378	<0.41	<0.382	<0.415
Acetone	SW-846 8260	67641	104000		**0.0178**	**0.0121**	**0.0308**	**0.0274**	<0.00995	<0.0098
Acetonitrile	SW-846 8260	75058	111		<0.101	<0.0974	<0.0904	<0.104	<0.0995	<0.098
Acetophenone	SW-846 8270	98862	2630		<0.392	<0.396	<0.378	<0.41	<0.382	<0.415
Acrolein	SW-846 8260	107028	40900		<0.0201	<0.0195	<0.0181	<0.0207	<0.0199	<0.0196
Acrylonitrile	SW-846 8260	107131	10.6		<0.0201	<0.0195	<0.0181	<0.0207	<0.0199	<0.0196
Allyl chloride	SW-846 8260	107051	NAV		<0.0101	<0.00974	<0.00904	<0.0104	<0.00995	<0.0098
Arsenic*	SW-846 6010	7440382	11.8		<1.09	<1.17	**1.63**	**2.82**	**1.59**	<1.06
Atrazine	SW-846 8270	1912249	25.8		<0.392	<0.396	<0.378	<0.41	<0.382	<0.415
Benzene	SW-846 8260	71432	1.36		<0.00503	<0.00487	<0.00452	<0.00518	<0.00498	<0.0049
bis(2-Ethylhexyl)phthalate	SW-846 8270	117817	409		<0.392	<0.396	<0.378	<0.41	<0.382	<0.415
Bromodichloromethane	SW-846 8260	75274	1.89		<0.00503	<0.00487	<0.00452	<0.00518	<0.00498	<0.0049
Bromoform	SW-846 8260	75252	90.1		<0.00503	<0.00487	<0.00452	<0.00518	<0.00498	<0.0049
Bromomethane	SW-846 8260	74839	2.97		<0.00503	<0.00487	<0.00452	<0.00518	<0.00498	<0.0049
Carbon disulfide	SW-846 8260	75150	7.97		<0.00503	<0.00487	<0.00452	<0.00518	<0.00498	<0.0049
Carbon tetrachloride	SW-846 8260	56235	0.569		<0.00503	<0.00487	<0.00452	<0.00518	<0.00498	<0.0049
Chlorobenzene	SW-846 8260	108907	1.19		<0.00503	<0.00487	<0.00452	<0.00518	<0.00498	<0.0049
Chloroethane	SW-846 8260	75003	1970		<0.00503	<0.00487	<0.00452	<0.00518	<0.00498	**0.00499**
Chloroform	SW-846 8260	67663	0.478		<0.00503	<0.00487	<0.00452	<0.00518	<0.00498	<0.0049
Chloromethane	SW-846 8260	74873	440		<0.00503	<0.00487	<0.00452	<0.00518	<0.00498	<0.0049
Chloroprene	SW-846 8260	126998	4080		<0.00503	<0.00487	<0.00452	<0.00518	<0.00498	<0.0049
cis-1,3-Dichloropropene	SW-846 8260	10061015	0.352		<0.00503	<0.00487	<0.00452	<0.00518	<0.00498	<0.0049

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Table 3. Summary of Soil Analytical Data, Site Characterization Report, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Parameter	Analytical Method	CAS No.	Soil Tier 1 TRG Restricted (mg/kg)	Sample ID: / Sample Date:	GP-SB-01 (0-2) 2/13/2007	GP-SB-01 (2-4) 2/13/2007	GP-SB-02 (0-2) 2/13/2007	GP-SB-02 (2-4) 2/13/2007	GP-SB-03 (2-4) 2/13/2007	GP-SB-03 (4-6) 2/13/2007
Cyanazine	SW-846 8270	21725462	6.81		<0.392	<0.396	<0.378	<0.41	<0.382	<0.415
Dibromochloromethane	SW-846 8260	124481	68.1		<0.00503	<0.00487	<0.00452	<0.00518	<0.00498	<0.0049
Dibromomethane	SW-846 8260	74953	20400		<0.00503	<0.00487	<0.00452	<0.00518	<0.00498	<0.0049
Dichlorodifluoromethane	SW-846 8260	75718	409000		<0.00503	<0.00487	<0.00452	<0.00518	<0.00498	<0.0049
Dinoseb	SW-846 8151	88857	204		<0.0471	<0.0476	<0.0454	<0.0493	<0.0459	<0.0498
Ethyl methacrylate	SW-846 8260	97632	18400		<0.0101	<0.00974	<0.00904	<0.0104	<0.00995	<0.0098
Ethylbenzene	SW-846 8260	100414	395		<0.00503	<0.00487	<0.00452	<0.00518	<0.00498	<0.0049
Iodomethane	SW-846 8260	74884	NAV		<0.00503	<0.00487	<0.00452	<0.00518	<0.00498	<0.0049
Isobutanol	SW-846 8260	78831	613000		<0.251	<0.243	<0.226	<0.259	<0.249	<0.245
m&p-Xylene	SW-846 8260	1330207	461		<0.00503	<0.00487	<0.00452	<0.00518	<0.00498	<0.0049
Methacrylonitrile	SW-846 8260	126987	204		<0.101	<0.0974	<0.0904	<0.104	<0.0995	<0.098
Methyl methacrylate	SW-846 8260	80626	16300		<0.0101	<0.00974	<0.00904	<0.0104	<0.00995	<0.0098
Methylene chloride	SW-846 8260	75092	21.9		<0.00503	<0.00487	<0.00452	<0.00518	<0.00498	<0.0049
o-Xylene	SW-846 8260	95476	413		<0.00503	<0.00487	<0.00452	<0.00518	<0.00498	<0.0049
Pentachlorophenol	SW-846 8270	87865	23.8		<0.392	<0.396	<0.378	<0.41	<0.382	<0.415
Propionitrile	SW-846 8260	107120	NAV		<0.0201	<0.0195	<0.0181	<0.0207	<0.0199	<0.0196
Styrene	SW-846 8260	100425	384		<0.00503	<0.00487	<0.00452	<0.00518	<0.00498	<0.0049
Tetrachloroethene	SW-846 8260	127184	18.2		<0.00503	<0.00487	<0.00452	<0.00518	<0.00498	<0.0049
Toluene	SW-846 8260	108883	38		<0.00503	<0.00487	<0.00452	**0.00555**	**0.00555**	<0.0049
Toxaphene	SW-846 8081	8001352	5.2		<0.0785	<0.0794	**0.868**	<0.0821	<0.0766	<0.0831
trans-1,2-Dichloroethene	SW-846 8260	156605	3070		<0.00503	<0.00487	<0.00452	<0.00518	<0.00498	<0.0049
trans-1,3-Dichloropropene	SW-846 8260	10061026	0.352		<0.00503	<0.00487	<0.00452	<0.00518	<0.00498	<0.0049
trans-1,4-Dichloro-2-butene	SW-846 8260	110576	NAV		<0.00503	<0.00487	<0.00452	<0.00518	<0.00498	<0.0049
Trichloroethene	SW-846 8260	79016	7.92		<0.00503	<0.00487	<0.00452	<0.00518	<0.00498	**0.225**
Trichlorofluoromethane	SW-846 8260	75694	143000		<0.00503	<0.00487	<0.00452	<0.00518	<0.00498	<0.0049
Vinyl acetate	SW-846 8260	108054	9.13		<0.0101	<0.00974	<0.00904	<0.0104	<0.00995	<0.0098
Vinyl chloride	SW-846 8260	75014	0.939		<0.00503	<0.00487	<0.00452	<0.00518	<0.00498	**0.118**

All concentrations are in milligrams per kilogram (mg/kg).

J Estimated value.

NA Not analyzed.

NAV Not available.

R Rejected.

TRG Target Remediation Goal.

UB Non-detect due to associated blank contamination.

Shaded result indicates concentration above TRG (restricted).

* 11.8 mg/kg based on MDEQ approval of the Upper Confidence Limit (UCL) of the mean of the background concentration.

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Table 3. Summary of Soil Analytical Data, Site Characterization Report, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Parameter	Analytical Method	CAS No.	Soil Tier 1 TRG Restricted (mg/kg)	Sample ID: Sample Date:	GP-SB-04 (2-4) 2/13/2007	GP-SB-04 (4-6) 2/13/2007	GP-SB-05 (0-2) 2/13/2007	GP-SB-05 (2-4) 2/13/2007	GP-SB-06 (0-2) 2/13/2007	GP-SB-06 (2-4) 2/13/2007
1,1,1,2-Tetrachloroethane	SW-846 8260	630206	220		<0.00476	<0.00489	<0.00529	<0.00512	<0.0051	<0.00532
1,1,1-Trichloroethane	SW-846 8260	71556	1190		<0.00476	<0.00489	<0.00529	<0.00512	<0.0051	<0.00532
1,1,2,2-Tetrachloroethane	SW-846 8260	79345	1		<0.00476	<0.00489	<0.00529	<0.00512	<0.0051	<0.00532
1,1,2-Trichloroethane	SW-846 8260	79005	1.67		<0.00476	<0.00489	<0.00529	<0.00512	<0.0051	<0.00532
1,1-Dichloroethane	SW-846 8260	75343	116		<0.00476	<0.00489	<0.00529	<0.00512	<0.0051	<0.00532
1,1-Dichloroethene	SW-846 8260	75354	0.118		<0.00476	<0.00489	<0.00529	<0.00512	<0.0051	<0.00532
1,2,3-Trichloropropane	SW-846 8260	96184	0.818		<0.00476	<0.00489	<0.00529	<0.00512	<0.0051	<0.00532
1,2,4-Trimethylbenzene	SW-846 8260	95636	102000		<0.00476	<0.00489	<0.00529	<0.00512	<0.0051	<0.00532
1,2-Dibromo-3-chloropropane	SW-846 8260	96128	0.0999		<0.00476	<0.00489	<0.00529	<0.00512	<0.0051	<0.00532
1,2-Dibromoethane (EDB)	SW-846 8260	106934	0.0673		<0.00476	<0.00489	<0.00529	<0.00512	<0.0051	<0.00532
1,2-Dichloroethane	SW-846 8260	107062	0.621		<0.00476	<0.00489	<0.00529	<0.00512	<0.0051	<0.00532
1,2-Dichloropropane	SW-846 8260	78875	0.445		<0.00476	<0.00489	<0.00529	<0.00512	<0.0051	<0.00532
1,3,5-Trimethylbenzene	SW-846 8260	108678	436		<0.00476	<0.00489	<0.00529	<0.00512	<0.0051	<0.00532
1,4-Dioxane (p-Dioxane)	SW-846 8260	123911	520		<0.238	<0.245	<0.264	<0.256	<0.255	<0.266
2-Butanone (MEK)	SW-846 8260	78933	84.5		<0.00951	<0.00978	<0.0106	<0.0102	<0.0102	<0.0106
2-Hexanone	SW-846 8260	591786	81800		<0.00951	<0.00978	<0.0106	<0.0102	<0.0102	<0.0106
4-Methyl-2-pentanone (MIBK)	SW-846 8260	108101	163000		<0.00951	<0.00978	<0.0106	<0.0102	<0.0102	<0.0106
4-Nitrophenol	SW-846 8270	100027	16400		<0.41	<0.414	<0.425	<0.429	<0.4	<0.437
Acetone	SW-846 8260	67641	104000		<0.00951	0.0153	<0.0106	<0.0102	<0.0102	<0.0106
Acetonitrile	SW-846 8260	75058	111		<0.0951	<0.0978	<0.106	<0.102	<0.102	<0.106
Acetophenone	SW-846 8270	98862	2630		<0.41	<0.414	<0.425	<0.429	<0.4	<0.437
Acrolein	SW-846 8260	107028	40900		<0.019	<0.0196	<0.0212	<0.0205	<0.0204	<0.0213
Acrylonitrile	SW-846 8260	107131	10.6		<0.019	<0.0196	<0.0212	<0.0205	<0.0204	<0.0213
Allyl chloride	SW-846 8260	107051	NAV		<0.00951	<0.00978	<0.0106	<0.0102	<0.0102	<0.0106
Arsenic*	SW-846 6010	7440382	11.8		<1.1	**4.31**	**3.35**	**5.58**	**2.64**	**2.01**
Atrazine	SW-846 8270	1912249	25.8		<0.41	<0.414	<0.425	<0.429	<0.4	<0.437
Benzene	SW-846 8260	71432	1.36		<0.00476	<0.00489	<0.00529	<0.00512	<0.0051	<0.00532
bis(2-Ethylhexyl)phthalate	SW-846 8270	117817	409		<0.41	<0.414	<0.425	<0.429	<0.4	<0.437
Bromodichloromethane	SW-846 8260	75274	1.89		<0.00476	<0.00489	<0.00529	<0.00512	<0.0051	<0.00532
Bromoform	SW-846 8260	75252	90.1		<0.00476	<0.00489	<0.00529	<0.00512	<0.0051	<0.00532
Bromomethane	SW-846 8260	74839	2.97		<0.00476	<0.00489	<0.00529	<0.00512	<0.0051	<0.00532
Carbon disulfide	SW-846 8260	75150	7.97		<0.00476	<0.00489	<0.00529	<0.00512	<0.0051	<0.00532
Carbon tetrachloride	SW-846 8260	56235	0.569		<0.00476	<0.00489	<0.00529	<0.00512	<0.0051	<0.00532
Chlorobenzene	SW-846 8260	108907	1.19		<0.00476	<0.00489	<0.00529	<0.00512	<0.0051	<0.00532
Chloroethane	SW-846 8260	75003	1970		<0.00476	<0.00489	<0.00529	<0.00512	<0.0051	<0.00532
Chloroform	SW-846 8260	67663	0.478		<0.00476	<0.00489	<0.00529	<0.00512	<0.0051	<0.00532
Chloromethane	SW-846 8260	74873	440		<0.00476	<0.00489	<0.00529	<0.00512	<0.0051	<0.00532
Chloroprene	SW-846 8260	126998	4080		<0.00476	<0.00489	<0.00529	<0.00512	<0.0051	<0.00532
cis-1,3-Dichloropropene	SW-846 8260	10061015	0.352		<0.00476	<0.00489	<0.00529	<0.00512	<0.0051	<0.00532

Table 3. Summary of Soil Analytical Data, Site Characterization Report, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Parameter	Analytical Method	CAS No.	Soil Tier 1 TRG Restricted (mg/kg)	Sample ID: Sample Date:	GP-SB-04 (2-4) 2/13/2007	GP-SB-04 (4-6) 2/13/2007	GP-SB-05 (0-2) 2/13/2007	GP-SB-05 (2-4) 2/13/2007	GP-SB-06 (0-2) 2/13/2007	GP-SB-06 (2-4) 2/13/2007
Cyanazine	SW-846 8270	21725462	6.81		<0.41	<0.414	<0.425	<0.429	<0.4	<0.437
Dibromochloromethane	SW-846 8260	124481	68.1		<0.00476	<0.00489	<0.00529	<0.00512	<0.0051	<0.00532
Dibromomethane	SW-846 8260	74953	20400		<0.00476	<0.00489	<0.00529	<0.00512	<0.0051	<0.00532
Dichlorodifluoromethane	SW-846 8260	75718	409000		<0.00476	<0.00489	<0.00529	<0.00512	<0.0051	<0.00532
Dinoseb	SW-846 8151	88857	204		<0.0492	<0.0498	<0.0511	<0.0516	<0.0481	<0.0525
Ethyl methacrylate	SW-846 8260	97632	18400		<0.00951	<0.00978	<0.0106	<0.0102	<0.0102	<0.0106
Ethylbenzene	SW-846 8260	100414	395		<0.00476	<0.00489	<0.00529	<0.00512	<0.0051	<0.00532
Iodomethane	SW-846 8260	74884	NAV		<0.00476	<0.00489	<0.00529	<0.00512	<0.0051	<0.00532
Isobutanol	SW-846 8260	78831	613000		<0.238	<0.245	<0.264	<0.256	<0.255	<0.266
m&p-Xylene	SW-846 8260	1330207	461		<0.00476	<0.00489	<0.00529	<0.00512	<0.0051	<0.00532
Methacrylonitrile	SW-846 8260	126987	204		<0.0951	<0.0978	<0.106	<0.102	<0.102	<0.106
Methyl methacrylate	SW-846 8260	80626	16300		<0.00951	<0.00978	<0.0106	<0.0102	<0.0102	<0.0106
Methylene chloride	SW-846 8260	75092	21.9		<0.00476	<0.00489	<0.00529	<0.00512	<0.0051	<0.00532
o-Xylene	SW-846 8260	95476	413		<0.00476	<0.00489	<0.00529	<0.00512	<0.0051	<0.00532
Pentachlorophenol	SW-846 8270	87865	23.8		<0.41	<0.414	<0.425	<0.429	<0.4	<0.437
Propionitrile	SW-846 8260	107120	NAV		<0.019	<0.0196	<0.0212	<0.0205	<0.0204	<0.0213
Styrene	SW-846 8260	100425	384		<0.00476	<0.00489	<0.00529	<0.00512	<0.0051	<0.00532
Tetrachloroethene	SW-846 8260	127184	18.2		<0.00476	<0.00489	<0.00529	<0.00512	<0.0051	<0.00532
Toluene	SW-846 8260	108883	38		<0.00476	<0.00489	<0.00529	**0.00652**	**0.00734**	**0.00739**
Toxaphene	SW-846 8081	8001352	5.2		<0.0821	<0.083	<0.0852	<0.086	<0.0802	<0.0875
trans-1,2-Dichloroethene	SW-846 8260	156605	3070		**0.00477**	<0.00489	<0.00529	<0.00512	<0.0051	<0.00532
trans-1,3-Dichloropropene	SW-846 8260	10061026	0.352		<0.00476	<0.00489	<0.00529	<0.00512	<0.0051	<0.00532
trans-1,4-Dichloro-2-butene	SW-846 8260	110576	NAV		<0.00476	<0.00489	<0.00529	<0.00512	<0.0051	<0.00532
Trichloroethene	SW-846 8260	79016	7.92		<0.00476	<0.00489	**0.0271**	**0.186**	<0.0051	<0.00532
Trichlorofluoromethane	SW-846 8260	75694	143000		<0.00476	<0.00489	<0.00529	<0.00512	<0.0051	<0.00532
Vinyl acetate	SW-846 8260	108054	9.13		<0.00951	<0.00978	<0.0106	<0.0102	<0.0102	<0.0106
Vinyl chloride	SW-846 8260	75014	0.939		**0.0952**	<0.00489	<0.00529	<0.00512	<0.0051	<0.00532

All concentrations are in milligrams per kilogram (mg/kg).
J Estimated value.
NA Not analyzed.
NAV Not available.
R Rejected.
TRG Target Remediation Goal.
UB Non-detect due to associated blank contamination.
Shaded result indicates concentration above TRG (restricted).
* 11.8 mg/kg based on MDEQ approval of the Upper Confidence Limit (UCL) of the mean of the background concentration.

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Table 3. Summary of Soil Analytical Data, Site Characterization Report, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Parameter	Analytical Method	CAS No.	Soil Tier 1 TRG Restricted (mg/kg)	Sample ID:	GP-SB-07 (0-2)	GP-SB-DUP-01 GP-SB-07 (0-2)	GP-SB-07 (2-4)	GP-SB-08 (0-2)	GP-SB-08 (2-4)	GP-SB-09 (0-2)
				Sample Date:	2/13/2007	2/13/2007	2/13/2007	2/13/2007	2/13/2007	2/13/2007
1,1,1,2-Tetrachloroethane	SW-846 8260	630206	220		<0.00512	<0.00528	<0.00488	<0.00482	<0.00512	<0.00553
1,1,1-Trichloroethane	SW-846 8260	71556	1190		<0.00512	<0.00528	<0.00488	<0.00482	<0.00512	<0.00553
1,1,2,2-Tetrachloroethane	SW-846 8260	79345	1		<0.00512	<0.00528	<0.00488	<0.00482	<0.00512	<0.00553
1,1,2-Trichloroethane	SW-846 8260	79005	1.67		<0.00512	<0.00528	<0.00488	<0.00482	<0.00512	<0.00553
1,1-Dichloroethane	SW-846 8260	75343	116		<0.00512	<0.00528	<0.00488	<0.00482	<0.00512	<0.00553
1,1-Dichloroethene	SW-846 8260	75354	0.118		<0.00512	<0.00528	<0.00488	<0.00482	<0.00512	<0.00553
1,2,3-Trichloropropane	SW-846 8260	96184	0.818		<0.00512	<0.00528	<0.00488	<0.00482	<0.00512	<0.00553
1,2,4-Trimethylbenzene	SW-846 8260	95636	102000		<0.00512	<0.00528	<0.00488	<0.00482	<0.00512	<0.00553
1,2-Dibromo-3-chloropropane	SW-846 8260	96128	0.0999		<0.00512	<0.00528	<0.00488	<0.00482	<0.00512	<0.00553
1,2-Dibromoethane (EDB)	SW-846 8260	106934	0.0673		<0.00512	<0.00528	<0.00488	<0.00482	<0.00512	<0.00553
1,2-Dichloroethane	SW-846 8260	107062	0.621		<0.00512	<0.00528	<0.00488	<0.00482	<0.00512	<0.00553
1,2-Dichloropropane	SW-846 8260	78875	0.445		<0.00512	<0.00528	<0.00488	<0.00482	<0.00512	<0.00553
1,3,5-Trimethylbenzene	SW-846 8260	108678	436		<0.00512	<0.00528	<0.00488	<0.00482	<0.00512	<0.00553
1,4-Dioxane (p-Dioxane)	SW-846 8260	123911	520		<0.256	<0.264	<0.244	<0.241	<0.256	<0.276
2-Butanone (MEK)	SW-846 8260	78933	84.5		<0.0102	<0.0106	<0.00975	<0.00963	<0.0102	<0.0111
2-Hexanone	SW-846 8260	591786	81800		<0.0102	<0.0106	<0.00975	<0.00963	<0.0102	<0.0111
4-Methyl-2-pentanone (MIBK)	SW-846 8260	108101	163000		<0.0102	<0.0106	<0.00975	<0.00963	<0.0102	<0.0111
4-Nitrophenol	SW-846 8270	100027	16400		<0.434	<0.415	<0.435	<0.379	<0.422	<0.447
Acetone	SW-846 8260	67641	104000		<0.0102	<0.0106	<0.00975	<0.00963	<0.0102	<0.0111
Acetonitrile	SW-846 8260	75058	111		<0.102	<0.106	<0.0975	<0.0963	<0.102	<0.111
Acetophenone	SW-846 8270	98862	2630		<0.434	<0.415	<0.435	<0.379	<0.422	<0.447
Acrolein	SW-846 8260	107028	40900		<0.0205	<0.0211	<0.0195	<0.0193	<0.0205	<0.0221
Acrylonitrile	SW-846 8260	107131	10.6		<0.0205	<0.0211	<0.0195	<0.0193	<0.0205	<0.0221
Allyl chloride	SW-846 8260	107051	NAV		<0.0102	<0.0106	<0.00975	<0.00963	<0.0102	<0.0111
Arsenic*	SW-846 6010	7440382	11.8		**6.54**	**13.3**	**3.65**	**4.07**	<1.17	<1.24
Atrazine	SW-846 8270	1912249	25.8		<0.434	<0.415	<0.435	<0.379	<0.422	<0.447
Benzene	SW-846 8260	71432	1.36		<0.00512	<0.00528	<0.00488	<0.00482	<0.00512	<0.00553
bis(2-Ethylhexyl)phthalate	SW-846 8270	117817	409		**2.21**	<0.415	<0.435	<0.379	<0.422	<0.447
Bromodichloromethane	SW-846 8260	75274	1.89		<0.00512	<0.00528	<0.00488	<0.00482	<0.00512	<0.00553
Bromoform	SW-846 8260	75252	90.1		<0.00512	<0.00528	<0.00488	<0.00482	<0.00512	<0.00553
Bromomethane	SW-846 8260	74839	2.97		<0.00512	<0.00528	<0.00488	<0.00482	<0.00512	<0.00553
Carbon disulfide	SW-846 8260	75150	7.97		<0.00512	<0.00528	<0.00488	<0.00482	<0.00512	<0.00553
Carbon tetrachloride	SW-846 8260	56235	0.569		<0.00512	<0.00528	<0.00488	<0.00482	<0.00512	<0.00553
Chlorobenzene	SW-846 8260	108907	1.19		<0.00512	<0.00528	<0.00488	<0.00482	<0.00512	<0.00553
Chloroethane	SW-846 8260	75003	1970		<0.00512	<0.00528	<0.00488	<0.00482	<0.00512	<0.00553
Chloroform	SW-846 8260	67663	0.478		<0.00512	<0.00528	<0.00488	<0.00482	<0.00512	<0.00553
Chloromethane	SW-846 8260	74873	440		<0.00512	<0.00528	<0.00488	<0.00482	<0.00512	<0.00553
Chloroprene	SW-846 8260	126998	4080		<0.00512	<0.00528	<0.00488	<0.00482	<0.00512	<0.00553
cis-1,3-Dichloropropene	SW-846 8260	10061015	0.352		<0.00512	<0.00528	<0.00488	<0.00482	<0.00512	<0.00553

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Table 3. Summary of Soil Analytical Data, Site Characterization Report, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Parameter	Analytical Method	CAS No.	Soil Tier 1 TRG Restricted (mg/kg)	Sample ID:	GP-SB-07 (0-2)	GP-SB-DUP-01 GP-SB-07 (0-2)	GP-SB-07 (2-4)	GP-SB-08 (0-2)	GP-SB-08 (2-4)	GP-SB-09 (0-2)
				Sample Date:	2/13/2007	2/13/2007	2/13/2007	2/13/2007	2/13/2007	2/13/2007
Cyanazine	SW-846 8270	21725462	6.81		<0.434	<0.415	<0.435	<0.379	<0.422	<0.447
Dibromochloromethane	SW-846 8260	124481	68.1		<0.00512	<0.00528	<0.00488	<0.00482	<0.00512	<0.00553
Dibromomethane	SW-846 8260	74953	20400		<0.00512	<0.00528	<0.00488	<0.00482	<0.00512	<0.00553
Dichlorodifluoromethane	SW-846 8260	75718	409000		<0.00512	<0.00528	<0.00488	<0.00482	<0.00512	<0.00553
Dinoseb	SW-846 8151	88857	204		<0.522	<0.499	<0.0523	<0.0455	<0.0507	<0.0537
Ethyl methacrylate	SW-846 8260	97632	18400		<0.0102	<0.0106	<0.00975	<0.00963	<0.0102	<0.0111
Ethylbenzene	SW-846 8260	100414	395		<0.00512	<0.00528	<0.00488	<0.00482	<0.00512	<0.00553
Iodomethane	SW-846 8260	74884	NAV		<0.00512	<0.00528	<0.00488	<0.00482	<0.00512	<0.00553
Isobutanol	SW-846 8260	78831	613000		<0.256	<0.264	<0.244	<0.241	<0.256	<0.276
m&p-Xylene	SW-846 8260	1330207	461		<0.00512	<0.00528	<0.00488	**0.0049**	<0.00512	<0.00553
Methacrylonitrile	SW-846 8260	126987	204		<0.102	<0.106	<0.0975	<0.0963	<0.102	<0.111
Methyl methacrylate	SW-846 8260	80626	16300		<0.0102	<0.0106	<0.00975	<0.00963	<0.0102	<0.0111
Methylene chloride	SW-846 8260	75092	21.9		<0.00512	<0.00528	<0.00488	<0.00482	<0.00512	<0.00553
o-Xylene	SW-846 8260	95476	413		<0.00512	<0.00528	<0.00488	<0.00482	<0.00512	<0.00553
Pentachlorophenol	SW-846 8270	87865	23.8		<0.434	<0.415	<0.435	<0.379	<0.422	<0.447
Propionitrile	SW-846 8260	107120	NAV		<0.0205	<0.0211	<0.0195	<0.0193	<0.0205	<0.0221
Styrene	SW-846 8260	100425	384		<0.00512	<0.00528	<0.00488	<0.00482	<0.00512	<0.00553
Tetrachloroethene	SW-846 8260	127184	18.2		<0.00512	<0.00528	<0.00488	<0.00482	<0.00512	<0.00553
Toluene	SW-846 8260	108883	38		**0.00647**	**0.00836**	**0.00654**	**0.00778**	**0.00564**	**0.00809**
Toxaphene	SW-846 8081	8001352	5.2		<0.087	<0.0832	<0.0872	<0.0758	<0.0846	<0.0895
trans-1,2-Dichloroethene	SW-846 8260	156605	3070		<0.00512	<0.00528	<0.00488	<0.00482	<0.00512	<0.00553
trans-1,3-Dichloropropene	SW-846 8260	10061026	0.352		<0.00512	<0.00528	<0.00488	<0.00482	<0.00512	<0.00553
trans-1,4-Dichloro-2-butene	SW-846 8260	110576	NAV		<0.00512	<0.00528	<0.00488	<0.00482	<0.00512	<0.00553
Trichloroethene	SW-846 8260	79016	7.92		<0.00512	<0.00528	<0.00488	<0.00482	<0.00512	<0.00553
Trichlorofluoromethane	SW-846 8260	75694	143000		<0.00512	<0.00528	<0.00488	<0.00482	<0.00512	<0.00553
Vinyl acetate	SW-846 8260	108054	9.13		<0.0102	<0.0106	<0.00975	<0.00963	<0.0102	<0.0111
Vinyl chloride	SW-846 8260	75014	0.939		<0.00512	<0.00528	<0.00488	<0.00482	<0.00512	<0.00553

All concentrations are in milligrams per kilogram (mg/kg).

J Estimated value.

NA Not analyzed.

NAV Not available.

R Rejected.

TRG Target Remediation Goal.

UB Non-detect due to associated blank contamination.

Shaded result indicates concentration above TRG (restricted).

* 11.8 mg/kg based on MDEQ approval of the Upper Confidence Limit (UCL) of the mean of the background concentration.

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Table 3. Summary of Soil Analytical Data, Site Characterization Report, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Parameter	Analytical Method	CAS No.	Soil Tier 1 TRG Restricted (mg/kg)	Sample ID: Sample Date:	GP-SB-09 (2-4) 2/13/2007	GP-SB-10 (0-2) 2/13/2007	GP-SB-10 (2-4) 2/13/2007	GP-SB-11 (0-2) 2/14/2007	GP-SB-11 (2-4) 2/14/2007	GP-SB-12 (0-2) 2/14/2007
1,1,1,2-Tetrachloroethane	SW-846 8260	630206	220		<0.0049	<0.00526	<0.00522	<0.00479	<0.0048	<0.00597
1,1,1-Trichloroethane	SW-846 8260	71556	1190		<0.0049	<0.00526	<0.00522	<0.00479	<0.0048	<0.00597
1,1,2,2-Tetrachloroethane	SW-846 8260	79345	1		<0.0049	<0.00526	<0.00522	<0.00479	<0.0048	<0.00597
1,1,2-Trichloroethane	SW-846 8260	79005	1.67		<0.0049	<0.00526	<0.00522	<0.00479	<0.0048	<0.00597
1,1-Dichloroethane	SW-846 8260	75343	116		<0.0049	<0.00526	<0.00522	<0.00479	<0.0048	<0.00597
1,1-Dichloroethene	SW-846 8260	75354	0.118		<0.0049	<0.00526	<0.00522	<0.00479	<0.0048	<0.00597
1,2,3-Trichloropropane	SW-846 8260	96184	0.818		<0.0049	<0.00526	<0.00522	<0.00479	<0.0048	<0.00597
1,2,4-Trimethylbenzene	SW-846 8260	95636	102000		<0.0049	<0.00526	<0.00522	<0.00479	<0.0048	<0.00597
1,2-Dibromo-3-chloropropane	SW-846 8260	96128	0.0999		<0.0049	<0.00526	<0.00522	<0.00479	<0.0048	<0.00597
1,2-Dibromoethane (EDB)	SW-846 8260	106934	0.0673		<0.0049	<0.00526	<0.00522	<0.00479	<0.0048	<0.00597
1,2-Dichloroethane	SW-846 8260	107062	0.621		<0.0049	<0.00526	<0.00522	<0.00479	<0.0048	<0.00597
1,2-Dichloropropane	SW-846 8260	78875	0.445		<0.0049	<0.00526	<0.00522	<0.00479	<0.0048	<0.00597
1,3,5-Trimethylbenzene	SW-846 8260	108678	436		<0.0049	<0.00526	<0.00522	<0.00479	<0.0048	<0.00597
1,4-Dioxane (p-Dioxane)	SW-846 8260	123911	520		<0.245	<0.263	<0.261	<0.239	<0.24	<0.298
2-Butanone (MEK)	SW-846 8260	78933	84.5		<0.00981	<0.0105	<0.0104	<0.00958	<0.00959	**0.0195**
2-Hexanone	SW-846 8260	591786	81800		<0.00981	<0.0105	<0.0104	<0.00958	<0.00959	<0.0119
4-Methyl-2-pentanone (MIBK)	SW-846 8260	108101	163000		<0.00981	<0.0105	<0.0104	<0.00958	<0.00959	<0.0119
4-Nitrophenol	SW-846 8270	100027	16400		<0.374	<0.421	<0.436	<0.412	<0.413	<0.454
Acetone	SW-846 8260	67641	104000		<0.00981	<0.0105	<0.0104	<0.00958	<0.00959	**0.0525**
Acetonitrile	SW-846 8260	75058	111		<0.0981	<0.105	<0.104	<0.0958	<0.0959	<0.119
Acetophenone	SW-846 8270	98862	2630		<0.374	<0.421	<0.436	<0.412	<0.413	<0.454
Acrolein	SW-846 8260	107028	40900		<0.0196	<0.021	<0.0209	<0.0192	<0.0192	<0.0239
Acrylonitrile	SW-846 8260	107131	10.6		<0.0196	<0.021	<0.0209	<0.0192	<0.0192	<0.0239
Allyl chloride	SW-846 8260	107051	NAV		<0.00981	<0.0105	<0.0104	<0.00958	<0.00959	<0.0119
Arsenic*	SW-846 6010	7440382	11.8		<1.1	<1.04	<1.31	<1.19	<0.984	**1.49**
Atrazine	SW-846 8270	1912249	25.8		<0.374	<0.421	<0.436	<0.412	<0.413	<0.454
Benzene	SW-846 8260	71432	1.36		<0.0049	<0.00526	<0.00522	<0.00479	<0.0048	<0.00597
bis(2-Ethylhexyl)phthalate	SW-846 8270	117817	409		<0.374	<0.421	<0.436	<0.412	<0.413	<0.454
Bromodichloromethane	SW-846 8260	75274	1.89		<0.0049	<0.00526	<0.00522	<0.00479	<0.0048	<0.00597
Bromoform	SW-846 8260	75252	90.1		<0.0049	<0.00526	<0.00522	<0.00479	<0.0048	<0.00597
Bromomethane	SW-846 8260	74839	2.97		<0.0049	<0.00526	<0.00522	<0.00479	<0.0048	<0.00597
Carbon disulfide	SW-846 8260	75150	7.97		<0.0049	<0.00526	<0.00522	<0.00479	<0.0048	<0.00597
Carbon tetrachloride	SW-846 8260	56235	0.569		<0.0049	<0.00526	<0.00522	**0.00598**	**0.00719**	<0.00597
Chlorobenzene	SW-846 8260	108907	1.19		<0.0049	<0.00526	<0.00522	<0.00479	<0.0048	<0.00597
Chloroethane	SW-846 8260	75003	1970		<0.0049	<0.00526	<0.00522	<0.00479	<0.0048	<0.00597
Chloroform	SW-846 8260	67663	0.478		<0.0049	<0.00526	<0.00522	**0.0486**	**0.0474**	<0.00597
Chloromethane	SW-846 8260	74873	440		<0.0049	<0.00526	<0.00522	<0.00479	<0.0048	<0.00597
Chloroprene	SW-846 8260	126998	4080		<0.0049	<0.00526	<0.00522	<0.00479	<0.0048	<0.00597
cis-1,3-Dichloropropene	SW-846 8260	10061015	0.352		<0.0049	<0.00526	<0.00522	<0.00479	<0.0048	<0.00597

Table 3. Summary of Soil Analytical Data, Site Characterization Report, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Parameter	Analytical Method	CAS No.	Soil Tier 1 TRG Restricted (mg/kg)	Sample ID: Sample Date:	GP-SB-09 (2-4) 2/13/2007	GP-SB-10 (0-2) 2/13/2007	GP-SB-10 (2-4) 2/13/2007	GP-SB-11 (0-2) 2/14/2007	GP-SB-11 (2-4) 2/14/2007	GP-SB-12 (0-2) 2/14/2007
Cyanazine	SW-846 8270	21725462	6.81		<0.374	<0.421	<0.436	<0.412	<0.413	<0.454
Dibromochloromethane	SW-846 8260	124481	68.1		<0.0049	<0.00526	<0.00522	<0.00479	<0.0048	<0.00597
Dibromomethane	SW-846 8260	74953	20400		<0.0049	<0.00526	<0.00522	<0.00479	<0.0048	<0.00597
Dichlorodifluoromethane	SW-846 8260	75718	409000		<0.0049	<0.00526	<0.00522	<0.00479	<0.0048	<0.00597
Dinoseb	SW-846 8151	88857	204		<0.0449	<0.0505	<0.0524	**0.463**	**2.51**	<0.545
Ethyl methacrylate	SW-846 8260	97632	18400		<0.00981	<0.0105	<0.0104	<0.00958	<0.00959	<0.0119
Ethylbenzene	SW-846 8260	100414	395		<0.0049	<0.00526	<0.00522	<0.00479	<0.0048	<0.00597
Iodomethane	SW-846 8260	74884	NAV		<0.0049	<0.00526	<0.00522	<0.00479	<0.0048	<0.00597
Isobutanol	SW-846 8260	78831	613000		<0.245	<0.263	<0.261	<0.239	<0.24	<0.298
m&p-Xylene	SW-846 8260	1330207	461		<0.0049	<0.00526	<0.00522	<0.00479	<0.0048	<0.00597
Methacrylonitrile	SW-846 8260	126987	204		<0.0981	<0.105	<0.104	<0.0958	<0.0959	<0.119
Methyl methacrylate	SW-846 8260	80626	16300		<0.00981	<0.0105	<0.0104	<0.00958	<0.00959	<0.0119
Methylene chloride	SW-846 8260	75092	21.9		<0.0049	<0.00526	<0.00522	<0.00479	<0.0048	<0.00597
o-Xylene	SW-846 8260	95476	413		<0.0049	<0.00526	<0.00522	<0.00479	<0.0048	<0.00597
Pentachlorophenol	SW-846 8270	87865	23.8		<0.374	<0.421	<0.436	<0.412	<0.413	<0.454
Propionitrile	SW-846 8260	107120	NAV		<0.0196	<0.021	<0.0209	<0.0192	<0.0192	<0.0239
Styrene	SW-846 8260	100425	384		<0.0049	<0.00526	<0.00522	<0.00479	<0.0048	<0.00597
Tetrachloroethene	SW-846 8260	127184	18.2		<0.0049	<0.00526	<0.00522	<0.00479	<0.0048	<0.00597
Toluene	SW-846 8260	108883	38		**0.00669**	**0.00667**	<0.00522	**0.00512**	<0.0048	<0.00597
Toxaphene	SW-846 8081	8001352	5.2		<0.0748	<0.0843	<0.0873	<0.0825	<0.0827	**1.8**
trans-1,2-Dichloroethene	SW-846 8260	156605	3070		<0.0049	<0.00526	<0.00522	<0.00479	<0.0048	<0.00597
trans-1,3-Dichloropropene	SW-846 8260	10061026	0.352		<0.0049	<0.00526	<0.00522	<0.00479	<0.0048	<0.00597
trans-1,4-Dichloro-2-butene	SW-846 8260	110576	NAV		<0.0049	<0.00526	<0.00522	<0.00479	<0.0048	<0.00597
Trichloroethene	SW-846 8260	79016	7.92		<0.0049	<0.00526	<0.00522	<0.00479	<0.0048	<0.00597
Trichlorofluoromethane	SW-846 8260	75694	143000		<0.0049	<0.00526	<0.00522	<0.00479	<0.0048	<0.00597
Vinyl acetate	SW-846 8260	108054	9.13		<0.00981	<0.0105	<0.0104	<0.00958	<0.00959	<0.0119
Vinyl chloride	SW-846 8260	75014	0.939		<0.0049	<0.00526	<0.00522	<0.00479	<0.0048	<0.00597

All concentrations are in milligrams per kilogram (mg/kg).

J Estimated value.

NA Not analyzed.

NAV Not available.

R Rejected.

TRG Target Remediation Goal.

UB Non-detect due to associated blank contamination.

Shaded result indicates concentration above TRG (restricted).

* 11.8 mg/kg based on MDEQ approval of the Upper Confidence Limit (UCL) of the mean of the background concentration.

ARCADIS

Table 3. Summary of Soil Analytical Data, Site Characterization Report, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Parameter	Analytical Method	CAS No.	Soil Tier 1 TRG Restricted (mg/kg)	Sample ID: Sample Date:	GP-SB-12 (2-4) 2/14/2007	GP-SB-13 (0-2) 2/14/2007	GP-SB-13 (2-4) 2/14/2007	GP-SB-13B (2-4) 4/18/2007	GP-SB-13B (4-6) 4/18/2007	GP-SB-14 (0-2) 2/14/2007	GP-SB-DUP-02 GP-SB-14 (0-2) 2/14/2007
1,1,1,2-Tetrachloroethane	SW-846 8260	630206	220		<0.0065	<0.00471	<0.0049	NA	NA	<0.0047	<0.00457
1,1,1-Trichloroethane	SW-846 8260	71556	1190		<0.0065	<0.00471	<0.0049	NA	NA	<0.0047	<0.00457
1,1,2,2-Tetrachloroethane	SW-846 8260	79345	1		<0.0065	<0.00471	<0.0049	NA	NA	<0.0047	<0.00457
1,1,2-Trichloroethane	SW-846 8260	79005	1.67		<0.0065	<0.00471	<0.0049	NA	NA	<0.0047	<0.00457
1,1-Dichloroethane	SW-846 8260	75343	116		<0.0065	<0.00471	<0.0049	NA	NA	<0.0047	<0.00457
1,1-Dichloroethene	SW-846 8260	75354	0.118		<0.0065	<0.00471	<0.0049	NA	NA	<0.0047	<0.00457
1,2,3-Trichloropropane	SW-846 8260	96184	0.818		<0.0065	<0.00471	<0.0049	NA	NA	<0.0047	<0.00457
1,2,4-Trimethylbenzene	SW-846 8260	95636	102000		<0.0065	<0.00471	<0.0049	NA	NA	<0.0047	<0.00457
1,2-Dibromo-3-chloropropane	SW-846 8260	96128	0.0999		<0.0065	<0.00471	<0.0049	NA	NA	<0.0047	<0.00457
1,2-Dibromoethane (EDB)	SW-846 8260	106934	0.0673		<0.0065	<0.00471	<0.0049	NA	NA	<0.0047	<0.00457
1,2-Dichloroethane	SW-846 8260	107062	0.621		<0.0065	<0.00471	<0.0049	NA	NA	<0.0047	<0.00457
1,2-Dichloropropane	SW-846 8260	78875	0.445		<0.0065	<0.00471	<0.0049	NA	NA	<0.0047	<0.00457
1,3,5-Trimethylbenzene	SW-846 8260	108678	436		<0.0065	<0.00471	<0.0049	NA	NA	<0.0047	<0.00457
1,4-Dioxane (p-Dioxane)	SW-846 8260	123911	520		<0.325	<0.235	<0.245	NA	NA	<0.235	<0.228
2-Butanone (MEK)	SW-846 8260	78933	84.5		**0.02**	<0.00941	<0.0098	NA	NA	<0.0094	<0.00913
2-Hexanone	SW-846 8260	591786	81800		<0.013	<0.00941	<0.0098	NA	NA	<0.0094	<0.00913
4-Methyl-2-pentanone (MIBK)	SW-846 8260	108101	163000		<0.013	<0.00941	<0.0098	NA	NA	<0.0094	<0.00913
4-Nitrophenol	SW-846 8270	100027	16400		<0.461	<0.39	<0.41	NA	NA	<0.404	<0.403
Acetone	SW-846 8260	67641	104000		**0.057**	<0.00941	<0.0098	NA	NA	**0.0131**	**0.0113**
Acetonitrile	SW-846 8260	75058	111		<0.13	<0.0941	<0.098	NA	NA	<0.094	<0.0913
Acetophenone	SW-846 8270	98862	2630		<0.461	<0.39	<0.41	NA	NA	<0.404	<0.403
Acrolein	SW-846 8260	107028	40900		<0.026	<0.0188	<0.0196	NA	NA	<0.0188	<0.0183
Acrylonitrile	SW-846 8260	107131	10.6		<0.026	<0.0188	<0.0196	NA	NA	<0.0188	<0.0183
Allyl chloride	SW-846 8260	107051	NAV		<0.013	<0.00941	<0.0098	NA	NA	<0.0094	<0.00913
Arsenic*	SW-846 6010	7440382	11.8		<1.31	**3.08**	<1.21	NA	NA	<1.19	<1.12
Atrazine	SW-846 8270	1912249	25.8		<0.461	<0.39	<0.41	NA	NA	<0.404	<0.403
Benzene	SW-846 8260	71432	1.36		<0.0065	<0.00471	<0.0049	NA	NA	<0.0047	<0.00457
bis(2-Ethylhexyl)phthalate	SW-846 8270	117817	409		<0.461	<0.39	<0.41	NA	NA	<0.404	<0.403
Bromodichloromethane	SW-846 8260	75274	1.89		<0.0065	<0.00471	<0.0049	NA	NA	<0.0047	<0.00457
Bromoform	SW-846 8260	75252	90.1		<0.0065	<0.00471	<0.0049	NA	NA	<0.0047	<0.00457
Bromomethane	SW-846 8260	74839	2.97		<0.0065	<0.00471	<0.0049	NA	NA	<0.0047	<0.00457
Carbon disulfide	SW-846 8260	75150	7.97		<0.0065	<0.00471	<0.0049	NA	NA	<0.0047	<0.00457
Carbon tetrachloride	SW-846 8260	56235	0.569		<0.0065	<0.00471	<0.0049	NA	NA	<0.0047	<0.00457
Chlorobenzene	SW-846 8260	108907	1.19		<0.0065	<0.00471	<0.0049	NA	NA	<0.0047	<0.00457
Chloroethane	SW-846 8260	75003	1970		<0.0065	<0.00471	<0.0049	NA	NA	<0.0047	<0.00457
Chloroform	SW-846 8260	67663	0.478		<0.0065	<0.00471	<0.0049	NA	NA	<0.0047	<0.00457
Chloromethane	SW-846 8260	74873	440		<0.0065	<0.00471	<0.0049	NA	NA	<0.0047	<0.00457
Chloroprene	SW-846 8260	126998	4080		<0.0065	<0.00471	<0.0049	NA	NA	<0.0047	<0.00457
cis-1,3-Dichloropropene	SW-846 8260	10061015	0.352		<0.0065	<0.00471	<0.0049	NA	NA	<0.0047	<0.00457

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Table 3. Summary of Soil Analytical Data, Site Characterization Report, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Parameter	Analytical Method	CAS No.	Soil Tier 1 TRG Restricted (mg/kg)	Sample ID: Sample Date:	GP-SB-12 (2-4) 2/14/2007	GP-SB-13 (0-2) 2/14/2007	GP-SB-13 (2-4) 2/14/2007	GP-SB-13B (2-4) 4/18/2007	GP-SB-13B (4-6) 4/18/2007	GP-SB-14 (0-2) 2/14/2007	GP-SB-DUP-02 GP-SB-14 (0-2) 2/14/2007
Cyanazine	SW-846 8270	21725462	6.81		<0.461	<0.39	<0.41	NA	NA	<0.404	<0.403
Dibromochloromethane	SW-846 8260	124481	68.1		<0.0065	<0.00471	<0.0049	NA	NA	<0.0047	<0.00457
Dibromomethane	SW-846 8260	74953	20400		<0.0065	<0.00471	<0.0049	NA	NA	<0.0047	<0.00457
Dichlorodifluoromethane	SW-846 8260	75718	409000		<0.0065	<0.00471	<0.0049	NA	NA	<0.0047	<0.00457
Dinoseb	SW-846 8151	88857	204		<0.0554	<0.0468	<0.0492	NA	NA	<0.486	<0.484
Ethyl methacrylate	SW-846 8260	97632	18400		<0.013	<0.00941	<0.0098	NA	NA	<0.0094	<0.00913
Ethylbenzene	SW-846 8260	100414	395		<0.0065	<0.00471	<0.0049	NA	NA	<0.0047	<0.00457
Iodomethane	SW-846 8260	74884	NAV		<0.0065	<0.00471	<0.0049	NA	NA	<0.0047	<0.00457
Isobutanol	SW-846 8260	78831	613000		<0.325	<0.235	<0.245	NA	NA	<0.235	<0.228
m&p-Xylene	SW-846 8260	1330207	461		<0.0065	<0.00471	<0.0049	NA	NA	<0.0047	<0.00457
Methacrylonitrile	SW-846 8260	126987	204		<0.13	<0.0941	<0.098	NA	NA	<0.094	<0.0913
Methyl methacrylate	SW-846 8260	80626	16300		<0.013	<0.00941	<0.0098	NA	NA	<0.0094	<0.00913
Methylene chloride	SW-846 8260	75092	21.9		<0.0065	<0.00471	<0.0049	NA	NA	<0.0047	<0.00457
o-Xylene	SW-846 8260	95476	413		<0.0065	<0.00471	<0.0049	NA	NA	<0.0047	<0.00457
Pentachlorophenol	SW-846 8270	87865	23.8		<0.461	<0.39	<0.41	NA	NA	<0.404	<0.403
Propionitrile	SW-846 8260	107120	NAV		<0.026	<0.0188	<0.0196	NA	NA	<0.0188	<0.0183
Styrene	SW-846 8260	100425	384		<0.0065	<0.00471	<0.0049	NA	NA	<0.0047	<0.00457
Tetrachloroethene	SW-846 8260	127184	18.2		<0.0065	<0.00471	<0.0049	NA	NA	<0.0047	<0.00457
Toluene	SW-846 8260	108883	38		<0.0065	**0.00631**	<0.0049	NA	NA	<0.0047	<0.00457
Toxaphene	SW-846 8081	8001352	5.2		**0.12**	<0.0781	**9.28**	<0.0842	<0.0842	<0.081	<0.0808
trans-1,2-Dichloroethene	SW-846 8260	156605	3070		<0.0065	<0.00471	<0.0049	NA	NA	<0.0047	<0.00457
trans-1,3-Dichloropropene	SW-846 8260	10061026	0.352		<0.0065	<0.00471	<0.0049	NA	NA	<0.0047	<0.00457
trans-1,4-Dichloro-2-butene	SW-846 8260	110576	NAV		<0.0065	<0.00471	<0.0049	NA	NA	<0.0047	<0.00457
Trichloroethene	SW-846 8260	79016	7.92		<0.0065	<0.00471	<0.0049	NA	NA	<0.0047	<0.00457
Trichlorofluoromethane	SW-846 8260	75694	143000		<0.0065	<0.00471	<0.0049	NA	NA	<0.0047	<0.00457
Vinyl acetate	SW-846 8260	108054	9.13		<0.013	<0.00941	<0.0098	NA	NA	<0.0094	<0.00913
Vinyl chloride	SW-846 8260	75014	0.939		<0.0065	<0.00471	<0.0049	NA	NA	<0.0047	<0.00457

All concentrations are in milligrams per kilogram (mg/kg).

J Estimated value.

NA Not analyzed.

NAV Not available.

R Rejected.

TRG Target Remediation Goal.

UB Non-detect due to associated blank contamination.

Shaded result indicates concentration above TRG (restricted).

* 11.8 mg/kg based on MDEQ approval of the Upper Confidence Limit (UCL) of the mean of the background concentration.

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Table 3. Summary of Soil Analytical Data, Site Characterization Report, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Parameter	Analytical Method	CAS No.	Soil Tier 1 TRG Restricted (mg/kg)	Sample ID: Sample Date:	GP-SB-14 (2-4) 2/14/2007	GP-SB-15 (0-2) 2/14/2007	GP-SB-15 (2-4) 2/14/2007	GP-SB-16 (0-2) 2/14/2007	GP-SB-16 (2-4) 2/14/2007	GP-SB-17 (0-2) 2/15/2007	GP-SB-17 (2-4) 2/15/2007
1,1,1,2-Tetrachloroethane	SW-846 8260	630206	220		<0.00501	<0.0048	<0.00482	<0.00515	<0.00483	<0.00486	<0.00484
1,1,1-Trichloroethane	SW-846 8260	71556	1190		<0.00501	<0.0048	<0.00482	<0.00515	<0.00483	<0.00486	<0.00484
1,1,2,2-Tetrachloroethane	SW-846 8260	79345	1		<0.00501	<0.0048	<0.00482	<0.00515	<0.00483	<0.00486	<0.00484
1,1,2-Trichloroethane	SW-846 8260	79005	1.67		<0.00501	<0.0048	<0.00482	<0.00515	<0.00483	<0.00486	<0.00484
1,1-Dichloroethane	SW-846 8260	75343	116		<0.00501	<0.0048	<0.00482	<0.00515	<0.00483	<0.00486	<0.00484
1,1-Dichloroethene	SW-846 8260	75354	0.118		<0.00501	<0.0048	<0.00482	<0.00515	<0.00483	<0.00486	<0.00484
1,2,3-Trichloropropane	SW-846 8260	96184	0.818		<0.00501	<0.0048	<0.00482	<0.00515	<0.00483	<0.00486	<0.00484
1,2,4-Trimethylbenzene	SW-846 8260	95636	102000		<0.00501	<0.0048	<0.00482	<0.00515	<0.00483	<0.00486	<0.00484
1,2-Dibromo-3-chloropropane	SW-846 8260	96128	0.0999		<0.00501	<0.0048	<0.00482	<0.00515	<0.00483	<0.00486	<0.00484
1,2-Dibromoethane (EDB)	SW-846 8260	106934	0.0673		<0.00501	<0.0048	<0.00482	<0.00515	<0.00483	<0.00486	<0.00484
1,2-Dichloroethane	SW-846 8260	107062	0.621		<0.00501	<0.0048	<0.00482	<0.00515	<0.00483	<0.00486	<0.00484
1,2-Dichloropropane	SW-846 8260	78875	0.445		<0.00501	<0.0048	<0.00482	<0.00515	<0.00483	<0.00486	<0.00484
1,3,5-Trimethylbenzene	SW-846 8260	108678	436		<0.00501	<0.0048	<0.00482	<0.00515	<0.00483	<0.00486	<0.00484
1,4-Dioxane (p-Dioxane)	SW-846 8260	123911	520		<0.251	<0.24	<0.241	<0.257	<0.242	<0.243	<0.242
2-Butanone (MEK)	SW-846 8260	78933	84.5		<0.01	<0.0096	<0.00965	<0.0103	<0.00966	<0.00972	<0.00968
2-Hexanone	SW-846 8260	591786	81800		<0.01	<0.0096	<0.00965	<0.00515	<0.00966	<0.00972	<0.00968
4-Methyl-2-pentanone (MIBK)	SW-846 8260	108101	163000		<0.01	<0.0096	<0.00965	<0.00515	<0.00966	<0.00972	<0.00968
4-Nitrophenol	SW-846 8270	100027	16400		<0.403	<0.401	<0.404	<0.392	<0.396	<0.417	<0.416
Acetone	SW-846 8260	67641	104000		<0.01	**0.0188**	<0.00965	<0.0103	**0.0424**	<0.00972	**0.0162 UB**
Acetonitrile	SW-846 8260	75058	111		<0.1	<0.096	<0.0965	<0.103	<0.0966	<0.0972	<0.0968
Acetophenone	SW-846 8270	98862	2630		<0.403	<0.401	<0.404	<0.392	<0.396	<0.417	<0.416
Acrolein	SW-846 8260	107028	40900		<0.0201	<0.0192	<0.0193	<0.0206	<0.0193	<0.0194	<0.0194
Acrylonitrile	SW-846 8260	107131	10.6		<0.0201	<0.0192	<0.0193	<0.0206	<0.0193	<0.0194	<0.0194
Allyl chloride	SW-846 8260	107051	NAV		<0.01	<0.0096	<0.00965	<0.0103	<0.00966	<0.00972	<0.00968
Arsenic*	SW-846 6010	7440382	11.8		**5.97**	**1.6**	<1.14	**4.09**	<1.08	<1.14	<0.992
Atrazine	SW-846 8270	1912249	25.8		<0.403	<0.401	<0.404	<0.392	<0.396	<0.417	<0.416
Benzene	SW-846 8260	71432	1.36		<0.00501	<0.0048	<0.00482	<0.00515	<0.00483	<0.00486	<0.00484
bis(2-Ethylhexyl)phthalate	SW-846 8270	117817	409		<0.403	<0.401	<0.404	<0.392	<0.396	<0.417	<0.416
Bromodichloromethane	SW-846 8260	75274	1.89		<0.00501	<0.0048	<0.00482	<0.00515	<0.00483	<0.00486	<0.00484
Bromoform	SW-846 8260	75252	90.1		<0.00501	<0.0048	<0.00482	<0.00515	<0.00483	<0.00486	<0.00484
Bromomethane	SW-846 8260	74839	2.97		<0.00501	<0.0048	<0.00482	<0.00515	<0.00483	<0.00486	<0.00484
Carbon disulfide	SW-846 8260	75150	7.97		<0.00501	<0.0048	<0.00482	<0.00515	<0.00483	<0.00486	<0.00484
Carbon tetrachloride	SW-846 8260	56235	0.569		<0.00501	<0.0048	<0.00482	<0.00515	<0.00483	<0.00486	<0.00484
Chlorobenzene	SW-846 8260	108907	1.19		<0.00501	<0.0048	<0.00482	<0.00515	<0.00483	<0.00486	<0.00484
Chloroethane	SW-846 8260	75003	1970		<0.00501	<0.0048	<0.00482	<0.00515	<0.00483	<0.00486	<0.00484
Chloroform	SW-846 8260	67663	0.478		<0.00501	<0.0048	<0.00482	<0.00515	<0.00483	<0.00486	<0.00484
Chloromethane	SW-846 8260	74873	440		<0.00501	<0.0048	<0.00482	<0.00515	<0.00483	<0.00486	<0.00484
Chloroprene	SW-846 8260	126998	4080		<0.00501	<0.0048	<0.00482	<0.00515	<0.00483	<0.00486	<0.00484
cis-1,3-Dichloropropene	SW-846 8260	10061015	0.352		<0.00501	<0.0048	<0.00482	<0.00515	<0.00483	<0.00486	<0.00484

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Table 3. Summary of Soil Analytical Data, Site Characterization Report, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Parameter	Analytical Method	CAS No.	Soil Tier 1 TRG Restricted (mg/kg)	Sample ID: Sample Date:	GP-SB-14 (2-4) 2/14/2007	GP-SB-15 (0-2) 2/14/2007	GP-SB-15 (2-4) 2/14/2007	GP-SB-16 (0-2) 2/14/2007	GP-SB-16 (2-4) 2/14/2007	GP-SB-17 (0-2) 2/15/2007	GP-SB-17 (2-4) 2/15/2007
Cyanazine	SW-846 8270	21725462	6.81		<0.403	<0.401	<0.404	<0.392	<0.396	<0.417	<0.416
Dibromochloromethane	SW-846 8260	124481	68.1		<0.00501	<0.0048	<0.00482	<0.00515	<0.00483	<0.00486	<0.00484
Dibromomethane	SW-846 8260	74953	20400		<0.00501	<0.0048	<0.00482	<0.00515	<0.00483	<0.00486	<0.00484
Dichlorodifluoromethane	SW-846 8260	75718	409000		<0.00501	<0.0048	<0.00482	<0.00515	<0.00483	<0.00486	<0.00484
Dinoseb	SW-846 8151	88857	204		<0.484	<0.481	<0.485	<0.943	<0.0476	NA	NA
Ethyl methacrylate	SW-846 8260	97632	18400		<0.01	<0.0096	<0.00965	<0.0103	<0.00966	<0.00972	<0.00968
Ethylbenzene	SW-846 8260	100414	395		<0.00501	<0.0048	<0.00482	<0.00515	<0.00483	<0.00486	<0.00484
Iodomethane	SW-846 8260	74884	NAV		<0.00501	<0.0048	<0.00482	<0.00515	<0.00483	<0.00486	<0.00484
Isobutanol	SW-846 8260	78831	613000		<0.251	<0.24	<0.241	<0.00515	<0.242	<0.243	<0.242
m&p-Xylene	SW-846 8260	1330207	461		<0.00501	<0.0048	<0.00482	<0.00515	<0.00483	<0.00486	<0.00484
Methacrylonitrile	SW-846 8260	126987	204		<0.1	<0.096	<0.0965	<0.00515	<0.0966	<0.0972	<0.0968
Methyl methacrylate	SW-846 8260	80626	16300		<0.01	<0.0096	<0.00965	<0.00515	<0.00966	<0.00972	<0.00968
Methylene chloride	SW-846 8260	75092	21.9		<0.00501	<0.0048	<0.00482	<0.00515	<0.00483	<0.00486	<0.00484
o-Xylene	SW-846 8260	95476	413		<0.00501	<0.0048	<0.00482	<0.00515	<0.00483	<0.00486	<0.00484
Pentachlorophenol	SW-846 8270	87865	23.8		<0.403	<0.401	<0.404	<0.392	<0.396	<0.417	<0.416
Propionitrile	SW-846 8260	107120	NAV		<0.0201	<0.0192	<0.0193	<0.00515	<0.0193	<0.0194	<0.0194
Styrene	SW-846 8260	100425	384		<0.00501	<0.0048	<0.00482	<0.00515	<0.00483	<0.00486	<0.00484
Tetrachloroethene	SW-846 8260	127184	18.2		<0.00501	<0.0048	<0.00482	<0.00515	<0.00483	<0.00486	<0.00484
Toluene	SW-846 8260	108883	38		**0.0054**	**0.00562**	**0.00508**	**0.00588**	**0.00605**	**0.000952 J**	<0.00484
Toxaphene	SW-846 8081	8001352	5.2		<0.0807	<0.0803	**0.747**	**25.8**	<0.0793	NA	NA
trans-1,2-Dichloroethene	SW-846 8260	156605	3070		<0.00501	<0.0048	<0.00482	<0.00515	<0.00483	<0.00486	<0.00484
trans-1,3-Dichloropropene	SW-846 8260	10061026	0.352		<0.00501	<0.0048	<0.00482	<0.00515	<0.00483	<0.00486	<0.00484
trans-1,4-Dichloro-2-butene	SW-846 8260	110576	NAV		<0.00501	<0.0048	<0.00482	<0.00515	<0.00483	<0.00486	<0.00484
Trichloroethene	SW-846 8260	79016	7.92		<0.00501	<0.0048	<0.00482	<0.00515	<0.00483	<0.00486	<0.00484
Trichlorofluoromethane	SW-846 8260	75694	143000		<0.00501	<0.0048	<0.00482	<0.00515	<0.00483	<0.00486	<0.00484
Vinyl acetate	SW-846 8260	108054	9.13		<0.01	<0.0096	<0.00965	<0.00515	<0.00966	<0.00972	<0.00968
Vinyl chloride	SW-846 8260	75014	0.939		<0.00501	<0.0048	<0.00482	<0.00515	<0.00483	<0.00486	<0.00484

All concentrations are in milligrams per kilogram (mg/kg).

J Estimated value.

NA Not analyzed.

NAV Not available.

R Rejected.

TRG Target Remediation Goal.

UB Non-detect due to associated blank contamination.

Shaded result indicates concentration above TRG (restricted).

* 11.8 mg/kg based on MDEQ approval of the Upper Confidence Limit (UCL) of the mean of the background concentration.

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Table 3. Summary of Soil Analytical Data, Site Characterization Report, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Parameter	Analytical Method	CAS No.	Soil Tier 1 TRG Restricted (mg/kg)	Sample ID: Sample Date:	GP-SB-18 (0-2) 2/15/2007	GP-SB-18 (2-4) 2/15/2007	GP-SB-19 (0-2) 2/15/2007	GP-SB-19 (2-4) 2/15/2007	GP-SB-20 (0-2) 2/15/2007	GP-SB-20 (2-4) 2/15/2007
1,1,1,2-Tetrachloroethane	SW-846 8260	630206	220		<0.00491	<0.00474	<0.00493	<0.00507	<0.00471	<0.00491
1,1,1-Trichloroethane	SW-846 8260	71556	1190		<0.00491	<0.00474	<0.00493	<0.00507	<0.00471	<0.00491
1,1,2,2-Tetrachloroethane	SW-846 8260	79345	1		<0.00491	<0.00474	<0.00493	<0.00507	<0.00471	<0.00491
1,1,2-Trichloroethane	SW-846 8260	79005	1.67		<0.00491	<0.00474	<0.00493	<0.00507	<0.00471	<0.00491
1,1-Dichloroethane	SW-846 8260	75343	116		<0.00491	<0.00474	<0.00493	<0.00507	<0.00471	<0.00491
1,1-Dichloroethene	SW-846 8260	75354	0.118		<0.00491	<0.00474	<0.00493	<0.00507	<0.00471	<0.00491
1,2,3-Trichloropropane	SW-846 8260	96184	0.818		<0.00491	<0.00474	<0.00493	<0.00507	<0.00471	<0.00491
1,2,4-Trimethylbenzene	SW-846 8260	95636	102000		<0.00491	<0.00474	**0.00363 J**	**0.00247 J**	**0.00248 J**	<0.00491
1,2-Dibromo-3-chloropropane	SW-846 8260	96128	0.0999		<0.00491	<0.00474	<0.00493	<0.00507	<0.00471	<0.00491
1,2-Dibromoethane (EDB)	SW-846 8260	106934	0.0673		<0.00491	<0.00474	<0.00493	<0.00507	<0.00471	<0.00491
1,2-Dichloroethane	SW-846 8260	107062	0.621		<0.00491	<0.00474	<0.00493	<0.00507	<0.00471	<0.00491
1,2-Dichloropropane	SW-846 8260	78875	0.445		<0.00491	<0.00474	<0.00493	<0.00507	<0.00471	<0.00491
1,3,5-Trimethylbenzene	SW-846 8260	108678	436		<0.00491	<0.00474	**0.00112 J**	**0.000862 J**	**0.00081 J**	<0.00491
1,4-Dioxane (p-Dioxane)	SW-846 8260	123911	520		<0.245	<0.237	<0.246	<0.254	<0.236	<0.245
2-Butanone (MEK)	SW-846 8260	78933	84.5		<0.00982	<0.00949	<0.00986	<0.0101	<0.00942	<0.00981
2-Hexanone	SW-846 8260	591786	81800		<0.00982	<0.00949	<0.00986	<0.0101	<0.00942	<0.00981
4-Methyl-2-pentanone (MIBK)	SW-846 8260	108101	163000		<0.00982	<0.00949	<0.00986	<0.0101	<0.00942	<0.00981
4-Nitrophenol	SW-846 8270	100027	16400		<0.415	<0.416	<0.4	<0.415 J	<0.398	<0.418
Acetone	SW-846 8260	67641	104000		**0.021 UB**	**0.0171 UB**	<0.00986	<0.0101	<0.00942	<0.00981
Acetonitrile	SW-846 8260	75058	111		<0.0982	<0.0949	<0.0986	<0.101	<0.0942	<0.0981
Acetophenone	SW-846 8270	98862	2630		<0.415	<0.416	<0.4	<0.415 J	<0.398	<0.418
Acrolein	SW-846 8260	107028	40900		<0.0196	<0.019	<0.0197	<0.0203	<0.0188	<0.0196
Acrylonitrile	SW-846 8260	107131	10.6		<0.0196	<0.019	<0.0197	<0.0203	<0.0188	<0.0196
Allyl chloride	SW-846 8260	107051	NAV		<0.00982	<0.00949	<0.00986	<0.0101	<0.00942	<0.00981
Arsenic*	SW-846 6010	7440382	11.8		<0.83	<1.01	<1.15	**4.07**	**1.61**	**2.68**
Atrazine	SW-846 8270	1912249	25.8		<0.415	<0.416	<0.4	<0.415 J	<0.398	<0.418
Benzene	SW-846 8260	71432	1.36		<0.00491	<0.00474	**0.00383 J**	**0.00282 J**	**0.0028 J**	**0.00144 J**
bis(2-Ethylhexyl)phthalate	SW-846 8270	117817	409		<0.415	<0.416	<0.4	<0.415 J	<0.398	<0.418
Bromodichloromethane	SW-846 8260	75274	1.89		<0.00491	<0.00474	<0.00493	<0.00507	<0.00471	<0.00491
Bromoform	SW-846 8260	75252	90.1		<0.00491	<0.00474	<0.00493	<0.00507	<0.00471	<0.00491
Bromomethane	SW-846 8260	74839	2.97		<0.00491	<0.00474	<0.00493	<0.00507	<0.00471	<0.00491
Carbon disulfide	SW-846 8260	75150	7.97		<0.00491	<0.00474	<0.00493	<0.00507	<0.00471	<0.00491
Carbon tetrachloride	SW-846 8260	56235	0.569		<0.00491	<0.00474	<0.00493	<0.00507	<0.00471	<0.00491
Chlorobenzene	SW-846 8260	108907	1.19		<0.00491	<0.00474	<0.00493	<0.00507	<0.00471	<0.00491
Chloroethane	SW-846 8260	75003	1970		<0.00491	<0.00474	<0.00493	<0.00507	<0.00471	<0.00491
Chloroform	SW-846 8260	67663	0.478		<0.00491	<0.00474	<0.00493	<0.00507	<0.00471	<0.00491
Chloromethane	SW-846 8260	74873	440		<0.00491	<0.00474	<0.00493	<0.00507	<0.00471	<0.00491
Chloroprene	SW-846 8260	126998	4080		<0.00491	<0.00474	<0.00493	<0.00507	<0.00471	<0.00491
cis-1,3-Dichloropropene	SW-846 8260	10061015	0.352		<0.00491	<0.00474	<0.00493	<0.00507	<0.00471	<0.00491

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Table 3. Summary of Soil Analytical Data, Site Characterization Report, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Parameter	Analytical Method	CAS No.	Soil Tier 1 TRG Restricted (mg/kg)	Sample ID: Sample Date:	GP-SB-18 (0-2) 2/15/2007	GP-SB-18 (2-4) 2/15/2007	GP-SB-19 (0-2) 2/15/2007	GP-SB-19 (2-4) 2/15/2007	GP-SB-20 (0-2) 2/15/2007	GP-SB-20 (2-4) 2/15/2007
Cyanazine	SW-846 8270	21725462	6.81		<0.415	<0.416	<0.4	<0.415 J	<0.398	<0.418
Dibromochloromethane	SW-846 8260	124481	68.1		<0.00491	<0.00474	<0.00493	<0.00507	<0.00471	<0.00491
Dibromomethane	SW-846 8260	74953	20400		<0.00491	<0.00474	<0.00493	<0.00507	<0.00471	<0.00491
Dichlorodifluoromethane	SW-846 8260	75718	409000		<0.00491	<0.00474	<0.00493	<0.00507	<0.00471	<0.00491
Dinoseb	SW-846 8151	88857	204		<0.0498	<0.0499	<0.048 R	<0.0499 J	<0.0478 J	<0.0502 R
Ethyl methacrylate	SW-846 8260	97632	18400		<0.00982	<0.00949	<0.00986	<0.0101	<0.00942	<0.00981
Ethylbenzene	SW-846 8260	100414	395		<0.00491	<0.00474	**0.00356 J**	**0.00258 J**	**0.00243 J**	**0.000971 J**
Iodomethane	SW-846 8260	74884	NAV		**0.00101 J**	<0.00474	<0.00493	<0.00507	<0.00471	<0.00491
Isobutanol	SW-846 8260	78831	613000		<0.245	<0.237	<0.246	<0.254	<0.236	<0.245
m&p-Xylene	SW-846 8260	1330207	461		<0.00491	<0.00474	**0.00567**	**0.00379 J**	**0.00395 J**	**0.00177 J**
Methacrylonitrile	SW-846 8260	126987	204		<0.0982	<0.0949	<0.0986	<0.101	<0.0942	<0.0981
Methyl methacrylate	SW-846 8260	80626	16300		<0.00982	<0.00949	<0.00986	<0.0101	<0.00942	<0.00981
Methylene chloride	SW-846 8260	75092	21.9		<0.00491	<0.00474	<0.00493	<0.00507	<0.00471	<0.00491
o-Xylene	SW-846 8260	95476	413		<0.00491	<0.00474	**0.00279 J**	**0.00185 J**	**0.00184 J**	**0.000824 J**
Pentachlorophenol	SW-846 8270	87865	23.8		<0.415	<0.416	<0.4	<0.415 J	<0.398	<0.418
Propionitrile	SW-846 8260	107120	NAV		<0.0196	<0.019	<0.0197	<0.0203	<0.0188	<0.0196
Styrene	SW-846 8260	100425	384		<0.00491	<0.00474	<0.00493	<0.00507	<0.00471	<0.00491
Tetrachloroethene	SW-846 8260	127184	18.2		<0.00491	<0.00474	<0.00493	<0.00507	<0.00471	<0.00491
Toluene	SW-846 8260	108883	38		<0.00491	<0.00474	**0.00931**	**0.00692**	**0.0064**	**0.00238 J**
Toxaphene	SW-846 8081	8001352	5.2		<0.083	<0.0833	<0.0801	<0.0832 J	<0.0797	<0.0838
trans-1,2-Dichloroethene	SW-846 8260	156605	3070		<0.00491	<0.00474	<0.00493	<0.00507	<0.00471	<0.00491
trans-1,3-Dichloropropene	SW-846 8260	10061026	0.352		<0.00491	<0.00474	<0.00493	<0.00507	<0.00471	<0.00491
trans-1,4-Dichloro-2-butene	SW-846 8260	110576	NAV		<0.00491	<0.00474	<0.00493	<0.00507	<0.00471	<0.00491
Trichloroethene	SW-846 8260	79016	7.92		<0.00491	<0.00474	<0.00493	<0.00507	<0.00471	<0.00491
Trichlorofluoromethane	SW-846 8260	75694	143000		<0.00491	<0.00474	<0.00493	<0.00507	<0.00471	<0.00491
Vinyl acetate	SW-846 8260	108054	9.13		<0.00982	<0.00949	<0.00986	<0.0101	<0.00942	<0.00981
Vinyl chloride	SW-846 8260	75014	0.939		<0.00491	<0.00474	<0.00493	<0.00507	<0.00471	<0.00491

All concentrations are in milligrams per kilogram (mg/kg).

J Estimated value.

NA Not analyzed.

NAV Not available.

R Rejected.

TRG Target Remediation Goal.

UB Non-detect due to associated blank contamination.

Shaded result indicates concentration above TRG (restricted).

* 11.8 mg/kg based on MDEQ approval of the Upper Confidence Limit (UCL) of the mean of the background concentration.

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Table 3. Summary of Soil Analytical Data, Site Characterization Report, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Parameter	Analytical Method	CAS No.	Soil Tier 1 TRG Restricted (mg/kg)	Sample ID: Sample Date:	GP-SB-21 (0-2) 2/15/2007	GP-SB-21 (2-4) 2/15/2007	GP-SB-DUP-03 GP-SB-21 (2-4) 2/15/2007	GP-SB-27 (0-2) 4/18/2007	GP-SB-27 (2-4) 4/18/2007	GP-SB-28 (0-2) 4/18/2007	GP-SB-28 (2-4) 4/18/2007
1,1,1,2-Tetrachloroethane	SW-846 8260	630206	220		<0.00474	<0.00516	<0.00513	NA	NA	NA	NA
1,1,1-Trichloroethane	SW-846 8260	71556	1190		<0.00474	<0.00516	<0.00513	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	SW-846 8260	79345	1		<0.00474	<0.00516	<0.00513	NA	NA	NA	NA
1,1,2-Trichloroethane	SW-846 8260	79005	1.67		<0.00474	<0.00516	<0.00513	NA	NA	NA	NA
1,1-Dichloroethane	SW-846 8260	75343	116		<0.00474	<0.00516	<0.00513	NA	NA	NA	NA
1,1-Dichloroethene	SW-846 8260	75354	0.118		<0.00474	<0.00516	<0.00513	NA	NA	NA	NA
1,2,3-Trichloropropane	SW-846 8260	96184	0.818		<0.00474	<0.00516	<0.00513	NA	NA	NA	NA
1,2,4-Trimethylbenzene	SW-846 8260	95636	102000		**0.00131 J**	<0.00516	<0.00513	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	SW-846 8260	96128	0.0999		<0.00474	<0.00516	<0.00513	NA	NA	NA	NA
1,2-Dibromoethane (EDB)	SW-846 8260	106934	0.0673		<0.00474	<0.00516	<0.00513	NA	NA	NA	NA
1,2-Dichloroethane	SW-846 8260	107062	0.621		<0.00474	<0.00516	<0.00513	NA	NA	NA	NA
1,2-Dichloropropane	SW-846 8260	78875	0.445		<0.00474	<0.00516	<0.00513	NA	NA	NA	NA
1,3,5-Trimethylbenzene	SW-846 8260	108678	436		<0.00474	<0.00516	<0.00513	NA	NA	NA	NA
1,4-Dioxane (p-Dioxane)	SW-846 8260	123911	520		<0.237	<0.258	<0.256	NA	NA	NA	NA
2-Butanone (MEK)	SW-846 8260	78933	84.5		<0.00949	**0.0105**	**0.0113**	NA	NA	NA	NA
2-Hexanone	SW-846 8260	591786	81800		<0.00949	<0.0103	<0.0103	NA	NA	NA	NA
4-Methyl-2-pentanone (MIBK)	SW-846 8260	108101	163000		<0.00949	<0.0103	<0.0103	NA	NA	NA	NA
4-Nitrophenol	SW-846 8270	100027	16400		<0.408	<0.43	<0.414	NA	NA	NA	NA
Acetone	SW-846 8260	67641	104000		**0.0119 UB**	**0.0863**	**0.109**	NA	NA	NA	NA
Acetonitrile	SW-846 8260	75058	111		<0.0949	<0.103	<0.103	NA	NA	NA	NA
Acetophenone	SW-846 8270	98862	2630		<0.408	<0.43	<0.414	NA	NA	NA	NA
Acrolein	SW-846 8260	107028	40900		<0.019	<0.0207	<0.0205	NA	NA	NA	NA
Acrylonitrile	SW-846 8260	107131	10.6		<0.019	<0.0207	<0.0205	NA	NA	NA	NA
Allyl chloride	SW-846 8260	107051	NAV		<0.00949	<0.0103	<0.0103	NA	NA	NA	NA
Arsenic*	SW-846 6010	7440382	11.8		**0.597 J**	<1.27	<1.2	<1.23	<1.31	<1.18	**0.71J**
Atrazine	SW-846 8270	1912249	25.8		<0.408	<0.43	<0.414	NA	NA	NA	NA
Benzene	SW-846 8260	71432	1.36		**0.00171 J**	<0.00516	<0.00513	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	SW-846 8270	117817	409		<0.408	<0.43	<0.414	NA	NA	NA	NA
Bromodichloromethane	SW-846 8260	75274	1.89		<0.00474	<0.00516	<0.00513	NA	NA	NA	NA
Bromoform	SW-846 8260	75252	90.1		<0.00474	<0.00516	<0.00513	NA	NA	NA	NA
Bromomethane	SW-846 8260	74839	2.97		<0.00474	<0.00516	<0.00513	NA	NA	NA	NA
Carbon disulfide	SW-846 8260	75150	7.97		**0.00121 J**	<0.00516	<0.00513	NA	NA	NA	NA
Carbon tetrachloride	SW-846 8260	56235	0.569		<0.00474	<0.00516	<0.00513	NA	NA	NA	NA
Chlorobenzene	SW-846 8260	108907	1.19		<0.00474	<0.00516	<0.00513	NA	NA	NA	NA
Chloroethane	SW-846 8260	75003	1970		<0.00474	<0.00516	<0.00513	NA	NA	NA	NA
Chloroform	SW-846 8260	67663	0.478		<0.00474	<0.00516	<0.00513	NA	NA	NA	NA
Chloromethane	SW-846 8260	74873	440		<0.00474	<0.00516	<0.00513	NA	NA	NA	NA
Chloroprene	SW-846 8260	126998	4080		<0.00474	<0.00516	<0.00513	NA	NA	NA	NA
cis-1,3-Dichloropropene	SW-846 8260	10061015	0.352		<0.00474	<0.00516	<0.00513	NA	NA	NA	NA

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Table 3. Summary of Soil Analytical Data, Site Characterization Report, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Parameter	Analytical Method	CAS No.	Soil Tier 1 TRG Restricted (mg/kg)	Sample ID: Sample Date:	GP-SB-21 (0-2) 2/15/2007	GP-SB-21 (2-4) 2/15/2007	GP-SB-DUP-03 GP-SB-21 (2-4) 2/15/2007	GP-SB-27 (0-2) 4/18/2007	GP-SB-27 (2-4) 4/18/2007	GP-SB-28 (0-2) 4/18/2007	GP-SB-28 (2-4) 4/18/2007
Cyanazine	SW-846 8270	21725462	6.81		<0.408	<0.43	<0.414	NA	NA	NA	NA
Dibromochloromethane	SW-846 8260	124481	68.1		<0.00474	<0.00516	<0.00513	NA	NA	NA	NA
Dibromomethane	SW-846 8260	74953	20400		<0.00474	<0.00516	<0.00513	NA	NA	NA	NA
Dichlorodifluoromethane	SW-846 8260	75718	409000		<0.00474	<0.00516	<0.00513	NA	NA	NA	NA
Dinoseb	SW-846 8151	88857	204		<0.049	<0.0516	<0.0498	NA	NA	NA	NA
Ethyl methacrylate	SW-846 8260	97632	18400		<0.00949	<0.0103	<0.0103	NA	NA	NA	NA
Ethylbenzene	SW-846 8260	100414	395		**0.00152 J**	<0.00516	<0.00513	NA	NA	NA	NA
Iodomethane	SW-846 8260	74884	NAV		<0.00474	<0.00516	<0.00513	NA	NA	NA	NA
Isobutanol	SW-846 8260	78831	613000		<0.237	<0.258	<0.256	NA	NA	NA	NA
m&p-Xylene	SW-846 8260	1330207	461		**0.0021 J**	<0.00516	<0.00513	NA	NA	NA	NA
Methacrylonitrile	SW-846 8260	126987	204		<0.0949	<0.103	<0.103	NA	NA	NA	NA
Methyl methacrylate	SW-846 8260	80626	16300		<0.00949	<0.0103	<0.0103	NA	NA	NA	NA
Methylene chloride	SW-846 8260	75092	21.9		<0.00474	<0.00516	<0.00513	NA	NA	NA	NA
o-Xylene	SW-846 8260	95476	413		**0.000939 J**	<0.00516	<0.00513	NA	NA	NA	NA
Pentachlorophenol	SW-846 8270	87865	23.8		<0.408	<0.43	<0.414	NA	NA	NA	NA
Propionitrile	SW-846 8260	107120	NAV		<0.019	<0.0207	<0.0205	NA	NA	NA	NA
Styrene	SW-846 8260	100425	384		<0.00474	<0.00516	<0.00513	NA	NA	NA	NA
Tetrachloroethene	SW-846 8260	127184	18.2		<0.00474	<0.00516	<0.00513	NA	NA	NA	NA
Toluene	SW-846 8260	108883	38		**0.00462 J**	<0.00516	<0.00513	NA	NA	NA	NA
Toxaphene	SW-846 8081	8001352	5.2		<0.0818	<0.0861	<0.083	NA	NA	NA	NA
trans-1,2-Dichloroethene	SW-846 8260	156605	3070		<0.00474	<0.00516	<0.00513	NA	NA	NA	NA
trans-1,3-Dichloropropene	SW-846 8260	10061026	0.352		<0.00474	<0.00516	<0.00513	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	SW-846 8260	110576	NAV		<0.00474	<0.00516	<0.00513	NA	NA	NA	NA
Trichloroethene	SW-846 8260	79016	7.92		<0.00474	<0.00516	<0.00513	NA	NA	NA	NA
Trichlorofluoromethane	SW-846 8260	75694	143000		<0.00474	<0.00516	<0.00513	NA	NA	NA	NA
Vinyl acetate	SW-846 8260	108054	9.13		<0.00949	<0.0103	<0.0103	NA	NA	NA	NA
Vinyl chloride	SW-846 8260	75014	0.939		<0.00474	<0.00516	<0.00513	NA	NA	NA	NA

All concentrations are in milligrams per kilogram (mg/kg).

J Estimated value.

NA Not analyzed.

NAV Not available.

R Rejected.

TRG Target Remediation Goal.

UB Non-detect due to associated blank contamination.

Shaded result indicates concentration above TRG (restricted).

* 11.8 mg/kg based on MDEQ approval of the Upper Confidence Limit (UCL) of the mean of the background concentration.

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Table 3. Summary of Soil Analytical Data, Site Characterization Report, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Parameter	Analytical Method	CAS No.	Soil Tier 1 TRG Restricted (mg/kg)	Sample ID: Sample Date:	GP-SB-29 (0-2) 4/18/2007	GP-SB-29 (2-4) 4/18/2007	GP-SB-30 (0-2) 4/18/2007	GP-SB-30 (2-4) 4/18/2007	GP-SB-31 (0-2) 4/18/2007	GP-SB-31 (2-4) 4/18/2007	GP-SB-32(0-2) 4/18/2007	GP-SB-32(2-4) 4/18/2007
1,1,1,2-Tetrachloroethane	SW-846 8260	630206	220		NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	SW-846 8260	71556	1190		NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	SW-846 8260	79345	1		NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	SW-846 8260	79005	1.67		NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	SW-846 8260	75343	116		NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	SW-846 8260	75354	0.118		NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	SW-846 8260	96184	0.818		NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	SW-846 8260	95636	102000		NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	SW-846 8260	96128	0.0999		NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane (EDB)	SW-846 8260	106934	0.0673		NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	SW-846 8260	107062	0.621		NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	SW-846 8260	78875	0.445		NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	SW-846 8260	108678	436		NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane (p-Dioxane)	SW-846 8260	123911	520		NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone (MEK)	SW-846 8260	78933	84.5		NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	SW-846 8260	591786	81800		NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone (MIBK)	SW-846 8260	108101	163000		NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	SW-846 8270	100027	16400		NA	NA	NA	NA	NA	NA	NA	NA
Acetone	SW-846 8260	67641	104000		NA	NA	NA	NA	NA	NA	NA	NA
Acetonitrile	SW-846 8260	75058	111		NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	SW-846 8270	98862	2630		NA	NA	NA	NA	NA	NA	NA	NA
Acrolein	SW-846 8260	107028	40900		NA	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	SW-846 8260	107131	10.6		NA	NA	NA	NA	NA	NA	NA	NA
Allyl chloride	SW-846 8260	107051	NAV		NA	NA	NA	NA	NA	NA	NA	NA
Arsenic*	SW-846 6010	7440382	11.8		NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	SW-846 8270	1912249	25.8		NA	NA	NA	NA	NA	NA	NA	NA
Benzene	SW-846 8260	71432	1.36		NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	SW-846 8270	117817	409		NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	SW-846 8260	75274	1.89		NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	SW-846 8260	75252	90.1		NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	SW-846 8260	74839	2.97		NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	SW-846 8260	75150	7.97		NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	SW-846 8260	56235	0.569		NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	SW-846 8260	108907	1.19		NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	SW-846 8260	75003	1970		NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	SW-846 8260	67663	0.478		NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	SW-846 8260	74873	440		NA	NA	NA	NA	NA	NA	NA	NA
Chloroprene	SW-846 8260	126998	4080		NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	SW-846 8260	10061015	0.352		NA	NA	NA	NA	NA	NA	NA	NA

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Table 3. Summary of Soil Analytical Data, Site Characterization Report, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Parameter	Analytical Method	CAS No.	Soil Tier 1 TRG Restricted (mg/kg)	Sample ID: Sample Date:	GP-SB-29 (0-2) 4/18/2007	GP-SB-29 (2-4) 4/18/2007	GP-SB-30 (0-2) 4/18/2007	GP-SB-30 (2-4) 4/18/2007	GP-SB-31 (0-2) 4/18/2007	GP-SB-31 (2-4) 4/18/2007	GP-SB-32(0-2) 4/18/2007	GP-SB-32(2-4) 4/18/2007
Cyanazine	SW-846 8270	21725462	6.81		NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	SW-846 8260	124481	68.1		NA	NA	NA	NA	NA	NA	NA	NA
Dibromomethane	SW-846 8260	74953	20400		NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	SW-846 8260	75718	409000		NA	NA	NA	NA	NA	NA	NA	NA
Dinoseb	SW-846 8151	88857	204		NA	NA	NA	NA	NA	NA	NA	NA
Ethyl methacrylate	SW-846 8260	97632	18400		NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	SW-846 8260	100414	395		NA	NA	NA	NA	NA	NA	NA	NA
Iodomethane	SW-846 8260	74884	NAV		NA	NA	NA	NA	NA	NA	NA	NA
Isobutanol	SW-846 8260	78831	613000		NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	SW-846 8260	1330207	461		NA	NA	NA	NA	NA	NA	NA	NA
Methacrylonitrile	SW-846 8260	126987	204		NA	NA	NA	NA	NA	NA	NA	NA
Methyl methacrylate	SW-846 8260	80626	16300		NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	SW-846 8260	75092	21.9		NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	SW-846 8260	95476	413		NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	SW-846 8270	87865	23.8		NA	NA	NA	NA	NA	NA	NA	NA
Propionitrile	SW-846 8260	107120	NAV		NA	NA	NA	NA	NA	NA	NA	NA
Styrene	SW-846 8260	100425	384		NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	SW-846 8260	127184	18.2		NA	NA	NA	NA	NA	NA	NA	NA
Toluene	SW-846 8260	108883	38		NA	NA	NA	NA	NA	NA	NA	NA
Toxaphene	SW-846 8081	8001352	5.2		<0.0858	<0.084	<0.0833	<0.0858	**0.123**	**0.354**	<0.0795	<0.0894
trans-1,2-Dichloroethene	SW-846 8260	156605	3070		NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	SW-846 8260	10061026	0.352		NA	NA	NA	NA	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	SW-846 8260	110576	NAV		NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	SW-846 8260	79016	7.92		NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	SW-846 8260	75694	143000		NA	NA	NA	NA	NA	NA	NA	NA
Vinyl acetate	SW-846 8260	108054	9.13		NA	NA	NA	NA	NA	NA	NA	NA
Vinyl chloride	SW-846 8260	75014	0.939		NA	NA	NA	NA	NA	NA	NA	NA

All concentrations are in milligrams per kilogram (mg/kg).

J Estimated value.

NA Not analyzed.

NAV Not available.

R Rejected.

TRG Target Remediation Goal.

UB Non-detect due to associated blank contamination.

Shaded result indicates concentration above TRG (restricted).

* 11.8 mg/kg based on MDEQ approval of the Upper Confidence Limit (UCL) of the mean of the background concentration.

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Table 3. Summary of Soil Analytical Data, Site Characterization Report, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Parameter	Analytical Method	CAS No.	Soil Tier 1 TRG Restricted (mg/kg)	Sample ID: Sample Date:	NP-SED 5/16/2007
1,1,1,2-Tetrachloroethane	SW-846 8260	630206	220		<0.0269
1,1,1-Trichloroethane	SW-846 8260	71556	1190		<0.0269
1,1,2,2-Tetrachloroethane	SW-846 8260	79345	1		<0.0269
1,1,2-Trichloroethane	SW-846 8260	79005	1.67		<0.0269
1,1-Dichloroethane	SW-846 8260	75343	116		<0.0269
1,1-Dichloroethene	SW-846 8260	75354	0.118		<0.0269
1,2,3-Trichloropropane	SW-846 8260	96184	0.818		<0.0269
1,2,4-Trimethylbenzene	SW-846 8260	95636	102000		<0.0269
1,2-Dibromo-3-chloropropane	SW-846 8260	96128	0.0999		<0.0269
1,2-Dibromoethane (EDB)	SW-846 8260	106934	0.0673		<0.0269
1,2-Dichloroethane	SW-846 8260	107062	0.621		<0.0269
1,2-Dichloropropane	SW-846 8260	78875	0.445		<0.0269
1,3,5-Trimethylbenzene	SW-846 8260	108678	436		<0.0269
1,4-Dioxane (p-Dioxane)	SW-846 8260	123911	520		<1.340
2-Butanone (MEK)	SW-846 8260	78933	84.5		**0.222**
2-Hexanone	SW-846 8260	591786	81800		<0.0537
4-Methyl-2-pentanone (MIBK)	SW-846 8260	108101	163000		<0.0537
4-Nitrophenol	SW-846 8270	100027	16400		<0.330
Acetone	SW-846 8260	67641	104000		<0.0537
Acetonitrile	SW-846 8260	75058	111		<0.537
Acetophenone	SW-846 8270	98862	2630		<0.330
Acrolein	SW-846 8260	107028	40900		<0.107
Acrylonitrile	SW-846 8260	107131	10.6		<0.107
Allyl chloride	SW-846 8260	107051	NAV		<0.0537
Arsenic*	SW-846 6010	7440382	11.8		<0.00245
Atrazine	SW-846 8270	1912249	25.8		<0.330
Benzene	SW-846 8260	71432	1.36		<0.0269
bis(2-Ethylhexyl)phthalate	SW-846 8270	117817	409		<0.330
Bromodichloromethane	SW-846 8260	75274	1.89		<0.0269
Bromoform	SW-846 8260	75252	90.1		<0.0269
Bromomethane	SW-846 8260	74839	2.97		<0.0269
Carbon disulfide	SW-846 8260	75150	7.97		<0.0269
Carbon tetrachloride	SW-846 8260	56235	0.569		<0.0269
Chlorobenzene	SW-846 8260	108907	1.19		<0.0269
Chloroethane	SW-846 8260	75003	1970		<0.0269
Chloroform	SW-846 8260	67663	0.478		<0.0269
Chloromethane	SW-846 8260	74873	440		<0.0269
Chloroprene	SW-846 8260	126998	4080		<0.0269
cis-1,3-Dichloropropene	SW-846 8260	10061015	0.352		<0.0269

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Table 3. Summary of Soil Analytical Data, Site Characterization Report, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Parameter	Analytical Method	CAS No.	Soil Tier 1 TRG Restricted (mg/kg)	Sample ID: Sample Date:	NP-SED 5/16/2007
Cyanazine	SW-846 8270	21725462	6.81		<0.330
Dibromochloromethane	SW-846 8260	124481	68.1		<0.0269
Dibromomethane	SW-846 8260	74953	20400		<0.0269
Dichlorodifluoromethane	SW-846 8260	75718	409000		<0.0269
Dinoseb	SW-846 8151	88857	204		<0.330
Ethyl methacrylate	SW-846 8260	97632	18400		<0.0537
Ethylbenzene	SW-846 8260	100414	395		<0.0269
Iodomethane	SW-846 8260	74884	NAV		<0.0269
Isobutanol	SW-846 8260	78831	613000		<1.340
m&p-Xylene	SW-846 8260	1330207	461		<0.0537
Methacrylonitrile	SW-846 8260	126987	204		<0.537
Methyl methacrylate	SW-846 8260	80626	16300		<0.0537
Methylene chloride	SW-846 8260	75092	21.9		<0.0269
o-Xylene	SW-846 8260	95476	413		<0.0269
Pentachlorophenol	SW-846 8270	87865	23.8		<0.330
Propionitrile	SW-846 8260	107120	NAV		<0.107
Styrene	SW-846 8260	100425	384		<0.0269
Tetrachloroethene	SW-846 8260	127184	18.2		<0.0269
Toluene	SW-846 8260	108883	38		<0.0269
Toxaphene	SW-846 8081	8001352	5.2		<0.0667
trans-1,2-Dichloroethene	SW-846 8260	156605	3070		<0.0269
trans-1,3-Dichloropropene	SW-846 8260	10061026	0.352		<0.0269
trans-1,4-Dichloro-2-butene	SW-846 8260	110576	NAV		<0.0269
Trichloroethene	SW-846 8260	79016	7.92		<0.0269
Trichlorofluoromethane	SW-846 8260	75694	143000		<0.0269
Vinyl acetate	SW-846 8260	108054	9.13		<0.0537
Vinyl chloride	SW-846 8260	75014	0.939		<0.0269

All concentrations are in milligrams per kilogram (mg/kg).

J Estimated value.

NA Not analyzed.

NAV Not available.

R Rejected.

TRG Target Remediation Goal.

UB Non-detect due to associated blank contamination.

Shaded result indicates concentration above TRG (restricted).

* 11.8 mg/kg based on MDEQ approval of the Upper Confidence Limit (UCL) of the mean of the background concentration.

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Table 4. Summary of Stabilization Analytical Data, Site Characterization Report, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Parameter	Analytical Method	CAS No.	Soil Tier 1 TRG Restricted (mg/kg)	S/S-01 (0-2)[1] 2/19/2007	S/S-DUP-02 (021907) S/S-01 (0-2) 2/19/2007	S/S-02 (0-6) 2/19/2007	S/S-DUP-01 (021907) S/S-02 (0-6) 2/19/2007	S/S-03 (0-4) 2/19/2007	S/S-04 (0-2) 2/15/2007	S/S-05 (0-2) 2/15/2007
Arsenic*	SW-846 6010	7440382	11.8	**295**	**148**	**22.3**	**25.7**	**25.1**	**11.3**	**3.62**
Dinoseb	SW-846 8151	88857	204	NA	NA	NA	NA	NA	NA	NA
Toxaphene	SW-846 8081	8001352	5.2	NA	NA	NA	NA	NA	**6.01**	<0.769

All concentrations are in milligrams per kilogram (mg/kg).
NA Not analyzed.
TRG Target Remediation Goal.
Shaded result indicates concentration above TRG (restricted).
* 11.8 mg/kg based on MDEQ approval of the Upper Confidence Limit (UCL) of the mean of the background concentration.
(1) An arsenic sample from this location was submitted for Synthetic Precipitation Leaching Procedure (SPLP) analysis. The results of this analysis are included in Table 5.

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Table 4. Summary of Stabilization Analytical Data, Site Characterization Report, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Parameter	Analytical Method	CAS No.	Soil Tier 1 TRG Restricted (mg/kg)	S/S-06 (0-2) 2/15/2007	S/S-07 (0-2) 2/15/2007	S/S-08 (0-2) 2/15/2007	S/S-09 (0-2) 2/15/2007	S/S-10 (0-2) 2/15/2007	S/S-11 (0-2)[(2)] 2/16/2007	S/S-12 (0-2) 2/16/2007	S/S-13 (0-2) 2/16/2007
Arsenic*	SW-846 6010	7440382	11.8	NA	NA	NA	NA	NA	NA	NA	NA
Dinoseb	SW-846 8151	88857	204	NA	NA	NA	<0.481	<0.496	NA	<0.938	<0.950
Toxaphene	SW-846 8081	8001352	5.2	**0.405**	<0.814	**33.7**	**1.0**	**1.21**	**93.7**	**0.362**	**29.2**

All concentrations are in milligrams per kilogram (mg/kg).
NA Not analyzed.
TRG Target Remediation Goal.
Shaded result indicates concentration above TRG (restricted).
* 11.8 mg/kg based on MDEQ approval of the Upper Confidence Limit (UCL) of the mean of the background concentration.
(2) A toxaphene sample from this location was submitted for Synthetic Precipitation Leaching Procedure (SPLP) analysis. The results of this analysis are included in Table 5.

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Table 4. Summary of Stabilization Analytical Data, Site Characterization Report, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Parameter	Analytical Method	CAS No.	Soil Tier 1 TRG Restricted (mg/kg)	S/S-14 (0-2)[(3)] 2/16/2007	S/S-15 (0-2) 2/16/2007	S/S-16 (0-2) 2/16/2007	S/S-17 (0-2) 2/16/2007	S/S-18 (0-2) 2/16/2007	S/S-19 (0-2) 2/16/2007	S/S-20 (0-2) 2/16/2007	S/S-21 (0-2) 2/16/2007
Arsenic*	SW-846 6010	7440382	11.8	NA	NA	**3.55**	**16.8**	**8.70**	**5.47**	**6.93**	**5.84**
Dinoseb	SW-846 8151	88857	204	**88.1**	NA	<0.513	<0.0494	<0.0488	<0.488	<0.477	**0.852**
Toxaphene	SW-846 8081	8001352	5.2	**22.6**	**0.12**	<0.0855	<0.0824	<0.0814	<0.0813	<0.0795	<0.0799

All concentrations are in milligrams per kilogram (mg/kg).
NA Not analyzed.
TRG Target Remediation Goal.
Shaded result indicates concentration above TRG (restricted).
* 11.8 mg/kg based on MDEQ approval of the Upper Confidence Limit (UCL) of the mean of the background concentration.
(3) A dinoseb sample from this location was submitted for Synthetic Precipitation Leaching Procedure (SPLP) analysis. The results of this analysis are included in Table 5.

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Table 5. Summary of Stabilization SPLP Analytical Data, Site Characterization Report, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Parameter	Analytical Method	CAS No.	Groundwater Tier 1 TRG (mg/L)	S/S-01 (0-2) 2/19/2007	S/S-11-A (0-2) 3/26/2007	S/S-14-A (0-2) 3/26/2007
Arsenic	SW-846 6010	7440382	0.05	**0.591**	NA	NA
Dinoseb	SW-846 8151	88857	0.007	NA	NA	**0.972**
Toxaphene	SW-846 8081	8001352	0.003	NA	<0.002	NA

All concentrations are in milligrams per liter (mg/L).
Shaded result indicates concentration above TRG (restricted).
NA Not analyzed.
SPLP Synthetic Precipitation Leaching Procedure.
TRG Target Remediation Goal.

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Table 6. Summary of Landfill Soil Analytical Data, Site Characterization Report, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Parameter	Analytical Method	CAS No.	Soil Tier 1 TRG Restricted (mg/kg)	Sample ID: / Sample Date:	LF-B-02 (12-14) 3/29/2007	LF-B-02 (30-32) 3/29/2007	LF-B-03 (12-14) 3/29/2007	LF-B-04 (5-6') 4/2/2007	LF-B-04 (22-24') 4/2/2007	LF-B-13 (16-18) 4/10/2007
1,1,1,2-Tetrachloroethane	SW-846 8260	630206	220		<0.00484	<0.00494	<0.00493	<163	<0.254	<6.84
1,1,1-Trichloroethane	SW-846 8260	71556	1190		<0.00484	<0.00494	<0.00493	<163	<0.254	<6.84
1,1,2,2-Tetrachloroethane	SW-846 8260	79345	1		<0.00484	<0.00494	<0.00493	<163	<0.254	<6.84
1,1,2-Trichloroethane	SW-846 8260	79005	1.67		<0.00484	<0.00494	<0.00493	<163	<0.254	<6.84
1,1-Dichloroethane	SW-846 8260	75343	116		<0.00484	<0.00494	<0.00493	<163	<0.254	<6.84
1,1-Dichloroethene	SW-846 8260	75354	0.118		<0.00484	<0.00494	<0.00493	<163	<0.254	<6.84
1,2,3-Trichloropropane	SW-846 8260	96184	0.818		<0.00484	<0.00494	<0.00493	<163	<0.254	<6.84
1,2,4-Trimethylbenzene	SW-846 8260	95636	102000		<0.00484	<0.00494	<0.00493	<163	<0.254	**281**
1,2-Dibromo-3-chloropropane	SW-846 8260	96128	0.0999		<0.00484	<0.00494	<0.00493	<163	<0.254	<6.84
1,2-Dibromoethane (EDB)	SW-846 8260	106934	0.0673		<0.00484	<0.00494	<0.00493	<163	<0.254	<6.84
1,2-Dichloroethane	SW-846 8260	107062	0.621		<0.00484	<0.00494	<0.00493	<163	<0.254	<6.84
1,2-Dichloropropane	SW-846 8260	78875	0.445		<0.00484	<0.00494	<0.00493	<163	<0.254	<6.84
1,3,5-Trimethylbenzene	SW-846 8260	108678	436		<0.00484	<0.00494	<0.00493	<163	<0.254	**99.1**
1,4-Dioxane (p-Dioxane)	SW-846 8260	123911	520		<0.242	<0.247	<0.247	<8150	<12.7	<342
2-Butanone (MEK)	SW-846 8260	78933	84.5		<0.00968	<0.00988	<0.00986	<326	<0.508	<13.7
2-Hexanone	SW-846 8260	591786	81800		<0.00968	<0.00988	<0.00986	<326	<0.508	<13.7
4-Methyl-2-pentanone (MIBK)	SW-846 8260	108101	163000		<0.00968	<0.00988	<0.00986	<326	<0.508	<13.7
4-Nitrophenol	SW-846 8270	100027	16400		<0.393	<0.426	<0.404	<8.9	<0.399	<4870
Acetone	SW-846 8260	67641	104000		<0.00968	<0.00988	<0.00986	<326	<0.508	<13.7
Acetonitrile	SW-846 8260	75058	111		<0.0968	<0.0988	<0.0986	<3260	<5.08	<137
Acetophenone	SW-846 8270	98862	2630		<0.393	<0.426	<0.404	<8.9	<0.399	<4870
Acrolein	SW-846 8260	107028	40900		<0.0194	<0.0198	<0.0197	<652	<1.02	<27.3
Acrylonitrile	SW-846 8260	107131	10.6		<0.0194	<0.0198	<0.0197	<652	<1.02	<27.3
Allyl chloride	SW-846 8260	107051	NAV		<0.00968	<0.00988	<0.00986	<326	<0.508	<13.7
Arsenic*	SW-846 6010	7440382	11.8		<1.03	<1.19	**2.6**	<1.18	**1.49**	**4.81**
Atrazine	SW-846 8270	1912249	25.8		<0.393	<0.426	**0.419**	<8.9	<0.399	**13,800**
Benzene	SW-846 8260	71432	1.36		<0.00484	<0.00494	<0.00493	<163	<0.254	<6.84
bis(2-Ethylhexyl)phthalate	SW-846 8270	117817	409		<0.393	<0.426	<0.404	<8.9	<0.399	<4870
Bromodichloromethane	SW-846 8260	75274	1.89		<0.00484	<0.00494	<0.00493	<163	<0.254	<6.84
Bromoform	SW-846 8260	75252	90.1		<0.00484	<0.00494	<0.00493	<163	<0.254	<6.84
Bromomethane	SW-846 8260	74839	2.97		<0.00484	<0.00494	<0.00493	<163	<0.254	<6.84
Carbon disulfide	SW-846 8260	75150	7.97		**0.00835**	<0.00494	<0.00493	<163	<0.254	<6.84
Carbon tetrachloride	SW-846 8260	56235	0.569		<0.00484	**0.116**	**0.0324**	**4830**	**1.2**	<6.84
Chlorobenzene	SW-846 8260	108907	1.19		<0.00484	<0.00494	<0.00493	<163	<0.254	<6.84
Chloroethane	SW-846 8260	75003	1970		<0.00484	<0.00494	<0.00493	<163	<0.254	<6.84
Chloroform	SW-846 8260	67663	0.478		<0.00484	<0.00494	<0.00493	<163	<0.254	**15.9**
Chloromethane	SW-846 8260	74873	440		<0.00484	<0.00494	<0.00493	<163	<0.254	<6.84
Chloroprene	SW-846 8260	126998	4080		<0.00484	<0.00494	<0.00493	<163	<0.254	<6.84
cis-1,3-Dichloropropene	SW-846 8260	10061015	0.352		<0.00484	<0.00494	<0.00493	<163	<0.254	<6.84

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Table 6. Summary of Landfill Soil Analytical Data, Site Characterization Report, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Parameter	Analytical Method	CAS No.	Soil Tier 1 TRG Restricted (mg/kg)	Sample ID: / Sample Date:	LF-B-02 (12-14) 3/29/2007	LF-B-02 (30-32) 3/29/2007	LF-B-03 (12-14) 3/29/2007	LF-B-04 (5-6') 4/2/2007	LF-B-04 (22-24') 4/2/2007	LF-B-13 (16-18) 4/10/2007
Cyanazine	SW-846 8270	21725462	6.81		<0.393	<0.426	<0.404	<8.9	<0.399	**14200**
Dibromochloromethane	SW-846 8260	124481	68.1		<0.00484	<0.00494	<0.00493	<163	<0.254	<6.84
Dibromomethane	SW-846 8260	74953	20400		<0.00484	<0.00494	<0.00493	<163	<0.254	<6.84
Dichlorodifluoromethane	SW-846 8260	75718	409000		<0.00484	<0.00494	<0.00493	<163	<0.254	<6.84
Dinoseb	SW-846 8151	88857	204		**0.618**	<0.0861	**25.4**	**8400**	<0.399	<98.5
Ethyl methacrylate	SW-846 8260	97632	18400		<0.00968	<0.00988	<0.00986	<326	<0.508	<13.7
Ethylbenzene	SW-846 8260	100414	395		<0.00484	<0.00494	<0.00493	<163	<0.254	**39.7**
Iodomethane	SW-846 8260	74884	NAV		<0.00484	<0.00494	<0.00493	<163	<0.254	<6.84
Isobutanol	SW-846 8260	78831	613000		<0.242	<0.247	<0.247	<8150	<12.7	<342
m&p-Xylene	SW-846 8260	1330207	461		<0.00968	<0.00988	<0.00986	<326	<0.508	**142**
Methacrylonitrile	SW-846 8260	126987	204		<0.0968	<0.0988	<0.0986	<3260	<5.08	<137
Methyl methacrylate	SW-846 8260	80626	16300		<0.00968	<0.00988	<0.00986	<326	<0.508	<13.7
Methylene chloride	SW-846 8260	75092	21.9		<0.00484	<0.00494	<0.00493	<163	<0.254	<6.84
o-Xylene	SW-846 8260	95476	413		<0.00484	<0.00494	<0.00493	<163	<0.254	**119**
Pentachlorophenol	SW-846 8270	87865	23.8		<0.393	<0.426	<0.404	<8.9	<0.399	<4870
Propionitrile	SW-846 8260	107120	NAV		<0.0194	<0.0198	<0.0197	<652	<1.02	<27.3
Styrene	SW-846 8260	100425	384		<0.00484	<0.00494	<0.00493	<163	<0.254	<6.84
Tetrachloroethene	SW-846 8260	127184	18.2		<0.00484	<0.00494	<0.00493	<163	<0.254	<6.84
Toluene	SW-846 8260	108883	38		<0.00484	**0.00735**	**0.00755**	<163	<0.254	<6.84
Toxaphene	SW-846 8081	8001352	5.2		<0.794	<0.0861	<0.0816	**15**	<0.0806	**939**
trans-1,2-Dichloroethene	SW-846 8260	156605	3070		<0.00484	<0.00494	<0.00493	<163	<0.254	<6.84
trans-1,3-Dichloropropene	SW-846 8260	10061026	0.352		<0.00484	<0.00494	<0.00493	<163	<0.254	<6.84
trans-1,4-Dichloro-2-butene	SW-846 8260	110576	NAV		<0.00484	<0.00494	<0.00493	<163	<0.254	<6.84
Trichloroethene	SW-846 8260	79016	7.92		<0.00484	<0.00494	<0.00493	<163	<0.254	<6.84
Trichlorofluoromethane	SW-846 8260	75694	143000		<0.00484	<0.00494	<0.00493	<163	<0.254	<6.84
Vinyl acetate	SW-846 8260	108054	9.13		<0.00968	<0.00988	<0.00986	<326	<0.508	<13.7
Vinyl chloride	SW-846 8260	75014	0.939		<0.00484	<0.00494	<0.00493	<163	<0.254	<6.84

All concentrations are in milligrams per kilogram (mg/kg).
J Estimated value.
NAV Not available.
TRG Target Remediation Goal.
Shaded result indicates concentration above TRG (restricted).
* 11.8 mg/kg based on MDEQ approval of the Upper Confidence Limit (UCL) of the mean of the background concentration.

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Table 7. Summary of Soil Quality Assurance/Quality Control (QA/QC) Analytical Data, Site Characterization Report, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Parameter	Analytical Method	CAS No.	Sample ID: / Sample Date:	GP-SB-FB-03 2/15/2007	GP-SB-RB-03 2/15/2007	TB-GP-SB-03 2/15/2007	GP-SB-FB-01 2/13/2007	GP-SB-FB-02 2/14/2007	GP-SB-RB-01 2/13/2007	GP-SB-RB-02 2/14/2007	TB-GP-SB-01 2/14/2007	TB-GP-SB-02 2/14/2007	Trip Blank 4/2/2007	TB-01(032907) 3/29/2007
1,1,1,2-Tetrachloroethane	SW-846 8260	630206		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,1-Trichloroethane	SW-846 8260	71556		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,2,2-Tetrachloroethane	SW-846 8260	79345		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,2-Trichloroethane	SW-846 8260	79005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1-Dichloroethane	SW-846 8260	75343		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1-Dichloroethene	SW-846 8260	75354		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2,3-Trichloropropane	SW-846 8260	96184		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2,4-Trimethylbenzene	SW-846 8260	95636		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dibromo-3-chloropropane	SW-846 8260	96128		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dibromoethane (EDB)	SW-846 8260	106934		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichloroethane	SW-846 8260	107062		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichloropropane	SW-846 8260	78875		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,3,5-Trimethylbenzene	SW-846 8260	108678		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,4-Dioxane (p-Dioxane)	SW-846 8260	123911		<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
2-Butanone (MEK)	SW-846 8260	78933		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Hexanone	SW-846 8260	591786		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
4-Methyl-2-pentanone (MIBK)	SW-846 8260	108101		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
4-Nitrophenol	SW-846 8270	100027		NA	<0.01	NA	NA	NA	<0.01	<0.01	NA	NA	NA	NA
Acetone	SW-846 8260	67641		<0.01	**0.0085 J**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acetonitrile	SW-846 8260	75058		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acetophenone	SW-846 8270	98862		NA	<0.01	NA	NA	NA	<0.01	<0.01	NA	NA	NA	NA
Acrolein	SW-846 8260	107028		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Acrylonitrile	SW-846 8260	107131		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Allyl chloride	SW-846 8260	107051		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Arsenic	SW-846 6010	7440382		NA	<0.01	NA	NA	NA	<0.01	<0.01	NA	NA	NA	NA
Atrazine	SW-846 8270	1912249		NA	<0.01	NA	NA	NA	<0.01	<0.01	NA	NA	NA	NA
Benzene	SW-846 8260	71432		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
bis(2-Ethylhexyl)phthalate	SW-846 8270	117817		NA	<0.01	NA	NA	NA	<0.01	<0.01	NA	NA	NA	NA
Bromodichloromethane	SW-846 8260	75274		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bromoform	SW-846 8260	75252		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bromomethane	SW-846 8260	74839		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Carbon disulfide	SW-846 8260	75150		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Carbon tetrachloride	SW-846 8260	56235		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chlorobenzene	SW-846 8260	108907		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroethane	SW-846 8260	75003		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroform	SW-846 8260	67663		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloromethane	SW-846 8260	74873		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroprene	SW-846 8260	126998		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
cis-1,3-Dichloropropene	SW-846 8260	10061015		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cyanazine	SW-846 8270	21725462		NA	<0.01	NA	NA	NA	<0.01	<0.01	NA	NA	NA	NA
Dibromochloromethane	SW-846 8260	124481		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dibromomethane	SW-846 8260	74953		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dichlorodifluoromethane	SW-846 8260	75718		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dinoseb	SW-846 8151	88857		NA	<0.002	NA	NA	NA	<0.002	<0.002	NA	NA	NA	NA
Ethyl methacrylate	SW-846 8260	97632		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Ethylbenzene	SW-846 8260	100414		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Iodomethane	SW-846 8260	74884		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Isobutanol	SW-846 8260	78831		<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
m&p-Xylene	SW-846 8260	1330207		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01
Methacrylonitrile	SW-846 8260	126987		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methyl methacrylate	SW-846 8260	80626		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Methylene chloride	SW-846 8260	75092		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
o-Xylene	SW-846 8260	95476		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Pentachlorophenol	SW-846 8270	87865		NA	<0.01	NA	NA	NA	<0.01	<0.01	NA	NA	NA	NA

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Table 7. Summary of Soil Quality Assurance/Quality Control (QA/QC) Analytical Data, Site Characterization Report, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Parameter	Analytical Method	CAS No.	Sample ID: / Sample Date:	GP-SB-FB-03 2/15/2007	GP-SB-RB-03 2/15/2007	TB-GP-SB-03 2/15/2007	GP-SB-FB-01 2/13/2007	GP-SB-FB-02 2/14/2007	GP-SB-RB-01 2/13/2007	GP-SB-RB-02 2/14/2007	TB-GP-SB-01 2/14/2007	TB-GP-SB-02 2/14/2007	Trip Blank 4/2/2007	TB-01(032907) 3/29/2007
Propionitrile	SW-846 8260	107120		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Styrene	SW-846 8260	100425		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Tetrachloroethene	SW-846 8260	127184		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	SW-846 8260	108883		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toxaphene	SW-846 8081	8001352		NA	<0.002	NA	NA	NA	<0.002	<0.002	NA	NA	NA	NA
trans-1,2-Dichloroethene	SW-846 8260	156605		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
trans-1,3-Dichloropropene	SW-846 8260	10061026		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
trans-1,4-Dichloro-2-butene	SW-846 8260	110576		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloroethene	SW-846 8260	79016		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichlorofluoromethane	SW-846 8260	75694		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Vinyl acetate	SW-846 8260	108054		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Vinyl chloride	SW-846 8260	75014		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

All concentrations are in milligrams per kilogram (mg/kg).

FB Field blank.
J Estimated value.
NA Not analyzed.
NAV Not available.
RB Rinsate blank.
TB Trip blank.

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Table 8. Summary of Storm Water Analytical Data, Site Characterization Report, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Parameter	CAS No.	Analytical Method	Sample ID:	SOUTH SUMP	SW-01	SW-DUP-01 SW-01	SW-02	SW-03	SW-04	SW-05	SW-06
			Sample Date:	2/1/2007	2/1/2007	2/1/2007	2/1/2007	2/1/2007	2/1/2007	2/1/2007	2/1/2007
1,1,1,2-Tetrachloroethane	630206	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,1-Trichloroethane	71556	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,2,2-Tetrachloroethane	79345	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,2-Trichloroethane	79005	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1-Dichloroethane	75343	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1-Dichloroethene	75354	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2,3-Trichloropropane	96184	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2,4-Trimethylbenzene	95636	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dibromo-3-chloropropane	96128	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dibromoethane (EDB)	106934	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichloroethane	107062	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichloropropane	78875	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,3,5-Trimethylbenzene	108678	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,4-Dioxane (p-Dioxane)	123911	SW-846 8260		<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
2-Butanone (MEK)	78933	SW-846 8260		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Hexanone	591786	SW-846 8260		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
4-Methyl-2-pentanone (MIBK)	108101	SW-846 8260		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
4-Nitrophenol	100027	SW-846 8270		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acetone	67641	SW-846 8260		**0.0243 J**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	**0.0224 J**
Acetonitrile	75058	SW-846 8260		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acetophenone	98862	SW-846 8270		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acrolein	107028	SW-846 8260		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Acrylonitrile	107131	SW-846 8260		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Allyl chloride	107051	SW-846 8260		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Arsenic	7440382	SW-846 6010		**0.0224**	**0.0196 J**	**0.0219 J**	<0.01	**0.0345**	**0.0182 J**	**0.0107**	**0.01**
Arsenic, Dissolved	7440382	SW-846 6010		**0.0129**	**0.0256 J**	**0.0276 J**	<0.01	**0.026**	**0.0245 J**	**0.00583 J**	**0.0086 J**
Atrazine	1912249	SW-846 8270		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzene	71432	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
bis(2-Ethylhexyl)phthalate	117817	SW-846 8270		**0.01**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Biological Oxygen Demand, 5 day	NAV	EPA 405.1		<6	<6	<6	<6	<6	<6	<6	<6
Bromodichloromethane	75274	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bromoform	75252	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bromomethane	74839	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Carbon disulfide	75150	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Carbon tetrachloride	56235	SW-846 8260		<0.005	<0.005	<0.005	<0.005	**0.00085 J**	<0.005	<0.005	<0.005
Chemical Oxygen Demand	NAV	EPA 410.4		**35**	**28**	**33**	**22**	**31**	**32**	**30**	**35**
Chloride	16887006	EPA 325.3		**16.4 J**	**18.1 J**	**19.7 J**	**18.1 J**	**23 J**	**18.1 J**	**19.7 J**	**18.1 J**
Chlorobenzene	108907	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroethane	75003	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroform	67663	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloromethane	74873	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroprene	126998	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

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Table 8. Summary of Storm Water Analytical Data, Site Characterization Report, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Parameter	CAS No.	Analytical Method	Sample ID: / Sample Date:	SOUTH SUMP 2/1/2007	SW-01 2/1/2007	SW-DUP-01 SW-01 2/1/2007	SW-02 2/1/2007	SW-03 2/1/2007	SW-04 2/1/2007	SW-05 2/1/2007	SW-06 2/1/2007
cis-1,3-Dichloropropene	10061015	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cyanazine	21725462	SW-846 8270		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibromochloromethane	124481	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dibromomethane	74953	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dichlorodifluoromethane	75718	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dinoseb	88857	SW-846 8151		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Ethyl methacrylate	97632	SW-846 8260		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Ethylbenzene	100414	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride	16984488	EPA 340.2		**0.22**	**0.4**	**0.39**	**0.21**	**0.31**	**0.28**	**0.25**	**0.32**
Iodomethane	74884	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Isobutanol	78831	SW-846 8260		<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
m&p-Xylene	#N/A	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Methacrylonitrile	126987	SW-846 8260		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methyl methacrylate	80626	SW-846 8260		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Methylene chloride	75092	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Nitrate-Nitrite (as N)	NAV	EPA 353.2		**1.18**	**0.879 J**	**1.46**	<0.1	**1.26**	**1.17**	**0.555**	**24.5**
Nitrogen, Ammonia	7664417	EPA 350.1		<0.1 J	**0.113 J**	<0.1 J	<0.1 J	**0.11 J**	**0.272 J**	<0.1 J	<0.1 J
o-Xylene	95476	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Pentachlorophenol	87865	SW-846 8270		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
pH	NAV	EPA 150.1		**7.43**	**7.47**	**7.47**	**7.39**	**7.49**	**7.4**	**7.58**	**6.37**
Phosphorus	7723140	EPA 365.4		**9.26**	**0.339**	**0.336**	<0.1	**0.318**	**2.44**	**1.6**	**1.36**
Propionitrile	107120	SW-846 8260		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Styrene	100425	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Sulfate	14808798	EPA 375.4		<1	**1.07 J**	<1	<1	<1	**1.34**	<1	<1
Tetrachloroethene	127184	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	108883	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Dissolved Solids	NAV	EPA 160.1		**230**	**420**	**325**	**160**	**400**	**350**	**145**	**115**
Total Suspended Solids	NAV	EPA 160.2		**5**	**78**	**67**	<4	**63**	**96**	**13**	**6**
Toxaphene	8001352	SW-846 8081		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
trans-1,2-Dichloroethene	156605	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
trans-1,3-Dichloropropene	10061026	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
trans-1,4-Dichloro-2-butene	110576	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloroethene	79016	SW-846 8260		<0.005	<0.005	<0.005	<0.005	**0.0425**	**0.0096**	<0.005	<0.005
Trichlorofluoromethane	75694	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Vinyl acetate	108054	SW-846 8260		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Vinyl chloride	75014	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

All concentrations in milligrams per liter (mg/L) except pH (standard units).

B Analyte was detected in an associated blank.

J Estimated.

NAV Not available.

R Rejected

ARCADIS

Table 8. Summary of Storm Water Analytical Data, Site Characterization Report, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Parameter	CAS No.	Analytical Method	Sample ID: Sample Date:	SW-07 2/1/2007	SW-08 2/1/2007	SW-09 2/1/2007	SW-10 2/1/2007	SW-11 2/1/2007	SW-12 2/1/2007	SW-13 2/1/2007	SW-14 2/1/2007	SW-15 2/1/2007
1,1,1,2-Tetrachloroethane	630206	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,1-Trichloroethane	71556	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,2,2-Tetrachloroethane	79345	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,2-Trichloroethane	79005	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1-Dichloroethane	75343	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1-Dichloroethene	75354	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2,3-Trichloropropane	96184	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2,4-Trimethylbenzene	95636	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dibromo-3-chloropropane	96128	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dibromoethane (EDB)	106934	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichloroethane	107062	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichloropropane	78875	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,3,5-Trimethylbenzene	108678	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,4-Dioxane (p-Dioxane)	123911	SW-846 8260		<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
2-Butanone (MEK)	78933	SW-846 8260		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Hexanone	591786	SW-846 8260		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
4-Methyl-2-pentanone (MIBK)	108101	SW-846 8260		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
4-Nitrophenol	100027	SW-846 8270		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01 J	<0.01
Acetone	67641	SW-846 8260		**0.0157 J**	**0.0144 J**	<0.016 B	**0.0309 J**	<0.0233 B	<0.0217 B	<0.0227 B	<0.0239 B	**0.0269 J**
Acetonitrile	75058	SW-846 8260		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acetophenone	98862	SW-846 8270		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acrolein	107028	SW-846 8260		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Acrylonitrile	107131	SW-846 8260		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Allyl chloride	107051	SW-846 8260		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Arsenic	7440382	SW-846 6010		**0.0105**	**0.0327**	<0.01	**0.02 J**	**0.0165**	<0.01 J	**0.0434**	<0.01	**0.00858 J**
Arsenic, Dissolved	7440382	SW-846 6010		**0.00893 J**	**0.016**	<0.01	**0.031 J**	**0.0094 J**	**0.00847 J**	**0.0239**	<0.01	**0.0155**
Atrazine	1912249	SW-846 8270		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzene	71432	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
bis(2-Ethylhexyl)phthalate	117817	SW-846 8270		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	**0.00882 J**	<0.01	**0.0146**
Biological Oxygen Demand, 5 day	NAV	EPA 405.1		<6	<6	<6	<6	<6	<6	<6	<6	<6
Bromodichloromethane	75274	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.0132 J**	<0.005
Bromoform	75252	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.00187 J**	<0.005
Bromomethane	74839	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Carbon disulfide	75150	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Carbon tetrachloride	56235	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chemical Oxygen Demand	NAV	EPA 410.4		**30**	**63**	**37**	**21**	**17**	**71**	**36**	**6**	**22**
Chloride	16887006	EPA 325.3		**19.7 J**	**23 J**	**18.1 J**	**146 J**	**23 J**	**16.4 J**	**19.7 J**	**26.3 J**	**37.8 J**
Chlorobenzene	108907	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroethane	75003	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroform	67663	SW-846 8260		<0.005	<0.005	<0.005	**0.0494**	<0.005	<0.005	<0.005	**0.0192 J**	<0.005
Chloromethane	74873	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroprene	126998	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

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Table 8. Summary of Storm Water Analytical Data, Site Characterization Report, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Parameter	CAS No.	Analytical Method	Sample ID: / Sample Date:	SW-07 2/1/2007	SW-08 2/1/2007	SW-09 2/1/2007	SW-10 2/1/2007	SW-11 2/1/2007	SW-12 2/1/2007	SW-13 2/1/2007	SW-14 2/1/2007	SW-15 2/1/2007
cis-1,3-Dichloropropene	10061015	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cyanazine	21725462	SW-846 8270		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibromochloromethane	124481	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.0112 J**	<0.005
Dibromomethane	74953	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dichlorodifluoromethane	75718	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dinoseb	88857	SW-846 8151		<0.002	**0.0535**	<0.002	<0.002	<0.002	**0.6**	**0.0234**	<0.002	<0.002
Ethyl methacrylate	97632	SW-846 8260		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Ethylbenzene	100414	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride	16984488	EPA 340.2		<0.1	**0.87**	<0.1	<0.1	**0.16**	<0.1	**0.47**	**1.1**	**0.17**
Iodomethane	74884	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Isobutanol	78831	SW-846 8260		<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
m&p-Xylene	#N/A	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Methacrylonitrile	126987	SW-846 8260		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methyl methacrylate	80626	SW-846 8260		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Methylene chloride	75092	SW-846 8260		<0.005	<0.005	**0.025 J**	<0.005	**0.0323 J**	**0.0295**	**0.0276 J**	**0.0265 J**	<0.005
Nitrate-Nitrite (as N)	NAV	EPA 353.2		<0.1	**529**	**0.91**	**23.4 J**	**66**	<0.1	**255**	<0.1	**38.4**
Nitrogen, Ammonia	7664417	EPA 350.1		**0.157 J**	**535 J**	**0.136 J**	<0.1 J	**0.143 J**	**0.207 J**	**49.8 J**	**0.102 J**	**2.01 J**
o-Xylene	95476	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Pentachlorophenol	87865	SW-846 8270		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01 J	<0.01
pH	NAV	EPA 150.1		**7.82**	**7.02**	**7.19**	**7.6**	**6.58**	**7.76**	**6.97**	**8.47**	**9.72**
Phosphorus	7723140	EPA 365.4		**0.23**	**0.241**	**0.509**	**0.207**	**0.255**	**3.71**	**0.514**	<0.1	**0.491**
Propionitrile	107120	SW-846 8260		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Styrene	100425	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Sulfate	14808798	EPA 375.4		<1	<5	**3.84**	<1 J	**40.6**	<1	**2.2**	<1	<1
Tetrachloroethene	127184	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	108883	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Dissolved Solids	NAV	EPA 160.1		**205**	**1440**	**80**	**745**	**700**	**125**	**1160**	**170**	**250**
Total Suspended Solids	NAV	EPA 160.2		**35**	**8**	**37**	**9**	**45**	**224**	**5**	**4**	**11**
Toxaphene	8001352	SW-846 8081		<0.002	<0.002	<0.002	<0.002	<0.002	**0.00691**	<0.002	<0.002	<0.002
trans-1,2-Dichloroethene	156605	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
trans-1,3-Dichloropropene	10061026	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
trans-1,4-Dichloro-2-butene	110576	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloroethene	79016	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichlorofluoromethane	75694	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Vinyl acetate	108054	SW-846 8260		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Vinyl chloride	75014	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

All concentrations in milligrams per liter (mg/L) except pH (standard units).

B Analyte was detected in an associated blank.

J Estimated.

NAV Not available.

R Rejected

ARCADIS

Table 8. Summary of Storm Water Analytical Data, Site Characterization Report, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Parameter	CAS No.	Analytical Method	Sample ID: Sample Date:	SW-DISCHARGE POND A (020207) 2/2/2007	SW-DUP-02 (020207) SW-DISCHARGE POND A (020207) 2/2/2007	SW-NORTH POND(020207) 2/2/2007	SW-NORTH SUMP(020207) 2/2/2007	SW-POND A (020207) 2/2/2007	SW-POND B (020207) 2/2/2007	SW-POND C (020207) 2/2/2007
1,1,1,2-Tetrachloroethane	630206	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,1-Trichloroethane	71556	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,2,2-Tetrachloroethane	79345	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,2-Trichloroethane	79005	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1-Dichloroethane	75343	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1-Dichloroethene	75354	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2,3-Trichloropropane	96184	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2,4-Trimethylbenzene	95636	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dibromo-3-chloropropane	96128	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dibromoethane (EDB)	106934	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichloroethane	107062	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichloropropane	78875	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,3,5-Trimethylbenzene	108678	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,4-Dioxane (p-Dioxane)	123911	SW-846 8260		<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
2-Butanone (MEK)	78933	SW-846 8260		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Hexanone	591786	SW-846 8260		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
4-Methyl-2-pentanone (MIBK)	108101	SW-846 8260		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
4-Nitrophenol	100027	SW-846 8270		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acetone	67641	SW-846 8260		<0.01 B	<0.0205 B	<0.0338 B	<0.022 B	<0.0148 B	<0.0316 B	<0.0188 B
Acetonitrile	75058	SW-846 8260		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acetophenone	98862	SW-846 8270		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acrolein	107028	SW-846 8260		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Acrylonitrile	107131	SW-846 8260		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Allyl chloride	107051	SW-846 8260		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Arsenic	7440382	SW-846 6010		**0.0226**	**0.0187 J**	**0.00842 J**	**0.0241**	**0.0301**	**0.0193 J**	**0.0409**
Arsenic, Dissolved	7440382	SW-846 6010		**0.024**	**0.0263 J**	**0.0188 J**	**0.0162**	**0.0169**	**0.0345 J**	**0.0337**
Atrazine	1912249	SW-846 8270		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzene	71432	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
bis(2-Ethylhexyl)phthalate	117817	SW-846 8270		**0.0136 J**	<0.01 J	<0.01	<0.01	**0.00992 J**	<0.01	<0.01
Biological Oxygen Demand, 5 day	NAV	EPA 405.1		<6	<6	<6	<6	<6	<6	<6
Bromodichloromethane	75274	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bromoform	75252	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bromomethane	74839	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Carbon disulfide	75150	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Carbon tetrachloride	56235	SW-846 8260		**0.0195**	**0.0191**	<0.005	<0.005	**0.0238**	**0.00538**	**0.0273**
Chemical Oxygen Demand	NAV	EPA 410.4		**19**	**25**	**17**	**66**	**24**	**31**	**29**
Chloride	16887006	EPA 325.3		**23 J**	**28 J**	**18.1 J**	**19.7 J**	**18.1 J**	**19.7 J**	**23 J**
Chlorobenzene	108907	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroethane	75003	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroform	67663	SW-846 8260		**0.00355 J**	**0.00335 J**	<0.005	<0.005	**0.00422 J**	**0.00069 J**	**0.00238 J**
Chloromethane	74873	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroprene	126998	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

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Table 8. Summary of Storm Water Analytical Data, Site Characterization Report, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Parameter	CAS No.	Analytical Method	Sample ID: Sample Date:	SW-DISCHARGE POND A (020207) 2/2/2007	SW-DUP-02 (020207) SW-DISCHARGE POND A (020207) 2/2/2007	SW-NORTH POND(020207) 2/2/2007	SW-NORTH SUMP(020207) 2/2/2007	SW-POND A (020207) 2/2/2007	SW-POND B (020207) 2/2/2007	SW-POND C (020207) 2/2/2007
cis-1,3-Dichloropropene	10061015	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cyanazine	21725462	SW-846 8270		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibromochloromethane	124481	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dibromomethane	74953	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dichlorodifluoromethane	75718	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dinoseb	88857	SW-846 8151		**0.0187 R**	**0.0218 R**	<0.002	<0.002	**0.0151 R**	**0.0213 R**	**0.0144 R**
Ethyl methacrylate	97632	SW-846 8260		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Ethylbenzene	100414	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride	16984488	EPA 340.2		**0.22**	**0.22**	<0.1	<0.1	**0.21**	**0.23**	**0.23**
Iodomethane	74884	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Isobutanol	78831	SW-846 8260		<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
m&p-Xylene	#N/A	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Methacrylonitrile	126987	SW-846 8260		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methyl methacrylate	80626	SW-846 8260		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Methylene chloride	75092	SW-846 8260		**0.0236 J**	**0.0278 J**	**0.0224 J**	**0.0216 J**	**0.0277 J**	**0.0315 J**	**0.025 J**
Nitrate-Nitrite (as N)	NAV	EPA 353.2		**16.3**	**16.8**	<0.1	<0.1	**17**	**15.8**	**30.1**
Nitrogen, Ammonia	7664417	EPA 350.1		**1.92 J**	**3.41 J**	<0.1 J	<0.1 J	**0.937 J**	**2.18 J**	**6.14 J**
o-Xylene	95476	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Pentachlorophenol	87865	SW-846 8270		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
pH	NAV	EPA 150.1		**7.4**	**7.71**	**9.27**	**8.02**	**7.88**	**7.73**	**7.29**
Phosphorus	7723140	EPA 365.4		**1.76**	**1.73**	**0.117**	**1.47**	**2.01**	**2.2**	**2.06**
Propionitrile	107120	SW-846 8260		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Styrene	100425	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Sulfate	14808798	EPA 375.4		<1	<1	<1	**1**	<1	<1	<1
Tetrachloroethene	127184	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	108883	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Dissolved Solids	NAV	EPA 160.1		**245**	**245**	**120**	**240**	**325**	**215**	**370**
Total Suspended Solids	NAV	EPA 160.2		**5 J**	**9 J**	<4	**34**	**5**	**4**	**5**
Toxaphene	8001352	SW-846 8081		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
trans-1,2-Dichloroethene	156605	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
trans-1,3-Dichloropropene	10061026	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
trans-1,4-Dichloro-2-butene	110576	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloroethene	79016	SW-846 8260		**0.00339 J**	**0.00332 J**	<0.005	<0.005	**0.00298 J**	**0.00232 J**	**0.0143**
Trichlorofluoromethane	75694	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Vinyl acetate	108054	SW-846 8260		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Vinyl chloride	75014	SW-846 8260		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

All concentrations in milligrams per liter (mg/L) except pH (standard units).

B Analyte was detected in an associated blank.

J Estimated.

NAV Not available.

R Rejected

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Table 9. Summary of Storm Water Quality Assurance/Quality Control (QA/QC) Analytical Data, Site Characterization Report, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

	CAS No.	Analytical Method	Sample ID: TRIP BLANK Sample Date: 2/1/2007
1,1,1,2-Tetrachloroethane	630206	SW-846 8260	<0.005
1,1,1-Trichloroethane	71556	SW-846 8260	<0.005
1,1,2,2-Tetrachloroethane	79345	SW-846 8260	<0.005
1,1,2-Trichloroethane	79005	SW-846 8260	<0.005
1,1-Dichloroethane	75343	SW-846 8260	<0.005
1,1-Dichloroethene	75354	SW-846 8260	<0.005
1,2,3-Trichloropropane	96184	SW-846 8260	<0.005
1,2,4-Trimethylbenzene	95636	SW-846 8260	<0.005
1,2-Dibromo-3-chloropropane	96128	SW-846 8260	<0.005
1,2-Dibromoethane (EDB)	106934	SW-846 8260	<0.005
1,2-Dichloroethane	107062	SW-846 8260	<0.005
1,2-Dichloropropane	78875	SW-846 8260	<0.005
1,3,5-Trimethylbenzene	108678	SW-846 8260	<0.005
1,4-Dioxane (p-Dioxane)	123911	SW-846 8260	<0.25
2-Butanone (MEK)	78933	SW-846 8260	<0.01
2-Hexanone	591786	SW-846 8260	<0.01
4-Methyl-2-pentanone (MIBK)	108101	SW-846 8260	<0.01
Acetone	67641	SW-846 8260	<0.01
Acetonitrile	75058	SW-846 8260	<0.1
Acrolein	107028	SW-846 8260	<0.02
Acrylonitrile	107131	SW-846 8260	<0.02
Allyl chloride	107051	SW-846 8260	<0.01
Benzene	71432	SW-846 8260	<0.005
Bromodichloromethane	75274	SW-846 8260	<0.005
Bromoform	75252	SW-846 8260	<0.005
Bromomethane	74839	SW-846 8260	<0.005
Carbon disulfide	75150	SW-846 8260	<0.005
Carbon tetrachloride	56235	SW-846 8260	<0.005
Chlorobenzene	108907	SW-846 8260	<0.005
Chloroethane	75003	SW-846 8260	<0.005
Chloroform	67663	SW-846 8260	<0.005
Chloromethane	74873	SW-846 8260	<0.005
Chloroprene	126998	SW-846 8260	<0.005
cis-1,3-Dichloropropene	10061015	SW-846 8260	<0.005
Dibromochloromethane	124481	SW-846 8260	<0.005
Dibromomethane	74953	SW-846 8260	<0.005
Dichlorodifluoromethane	75718	SW-846 8260	<0.005
Ethyl methacrylate	97632	SW-846 8260	<0.01
Ethylbenzene	100414	SW-846 8260	<0.005
Iodomethane	74884	SW-846 8260	<0.005
Isobutanol	78831	SW-846 8260	<0.25
m&p-Xylene	#N/A	SW-846 8260	<0.005
Methacrylonitrile	126987	SW-846 8260	<0.1
Methyl methacrylate	80626	SW-846 8260	<0.01
Methylene chloride	75092	SW-846 8260	<0.005
o-Xylene	95476	SW-846 8260	<0.005
Propionitrile	107120	SW-846 8260	<0.02
Styrene	100425	SW-846 8260	<0.005
Tetrachloroethene	127184	SW-846 8260	<0.005
Toluene	108883	SW-846 8260	<0.005
trans-1,2-Dichloroethene	156605	SW-846 8260	<0.005
trans-1,3-Dichloropropene	10061026	SW-846 8260	<0.005
trans-1,4-Dichloro-2-butene	110576	SW-846 8260	<0.005
Trichloroethene	79016	SW-846 8260	<0.005
Trichlorofluoromethane	75694	SW-846 8260	<0.005
Vinyl acetate	108054	SW-846 8260	<0.01
Vinyl chloride	75014	SW-846 8260	<0.005

All concentrations in milligrams per liter (mg/L).

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Table 10. Summary of Groundwater Analytical Data, Site Characterization Report, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Parameter	Analytical Method	CAS No.	Groundwater Tier 1 TRG (mg/L)	Reporting Limit (mg/L)	Sample ID:	MW-1A (020707)	MW-1A	MW-1C (020707)	DUP 02 (020707) MW-1C (020707)	MW-1C	MW-2 (013007)	MW-2	MW-4 (020107)	MW-4	MW-4
					Sample Date:	2/7/2007	3/20/2008	2/7/2007	2/7/2007	3/20/2008	1/30/2007	3/19/2008	2/1/2007	5/4/2007	3/25/2008
1,1,1,2-Tetrachloroethane[1]	SW-846 8260B	630206	0.000406	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
1,1,1-Trichloroethane	SW-846 8260B	71556	0.2	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
1,1,2,2-Tetrachloroethane[1]	SW-846 8260B	79345	0.0000527	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
1,1,2-Trichloroethane	SW-846 8260B	79005	0.005	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
1,1-Dichloroethane	SW-846 8260B	75343	0.798	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
1,1-Dichloroethene	SW-846 8260B	75354	0.007	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
1,2,3-Trichloropropane[1]	SW-846 8260B	96184	0.00000623	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
1,2,4-Trimethylbenzene	SW-846 8260B	95636	0.0123	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
1,2-Dibromo-3-chloropropane[1]	SW-846 8260B	96128	0.0002	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
1,2-Dibromoethane (EDB)[1]	SW-846 8260B	106934	0.00005	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
1,2-Dichloroethane	SW-846 8260B	107062	0.005	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
1,2-Dichloropropane	SW-846 8260B	78875	0.005	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
1,3,5-Trimethylbenzene	SW-846 8260B	108678	0.0123	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
1,4-Dioxane (p-Dioxane)	SW-846 8260B	123911	0.00609	0.25		<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	NA	<0.25
2-Butanone (MEK)	SW-846 8260B	78933	1.91	0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01
2-Hexanone	SW-846 8260B	591786	1.46	0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01
4-Methyl-2-pentanone (MIBK)	SW-846 8260B	108101	0.139	0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01
4-Nitrophenol	SW-846 8270	100027	0.292	0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01
Acetone	SW-846 8260B	67641	0.608	0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	**0.0174 UB**	NA	<0.01
Acetonitrile	SW-846 8260B	75058	0.125	0.1		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	NA	<0.1
Acetophenone[1]	SW-846 8270	98862	0.0000416	0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01
Acrolein	SW-846 8260B	107028	0.0416	0.02		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	NA	<0.02
Acrylonitrile[1]	SW-846 8260B	107131	0.0000367	0.02		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	NA	<0.02
Allyl chloride	SW-846 8260B	107051	NAV	0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01
Arsenic*	SW-846 6010	7440382	0.05	0.01		**0.0173**	**0.00073**	**0.0452**	**0.041**	**0.00092**	**0.0205**	**0.0011**	**0.0264**	NA	**0.0014**
Arsenic, Dissolved*	SW-846 6010	7440382	0.05	0.01		**0.0312**	**0.00076**	**0.0341 J**	**0.0177 J**	**0.00090**	**0.0217**	**0.0012**	**0.0244**	NA	**0.00099**
Atrazine[1]	SW-846 8270	1912249	0.003	0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01
Benzene	SW-846 8260B	71432	0.005	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
bis(2-Ethylhexyl)phthalate[1]	SW-846 8270	117817	0.006	0.01		<0.01	<0.01	<0.01	<0.01	<0.01	**0.0106**	<0.01	<0.01	NA	<0.01
Bromodichloromethane[1]	SW-846 8260B	75274	0.000168	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
Bromoform	SW-846 8260B	75252	0.00848	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
Bromomethane	SW-846 8260B	74839	0.00852	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
Carbon disulfide	SW-846 8260B	75150	1.04	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
Carbon tetrachloride	SW-846 8260B	56235	0.005	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
Chlorobenzene	SW-846 8260B	108907	0.1	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
Chloroethane[1]	SW-846 8260B	75003	0.00364	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
Chloroform[1]	SW-846 8260B	67663	0.000155	0.005		**0.00066 J**	**0.0007 J**	**0.00085 J**	**0.00076 J**	**0.00066 J**	<0.005	<0.005	<0.005	NA	<0.005
Chloromethane[1]	SW-846 8260B	74873	0.00143	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
Chloroprene	SW-846 8260B	126998	0.0143	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
cis-1,3-Dichloropropene[1]	SW-846 8260B	10061015	0.0000842	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
Cyanazine[1]	SW-846 8270	21725462	0.0000797	0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01
Dibromochloromethane[1]	SW-846 8260B	124481	0.000126	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
Dibromomethane	SW-846 8260B	74953	0.0608	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
Dichlorodifluoromethane	SW-846 8260B	75718	0.348	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
Dinoseb	SW-846 8151	88857	0.007	0.002		**0.0322**	**0.0552**	**0.0235**	**0.0292**	**0.0446**	<0.002	<0.01	<0.002	NA	<0.01
Ethyl methacrylate	SW-846 8260B	97632	0.548	0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01
Ethylbenzene	SW-846 8260B	100414	0.7	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
Iodomethane	SW-846 8260B	74884	NAV	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
Isobutanol	SW-846 8260B	78831	1.83	0.25		<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	NA	<0.25
m&p-Xylene	SW-846 8260B	1330207	12.2	0.005		<0.005	<0.01	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	NA	<0.01
Methacrylonitrile[1]	SW-846 8260B	126987	0.00104	0.1		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	NA	<0.1
Methyl methacrylate	SW-846 8260B	80626	1.42	0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01
Methylene chloride[3]	SW-846 8260B	75092	0.005	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.0242 UB**	<0.005	<0.005
o-Xylene	SW-846 8260B	95476	12.2	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005

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Table 10. Summary of Groundwater Analytical Data, Site Characterization Report, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Parameter	Analytical Method	CAS No.	Groundwater Tier 1 TRG (mg/L)	Reporting Limit (mg/L)	Sample ID:	MW-1A (020707)	MW-1A	MW-1C (020707)	DUP 02 (020707) MW-1C (020707)	MW-1C	MW-2 (013007)	MW-2	MW-4 (020107)	MW-4	MW-4
					Sample Date:	2/7/2007	3/20/2008	2/7/2007	2/7/2007	3/20/2008	1/30/2007	3/19/2008	2/1/2007	5/4/2007	3/25/2008
Pentachlorophenol[1]	SW-846 8270	87865	0.001	0.01		**0.016**	<0.01	<0.01 J	**0.0101 J**	**0.00585 J**	<0.01	<0.01	<0.01	NA	<0.01
Propionitrile	SW-846 8260B	107120	NAV	0.02		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	NA	<0.02
Styrene	SW-846 8260B	100425	0.1	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
Tetrachloroethene	SW-846 8260B	127184	0.005	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
Toluene	SW-846 8260B	108883	1.0	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
Toxaphene	SW-846 8081	8001352	0.003	0.002		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	NA	<0.002
trans-1,2-Dichloroethene	SW-846 8260B	156605	0.1	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
trans-1,3-Dichloropropene[1]	SW-846 8260B	10061026	0.0000842	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
trans-1,4-Dichloro-2-butene[1][2]	SW-846 8260B	110576	0.00000135	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
Trichloroethene	SW-846 8260B	79016	0.005	0.005		**0.00695**	**0.00753**	**0.0112**	**0.0101**	**0.0208**	<0.005	**0.00065 J**	<0.005	NA	<0.005
Trichlorofluoromethane	SW-846 8260B	75694	1.29	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
Vinyl acetate	SW-846 8260B	108054	0.412	0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01
Vinyl chloride[1]	SW-846 8260B	75014	0.002	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005

All concentrations are in milligrams per liter (mg/L).

(1) When the TRG was less than the Reporting Limit (RL), the RL was used as the screening value. Values less than the RL are qualified with a "J" qualifier.

(2) The Tier 1 TRG for 1,4-dichloro-2-butene was used for trans-1,4-dichloro-2-butene.

(3) The MW-10C and PZ-20B samples were shipped with Quality Assurance/Quality Control (QA/QC) samples TB-03 and TB-02, respectively. Each methylene chloride sample result is less than ten times the methylene chloride concentration reported in the applicable QA/QC sample result.

B Detected in blank.

J Estimated value.

NA Not analyzed.

NAV Not available.

R Rejected.

TRG Target Remediation Goal.

UB Non-detect due to associated blank contamination.

* While the MDEQ Tier 1 TRG for arsenic is 0.05 mg/L, the EPA mandated maximum contaminant level for arsenic is 0.01 mg/L and was used as the screening value.

Shaded result indicates concentration above TRG (restricted).

Note: Sufficient sample volume was not available at SPUW (013107). Therefore, total and dissolved arsenic were not collected at SPUW (013107).

TP-PZ-01 through TP-PZ-07 were collected for all analyses on May 1, 2007. However, the laboratory only analyzed for volatile organic compounds and metals.

The samples were re-collected on May 30, 2007, for analysis of semivolatile organic compounds and pesticides.

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Table 10. Summary of Groundwater Analytical Data, Site Characterization Report, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Parameter	Analytical Method	CAS No.	Groundwater Tier 1 TRG (mg/L)	Reporting Limit (mg/L)	Sample ID: / Sample Date:	MW-5 (013007) 1/30/2007	MW-5 3/18/2008	MW-6 (013007) 1/30/2007	MW-6 5/3/2007	MW-6 3/18/2008	MW-7 (013007) 1/30/2007	MW-7 3/18/2008	MW-8 (020607) 2/6/2007	MW-8 3/19/2008	MW-9 (020607) 2/6/2007
1,1,1,2-Tetrachloroethane[1]	SW-846 8260B	630206	0.000406	0.005		<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,1-Trichloroethane	SW-846 8260B	71556	0.2	0.005		<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,2,2-Tetrachloroethane[1]	SW-846 8260B	79345	0.0000527	0.005		<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,2-Trichloroethane	SW-846 8260B	79005	0.005	0.005		<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1-Dichloroethane	SW-846 8260B	75343	0.798	0.005		<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1-Dichloroethene	SW-846 8260B	75354	0.007	0.005		<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2,3-Trichloropropane[1]	SW-846 8260B	96184	0.00000623	0.005		<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2,4-Trimethylbenzene	SW-846 8260B	95636	0.0123	0.005		<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dibromo-3-chloropropane[1]	SW-846 8260B	96128	0.0002	0.005		<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dibromoethane (EDB)[1]	SW-846 8260B	106934	0.00005	0.005		<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichloroethane	SW-846 8260B	107062	0.005	0.005		<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichloropropane	SW-846 8260B	78875	0.005	0.005		<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,3,5-Trimethylbenzene	SW-846 8260B	108678	0.0123	0.005		<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,4-Dioxane (p-Dioxane)	SW-846 8260B	123911	0.00609	0.25		<0.25	<0.25	<0.25	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
2-Butanone (MEK)	SW-846 8260B	78933	1.91	0.01		<0.01	<0.01	<0.01	NA	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Hexanone	SW-846 8260B	591786	1.46	0.01		<0.01	<0.01	<0.01	NA	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
4-Methyl-2-pentanone (MIBK)	SW-846 8260B	108101	0.139	0.01		<0.01	<0.01	<0.01	NA	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
4-Nitrophenol	SW-846 8270	100027	0.292	0.01		<0.01	<0.01	<0.01	NA	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acetone	SW-846 8260B	67641	0.608	0.01		<0.01	<0.01	<0.01	NA	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acetonitrile	SW-846 8260B	75058	0.125	0.1		<0.1	<0.1	<0.1	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acetophenone[1]	SW-846 8270	98862	0.0000416	0.01		<0.01	<0.01	<0.01	NA	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acrolein	SW-846 8260B	107028	0.0416	0.02		<0.02	<0.02	<0.02	NA	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Acrylonitrile[1]	SW-846 8260B	107131	0.0000367	0.02		<0.02	<0.02	<0.02	NA	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Allyl chloride	SW-846 8260B	107051	NAV	0.01		<0.01	<0.01	<0.01	NA	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Arsenic*	SW-846 6010	7440382	0.05	0.01		**0.037**	**0.0024**	**0.0288**	NA	**0.0012**	**0.0478**	**0.0191**	**0.166**	**0.0322**	**0.0315**
Arsenic, Dissolved*	SW-846 6010	7440382	0.05	0.01		**0.0233**	**0.0019**	**0.0274**	NA	**0.00060**	**0.0311**	**0.0073**	**0.0554**	**0.0302**	**0.0399**
Atrazine[1]	SW-846 8270	1912249	0.003	0.01		<0.01	<0.01	<0.01	NA	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzene	SW-846 8260B	71432	0.005	0.005		<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	**0.00061 J**
bis(2-Ethylhexyl)phthalate[1]	SW-846 8270	117817	0.006	0.01		<0.01	<0.01	<0.01	NA	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bromodichloromethane[1]	SW-846 8260B	75274	0.000168	0.005		<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bromoform	SW-846 8260B	75252	0.00848	0.005		<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bromomethane	SW-846 8260B	74839	0.00852	0.005		<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Carbon disulfide	SW-846 8260B	75150	1.04	0.005		<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Carbon tetrachloride	SW-846 8260B	56235	0.005	0.005		<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chlorobenzene	SW-846 8260B	108907	0.1	0.005		<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroethane[1]	SW-846 8260B	75003	0.00364	0.005		<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroform[1]	SW-846 8260B	67663	0.000155	0.005		<0.005	<0.005	**0.00892**	**0.00227J**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloromethane[1]	SW-846 8260B	74873	0.00143	0.005		<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroprene	SW-846 8260B	126998	0.0143	0.005		<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
cis-1,3-Dichloropropene[1]	SW-846 8260B	10061015	0.0000842	0.005		<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cyanazine[1]	SW-846 8270	21725462	0.0000797	0.01		<0.01	<0.01	<0.01	NA	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibromochloromethane[1]	SW-846 8260B	124481	0.000126	0.005		<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dibromomethane	SW-846 8260B	74953	0.0608	0.005		<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dichlorodifluoromethane	SW-846 8260B	75718	0.348	0.005		<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dinoseb	SW-846 8151	88857	0.007	0.002		<0.002	<0.01	<0.002	NA	<0.01	<0.002	<0.01	<0.002	<0.01	<0.002
Ethyl methacrylate	SW-846 8260B	97632	0.548	0.01		<0.01	<0.01	<0.01	NA	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Ethylbenzene	SW-846 8260B	100414	0.7	0.005		<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Iodomethane	SW-846 8260B	74884	NAV	0.005		<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Isobutanol	SW-846 8260B	78831	1.83	0.25		<0.25	<0.25	<0.25	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
m&p-Xylene	SW-846 8260B	1330207	12.2	0.005		<0.005	<0.01	<0.005	NA	<0.01	<0.005	<0.01	<0.005	<0.01	<0.005
Methacrylonitrile[1]	SW-846 8260B	126987	0.00104	0.1		<0.1	<0.1	<0.1	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methyl methacrylate	SW-846 8260B	80626	1.42	0.01		<0.01	<0.01	<0.01	NA	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Methylene chloride[3]	SW-846 8260B	75092	0.005	0.005		<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
o-Xylene	SW-846 8260B	95476	12.2	0.005		<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

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Table 10. Summary of Groundwater Analytical Data, Site Characterization Report, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Parameter	Analytical Method	CAS No.	Groundwater Tier 1 TRG (mg/L)	Reporting Limit (mg/L)	Sample ID: / Sample Date:	MW-5 (013007) 1/30/2007	MW-5 3/18/2008	MW-6 (013007) 1/30/2007	MW-6 5/3/2007	MW-6 3/18/2008	MW-7 (013007) 1/30/2007	MW-7 3/18/2008	MW-8 (020607) 2/6/2007	MW-8 3/19/2008	MW-9 (020607) 2/6/2007
Pentachlorophenol[1]	SW-846 8270	87865	0.001	0.01		<0.01	<0.01	<0.01	NA	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Propionitrile	SW-846 8260B	107120	NAV	0.02		<0.02	<0.02	<0.02	NA	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Styrene	SW-846 8260B	100425	0.1	0.005		<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Tetrachloroethene	SW-846 8260B	127184	0.005	0.005		<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	SW-846 8260B	108883	1.0	0.005		<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toxaphene	SW-846 8081	8001352	0.003	0.002		<0.002	<0.002	<0.002	NA	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
trans-1,2-Dichloroethene	SW-846 8260B	156605	0.1	0.005		<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
trans-1,3-Dichloropropene[1]	SW-846 8260B	10061026	0.0000842	0.005		<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
trans-1,4-Dichloro-2-butene[1][2]	SW-846 8260B	110576	0.00000135	0.005		<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloroethene	SW-846 8260B	79016	0.005	0.005		<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichlorofluoromethane	SW-846 8260B	75694	1.29	0.005		<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Vinyl acetate	SW-846 8260B	108054	0.412	0.01		<0.01	<0.01	<0.01	NA	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Vinyl chloride[1]	SW-846 8260B	75014	0.002	0.005		<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	**0.00135 J**	<0.005

All concentrations are in milligrams per liter (mg/L).

(1) When the TRG was less than the Reporting Limit (RL), the RL was used as the screening value. Values less than the RL are qualified with a "J" qualifier.

(2) The Tier 1 TRG for 1,4-dichloro-2-butene was used for trans-1,4-dichloro-2-butene.

(3) The MW-10C and PZ-20B samples were shipped with Quality Assurance/Quality Control (QA/QC) samples TB-03 and TB-02, respectively. Each methylene chloride sample result is less than ten times the methylene chloride concentration reported in the applicable QA/QC sample result.

B Detected in blank.

J Estimated value.

NA Not analyzed.

NAV Not available.

R Rejected.

TRG Target Remediation Goal.

UB Non-detect due to associated blank contamination.

* While the MDEQ Tier 1 TRG for arsenic is 0.05 mg/L, the EPA mandated maximum contaminant level for arsenic is 0.01 mg/L and was used as the screening value.

Shaded result indicates concentration above TRG (restricted).

Note: Sufficient sample volume was not available at SPUW (013107). Therefore, total and dissolved arsenic were not collected at SPUW (013107).

TP-PZ-01 through TP-PZ-07 were collected for all analyses on May 1, 2007. However, the laboratory only analyzed for volatile organic compounds and metals.

The samples were re-collected on May 30, 2007, for analysis of semivolatile organic compounds and pesticides.

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Table 10. Summary of Groundwater Analytical Data, Site Characterization Report, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Parameter	Analytical Method	CAS No.	Groundwater Tier 1 TRG (mg/L)	Reporting Limit (mg/L)	Sample ID:	MW-9	MW-10 (020807)	MW-10	MW-10C (020807)	MW-10C	MW-11 (020807)	MW-11	MW-12 (021207)	MW-12C (021207)	MW-12C
					Sample Date:	3/26/2008	2/8/2007	3/26/2008	2/8/2007	3/25/2008	2/8/2007	3/25/2008	2/12/2007	2/12/2007	3/19/2008
1,1,1,2-Tetrachloroethane[1]	SW-846 8260B	630206	0.000406	0.005		NA	<0.005	NA	**0.00158 J**	**0.00188 J**	<0.005	<0.005	<0.005	<1	<0.25
1,1,1-Trichloroethane	SW-846 8260B	71556	0.2	0.005		NA	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<0.25
1,1,2,2-Tetrachloroethane[1]	SW-846 8260B	79345	0.0000527	0.005		NA	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<0.25
1,1,2-Trichloroethane	SW-846 8260B	79005	0.005	0.005		NA	<0.005	NA	**0.00124 J**	**0.00136 J**	<0.005	<0.005	<0.005	**0.122 J**	**0.0395 J**
1,1-Dichloroethane	SW-846 8260B	75343	0.798	0.005		NA	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<0.25
1,1-Dichloroethene	SW-846 8260B	75354	0.007	0.005		NA	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<0.25
1,2,3-Trichloropropane[1]	SW-846 8260B	96184	0.00000623	0.005		NA	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<0.25
1,2,4-Trimethylbenzene	SW-846 8260B	95636	0.0123	0.005		NA	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<0.25
1,2-Dibromo-3-chloropropane[1]	SW-846 8260B	96128	0.0002	0.005		NA	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<0.25
1,2-Dibromoethane (EDB)[1]	SW-846 8260B	106934	0.00005	0.005		NA	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<0.25
1,2-Dichloroethane	SW-846 8260B	107062	0.005	0.005		NA	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<1	**0.0655 J**
1,2-Dichloropropane	SW-846 8260B	78875	0.005	0.005		NA	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<0.25
1,3,5-Trimethylbenzene	SW-846 8260B	108678	0.0123	0.005		NA	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<0.25
1,4-Dioxane (p-Dioxane)	SW-846 8260B	123911	0.00609	0.25		NA	<0.25	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<50	<12.5
2-Butanone (MEK)	SW-846 8260B	78933	1.91	0.01		NA	<0.01	NA	<0.01	<0.01	<0.01	<0.01	<0.01	<2	<0.5
2-Hexanone	SW-846 8260B	591786	1.46	0.01		NA	<0.01	NA	<0.01	<0.01	<0.01	<0.01	<0.01	<2	<0.5
4-Methyl-2-pentanone (MIBK)	SW-846 8260B	108101	0.139	0.01		NA	<0.01	NA	<0.01	<0.01	<0.01	<0.01	<0.01	<2	<0.5
4-Nitrophenol	SW-846 8270	100027	0.292	0.01		NA	<0.01	NA	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acetone	SW-846 8260B	67641	0.608	0.01		NA	<0.01	NA	<0.01	<0.01	<0.01	<0.01	<0.01	<2	<0.5
Acetonitrile	SW-846 8260B	75058	0.125	0.1		NA	<0.1	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<20	<5
Acetophenone[1]	SW-846 8270	98862	0.0000416	0.01		NA	<0.01	NA	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acrolein	SW-846 8260B	107028	0.0416	0.02		NA	<0.02	NA	<0.02	<0.02	<0.02	<0.02	<0.02	<4	<1
Acrylonitrile[1]	SW-846 8260B	107131	0.0000367	0.02		NA	<0.02	NA	<0.02	<0.02	<0.02	<0.02	<0.02	<4	<1
Allyl chloride	SW-846 8260B	107051	NAV	0.01		NA	<0.01	NA	<0.01	<0.01	<0.01	<0.01	<0.01	<2	<0.5
Arsenic*	SW-846 6010	7440382	0.05	0.01		**0.001**	**0.0394**	**0.0085**	**0.0228**	**0.00083**	**0.0298**	**0.00060**	**0.03**	**0.0333**	**0.0020**
Arsenic, Dissolved*	SW-846 6010	7440382	0.05	0.01		**0.0011**	**0.0255**	**0.0023**	**0.0226**	**0.00064**	**0.0334**	**0.00063**	**0.0181**	**0.0314**	**0.0011**
Atrazine[1]	SW-846 8270	1912249	0.003	0.01		NA	<0.01	NA	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzene	SW-846 8260B	71432	0.005	0.005		NA	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<0.25
bis(2-Ethylhexyl)phthalate[1]	SW-846 8270	117817	0.006	0.01		NA	<0.01	NA	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bromodichloromethane[1]	SW-846 8260B	75274	0.000168	0.005		NA	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<0.25
Bromoform	SW-846 8260B	75252	0.00848	0.005		NA	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<0.25
Bromomethane	SW-846 8260B	74839	0.00852	0.005		NA	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<0.25
Carbon disulfide	SW-846 8260B	75150	1.04	0.005		NA	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<0.25
Carbon tetrachloride	SW-846 8260B	56235	0.005	0.005		NA	<0.005	NA	**0.243**	**0.348**	<0.005	<0.005	<0.005	**17.2**	**8.84**
Chlorobenzene	SW-846 8260B	108907	0.1	0.005		NA	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<0.25
Chloroethane[1]	SW-846 8260B	75003	0.00364	0.005		NA	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<0.25
Chloroform[1]	SW-846 8260B	67663	0.000155	0.005		NA	<0.005	NA	**0.43**	**0.475**	<0.005	<0.005	<0.005	**5.78**	**2.25**
Chloromethane[1]	SW-846 8260B	74873	0.00143	0.005		NA	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<0.25
Chloroprene	SW-846 8260B	126998	0.0143	0.005		NA	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<0.25
cis-1,3-Dichloropropene[1]	SW-846 8260B	10061015	0.0000842	0.005		NA	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<0.25
Cyanazine[1]	SW-846 8270	21725462	0.0000797	0.01		NA	<0.01	NA	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibromochloromethane[1]	SW-846 8260B	124481	0.000126	0.005		NA	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<0.25
Dibromomethane	SW-846 8260B	74953	0.0608	0.005		NA	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<0.25
Dichlorodifluoromethane	SW-846 8260B	75718	0.348	0.005		NA	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<0.25
Dinoseb	SW-846 8151	88857	0.007	0.002		NA	<0.002	NA	**2.32**	**3.28**	**0.013**	**0.0101**	<0.002	**14.4**	**0.686**
Ethyl methacrylate	SW-846 8260B	97632	0.548	0.01		NA	<0.01	NA	<0.01	<0.01	<0.01	<0.01	<0.01	<2	<0.5
Ethylbenzene	SW-846 8260B	100414	0.7	0.005		NA	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<0.25
Iodomethane	SW-846 8260B	74884	NAV	0.005		NA	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<0.25
Isobutanol	SW-846 8260B	78831	1.83	0.25		NA	<0.25	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<50	<12.5
m&p-Xylene	SW-846 8260B	1330207	12.2	0.005		NA	<0.005	NA	<0.005	<0.01	<0.005	<0.01	<0.005	<1	<0.5
Methacrylonitrile[1]	SW-846 8260B	126987	0.00104	0.1		NA	<0.1	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<20	<5
Methyl methacrylate	SW-846 8260B	80626	1.42	0.01		NA	<0.01	NA	<0.01	<0.01	<0.01	<0.01	<0.01	<2	<0.5
Methylene chloride[3]	SW-846 8260B	75092	0.005	0.005		NA	<0.005	NA	<0.005	**0.00098 B**	<0.005	<0.005	<0.005	<1	<0.25
o-Xylene	SW-846 8260B	95476	12.2	0.005		NA	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<0.25

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Table 10. Summary of Groundwater Analytical Data, Site Characterization Report, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Parameter	Analytical Method	CAS No.	Groundwater Tier 1 TRG (mg/L)	Reporting Limit (mg/L)	Sample ID:	MW-9	MW-10 (020807)	MW-10	MW-10C (020807)	MW-10C	MW-11 (020807)	MW-11	MW-12 (021207)	MW-12C (021207)	MW-12C
					Sample Date:	3/26/2008	2/8/2007	3/26/2008	2/8/2007	3/25/2008	2/8/2007	3/25/2008	2/12/2007	2/12/2007	3/19/2008
Pentachlorophenol[1]	SW-846 8270	87865	0.001	0.01		NA	<0.01	NA	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Propionitrile	SW-846 8260B	107120	NAV	0.02		NA	<0.02	NA	<0.02	<0.02	<0.02	<0.02	<0.02	<4	<1
Styrene	SW-846 8260B	100425	0.1	0.005		NA	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<0.25
Tetrachloroethene	SW-846 8260B	127184	0.005	0.005		NA	<0.005	NA	**0.00168 J**	**0.00215 J**	<0.005	<0.005	<0.005	<1	**0.0305 J**
Toluene	SW-846 8260B	108883	1.0	0.005		NA	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<0.25
Toxaphene	SW-846 8081	8001352	0.003	0.002		NA	<0.002	NA	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
trans-1,2-Dichloroethene	SW-846 8260B	156605	0.1	0.005		NA	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<0.25
trans-1,3-Dichloropropene[1]	SW-846 8260B	10061026	0.0000842	0.005		NA	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<0.25
trans-1,4-Dichloro-2-butene[1][2]	SW-846 8260B	110576	0.00000135	0.005		NA	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<0.25
Trichloroethene	SW-846 8260B	79016	0.005	0.005		NA	<0.005	NA	<0.005	<0.005	**0.00578**	0.0093	<0.005	**0.15 J**	**0.0285 J**
Trichlorofluoromethane	SW-846 8260B	75694	1.29	0.005		NA	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<0.25
Vinyl acetate	SW-846 8260B	108054	0.412	0.01		NA	<0.01	NA	<0.01	<0.01	<0.01	<0.01	<0.01	<2	<0.5
Vinyl chloride[1]	SW-846 8260B	75014	0.002	0.005		NA	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<0.25

All concentrations are in milligrams per liter (mg/L).

(1) When the TRG was less than the Reporting Limit (RL), the RL was used as the screening value. Values less than the RL are qualified with a "J" qualifier.

(2) The Tier 1 TRG for 1,4-dichloro-2-butene was used for trans-1,4-dichloro-2-butene.

(3) The MW-10C and PZ-20B samples were shipped with Quality Assurance/Quality Control (QA/QC) samples TB-03 and TB-02, respectively. Each methylene chloride sample result is less than ten times the methylene chloride concentration reported in the applicable QA/QC sample result.

B Detected in blank.

J Estimated value.

NA Not analyzed.

NAV Not available.

R Rejected.

TRG Target Remediation Goal.

UB Non-detect due to associated blank contamination.

* While the MDEQ Tier 1 TRG for arsenic is 0.05 mg/L, the EPA mandated maximum contaminant level for arsenic is 0.01 mg/L and was used as the screening value.

Shaded result indicates concentration above TRG (restricted).

Note: Sufficient sample volume was not available at SPUW (013107). Therefore, total and dissolved arsenic were not collected at SPUW (013107).

TP-PZ-01 through TP-PZ-07 were collected for all analyses on May 1, 2007. However, the laboratory only analyzed for volatile organic compounds and metals.

The samples were re-collected on May 30, 2007, for analysis of semivolatile organic compounds and pesticides.

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Table 10. Summary of Groundwater Analytical Data, Site Characterization Report, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Parameter	Analytical Method	CAS No.	Groundwater Tier 1 TRG (mg/L)	Reporting Limit (mg/L)	Sample ID:	DUP-01 MW-12C	MW-13 (021207)	MW-14 (020607)	MW-14	MW-16 (020607)	MW-17A (020607)	MW-17B (020707)	MW-17B	MW-18A (020707)
					Sample Date:	3/19/2008	2/12/2007	2/6/2007	3/20/2008	2/6/2007	2/7/2007	2/7/2007	3/25/2008	2/7/2007
1,1,1,2-Tetrachloroethane[1]	SW-846 8260B	630206	0.000406	0.005		<0.25	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
1,1,1-Trichloroethane	SW-846 8260B	71556	0.2	0.005		<0.25	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
1,1,2,2-Tetrachloroethane[1]	SW-846 8260B	79345	0.0000527	0.005		<0.25	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
1,1,2-Trichloroethane	SW-846 8260B	79005	0.005	0.005		**0.039 J**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
1,1-Dichloroethane	SW-846 8260B	75343	0.798	0.005		<0.25	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
1,1-Dichloroethene	SW-846 8260B	75354	0.007	0.005		<0.25	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
1,2,3-Trichloropropane[1]	SW-846 8260B	96184	0.00000623	0.005		<0.25	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
1,2,4-Trimethylbenzene	SW-846 8260B	95636	0.0123	0.005		<0.25	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
1,2-Dibromo-3-chloropropane[1]	SW-846 8260B	96128	0.0002	0.005		<0.25	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
1,2-Dibromoethane (EDB)[1]	SW-846 8260B	106934	0.00005	0.005		<0.25	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
1,2-Dichloroethane	SW-846 8260B	107062	0.005	0.005		**0.0625 J**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
1,2-Dichloropropane	SW-846 8260B	78875	0.005	0.005		<0.25	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
1,3,5-Trimethylbenzene	SW-846 8260B	108678	0.0123	0.005		<0.25	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
1,4-Dioxane (p-Dioxane)	SW-846 8260B	123911	0.00609	0.25		<12.5	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	NA	<0.25
2-Butanone (MEK)	SW-846 8260B	78933	1.91	0.01		<0.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01
2-Hexanone	SW-846 8260B	591786	1.46	0.01		<0.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01
4-Methyl-2-pentanone (MIBK)	SW-846 8260B	108101	0.139	0.01		<0.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01
4-Nitrophenol	SW-846 8270	100027	0.292	0.01		<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01
Acetone	SW-846 8260B	67641	0.608	0.01		<0.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01
Acetonitrile	SW-846 8260B	75058	0.125	0.1		<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	NA	<0.1
Acetophenone[1]	SW-846 8270	98862	0.0000416	0.01		<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01
Acrolein	SW-846 8260B	107028	0.0416	0.02		<1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	NA	<0.02
Acrylonitrile[1]	SW-846 8260B	107131	0.0000367	0.02		<1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	NA	<0.02
Allyl chloride	SW-846 8260B	107051	NAV	0.01		<0.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01
Arsenic*	SW-846 6010	7440382	0.05	0.01		**0.0013**	**0.0612**	**0.0388**	**0.0014**	**0.0207**	**0.0188**	**0.0331**	**0.0686**	**0.109**
Arsenic, Dissolved*	SW-846 6010	7440382	0.05	0.01		**0.0010**	NA	**0.0331**	**0.0013**	**0.0179**	**0.014**	**0.0501**	**0.0688**	**0.061**
Atrazine[1]	SW-846 8270	1912249	0.003	0.01		<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01
Benzene	SW-846 8260B	71432	0.005	0.005		<0.25	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
bis(2-Ethylhexyl)phthalate[1]	SW-846 8270	117817	0.006	0.01		<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01
Bromodichloromethane[1]	SW-846 8260B	75274	0.000168	0.005		<0.25	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
Bromoform	SW-846 8260B	75252	0.00848	0.005		<0.25	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
Bromomethane	SW-846 8260B	74839	0.00852	0.005		<0.25	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
Carbon disulfide	SW-846 8260B	75150	1.04	0.005		<0.25	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
Carbon tetrachloride	SW-846 8260B	56235	0.005	0.005		**9.14**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
Chlorobenzene	SW-846 8260B	108907	0.1	0.005		<0.25	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
Chloroethane[1]	SW-846 8260B	75003	0.00364	0.005		<0.25	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
Chloroform[1]	SW-846 8260B	67663	0.000155	0.005		**2.37**	**0.00089 J**	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
Chloromethane[1]	SW-846 8260B	74873	0.00143	0.005		<0.25	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
Chloroprene	SW-846 8260B	126998	0.0143	0.005		<0.25	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
cis-1,3-Dichloropropene[1]	SW-846 8260B	10061015	0.0000842	0.005		<0.25	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
Cyanazine[1]	SW-846 8270	21725462	0.0000797	0.01		<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01
Dibromochloromethane[1]	SW-846 8260B	124481	0.000126	0.005		<0.25	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
Dibromomethane	SW-846 8260B	74953	0.0608	0.005		<0.25	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
Dichlorodifluoromethane	SW-846 8260B	75718	0.348	0.005		<0.25	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
Dinoseb	SW-846 8151	88857	0.007	0.002		**3.17**	<0.002	<0.002	<0.01	<0.002	<0.002	<0.002	NA	<0.002
Ethyl methacrylate	SW-846 8260B	97632	0.548	0.01		<0.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01
Ethylbenzene	SW-846 8260B	100414	0.7	0.005		<0.25	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
Iodomethane	SW-846 8260B	74884	NAV	0.005		<0.25	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
Isobutanol	SW-846 8260B	78831	1.83	0.25		<12.5	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	NA	<0.25
m&p-Xylene	SW-846 8260B	1330207	12.2	0.005		<0.5	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	NA	<0.005
Methacrylonitrile[1]	SW-846 8260B	126987	0.00104	0.1		<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	NA	<0.1
Methyl methacrylate	SW-846 8260B	80626	1.42	0.01		<0.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01
Methylene chloride[3]	SW-846 8260B	75092	0.005	0.005		<0.25	<0.005	**0.0017 UB**	<0.005	**0.00105 UB**	<0.005	<0.005	NA	<0.005
o-Xylene	SW-846 8260B	95476	12.2	0.005		<0.25	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005

Table 10. Summary of Groundwater Analytical Data, Site Characterization Report, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Parameter	Analytical Method	CAS No.	Groundwater Tier 1 TRG (mg/L)	Reporting Limit (mg/L)	Sample ID:	DUP-01	MW-12C	MW-13 (021207)	MW-14 (020607)	MW-14	MW-16 (020607)	MW-17A (020607)	MW-17B (020707)	MW-17B	MW-18A (020707)
					Sample Date:	3/19/2008	3/19/2008	2/12/2007	2/6/2007	3/20/2008	2/6/2007	2/7/2007	2/7/2007	3/25/2008	2/7/2007
Pentachlorophenol[1]	SW-846 8270	87865	0.001	0.01		<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01
Propionitrile	SW-846 8260B	107120	NAV	0.02		<1	<1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	NA	<0.02
Styrene	SW-846 8260B	100425	0.1	0.005		<0.25	<0.25	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
Tetrachloroethene	SW-846 8260B	127184	0.005	0.005		**0.0325 J**	**0.0325 J**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
Toluene	SW-846 8260B	108883	1.0	0.005		<0.25	<0.25	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
Toxaphene	SW-846 8081	8001352	0.003	0.002		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	NA	<0.002
trans-1,2-Dichloroethene	SW-846 8260B	156605	0.1	0.005		<0.25	<0.25	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
trans-1,3-Dichloropropene[1]	SW-846 8260B	10061026	0.0000842	0.005		<0.25	<0.25	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
trans-1,4-Dichloro-2-butene[1][2]	SW-846 8260B	110576	0.00000135	0.005		<0.25	<0.25	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
Trichloroethene	SW-846 8260B	79016	0.005	0.005		**0.0295 J**	**0.0295 J**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
Trichlorofluoromethane	SW-846 8260B	75694	1.29	0.005		<0.25	<0.25	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005
Vinyl acetate	SW-846 8260B	108054	0.412	0.01		<0.5	<0.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01
Vinyl chloride[1]	SW-846 8260B	75014	0.002	0.005		<0.25	<0.25	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005

All concentrations are in milligrams per liter (mg/L).

(1) When the TRG was less than the Reporting Limit (RL), the RL was used as the screening value. Values less than the RL are qualified with a "J" qualifier.

(2) The Tier 1 TRG for 1,4-dichloro-2-butene was used for trans-1,4-dichloro-2-butene.

(3) The MW-10C and PZ-20B samples were shipped with Quality Assurance/Quality Control (QA/QC) samples TB-03 and TB-02, respectively. Each methylene chloride sample result is less than ten times the methylene chloride concentration reported in the applicable QA/QC sample result.

B Detected in blank.

J Estimated value.

NA Not analyzed.

NAV Not available.

R Rejected.

TRG Target Remediation Goal.

UB Non-detect due to associated blank contamination.

* While the MDEQ Tier 1 TRG for arsenic is 0.05 mg/L, the EPA mandated maximum contaminant level for arsenic is 0.01 mg/L and was used as the screening value.

Shaded result indicates concentration above TRG (restricted).

Note: Sufficient sample volume was not available at SPUW (013107). Therefore, total and dissolved arsenic were not collected at SPUW (013107).

TP-PZ-01 through TP-PZ-07 were collected for all analyses on May 1, 2007. However, the laboratory only analyzed for volatile organic compounds and metals.

The samples were re-collected on May 30, 2007, for analysis of semivolatile organic compounds and pesticides.

ARCADIS

Table 10. Summary of Groundwater Analytical Data, Site Characterization Report, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Parameter	Analytical Method	CAS No.	Groundwater Tier 1 TRG (mg/L)	Reporting Limit (mg/L)	Sample ID:	MW-18B (020707)	MW-18B	PZ-12A (013107)	PZ-12B (013107)	PZ-20A (013107)	DUP-01 (013107) PZ-20A (013107)	PZ-20A	PZ-20B (013107)	PZ-20B
					Sample Date:	2/7/2007	3/25/2008	1/31/2007	1/31/2007	1/31/2007	1/31/2007	3/21/2008	1/31/2007	3/21/2008
1,1,1,2-Tetrachloroethane[1]	SW-846 8260B	630206	0.000406	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,1-Trichloroethane	SW-846 8260B	71556	0.2	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,2,2-Tetrachloroethane[1]	SW-846 8260B	79345	0.0000527	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,2-Trichloroethane	SW-846 8260B	79005	0.005	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1-Dichloroethane	SW-846 8260B	75343	0.798	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.00317 J**	**0.00414 J**
1,1-Dichloroethene	SW-846 8260B	75354	0.007	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2,3-Trichloropropane[1]	SW-846 8260B	96184	0.00000623	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2,4-Trimethylbenzene	SW-846 8260B	95636	0.0123	0.005		**0.201**	**0.329**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dibromo-3-chloropropane[1]	SW-846 8260B	96128	0.0002	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dibromoethane (EDB)[1]	SW-846 8260B	106934	0.00005	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichloroethane	SW-846 8260B	107062	0.005	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.00121 J**
1,2-Dichloropropane	SW-846 8260B	78875	0.005	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.00086 J**
1,3,5-Trimethylbenzene	SW-846 8260B	108678	0.0123	0.005		**0.0764**	**0.138**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,4-Dioxane (p-Dioxane)	SW-846 8260B	123911	0.00609	0.25		<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
2-Butanone (MEK)	SW-846 8260B	78933	1.91	0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Hexanone	SW-846 8260B	591786	1.46	0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
4-Methyl-2-pentanone (MIBK)	SW-846 8260B	108101	0.139	0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
4-Nitrophenol	SW-846 8270	100027	0.292	0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acetone	SW-846 8260B	67641	0.608	0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acetonitrile	SW-846 8260B	75058	0.125	0.1		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acetophenone[1]	SW-846 8270	98862	0.0000416	0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acrolein	SW-846 8260B	107028	0.0416	0.02		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Acrylonitrile[1]	SW-846 8260B	107131	0.0000367	0.02		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Allyl chloride	SW-846 8260B	107051	NAV	0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Arsenic*	SW-846 6010	7440382	0.05	0.01		**0.415**	**0.246**	<0.01	**0.0154**	**0.0237**	**0.034**	**0.00074**	**0.0452**	**0.0156**
Arsenic, Dissolved*	SW-846 6010	7440382	0.05	0.01		**0.366**	**0.284**	**0.0322**	**0.034**	**0.0391**	**0.0309**	**0.00054**	**0.0484**	**0.0151**
Atrazine[1]	SW-846 8270	1912249	0.003	0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzene	SW-846 8260B	71432	0.005	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
bis(2-Ethylhexyl)phthalate[1]	SW-846 8270	117817	0.006	0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bromodichloromethane[1]	SW-846 8260B	75274	0.000168	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.0132**	**0.0177**
Bromoform	SW-846 8260B	75252	0.00848	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.0197**	**0.0236**
Bromomethane	SW-846 8260B	74839	0.00852	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Carbon disulfide	SW-846 8260B	75150	1.04	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Carbon tetrachloride	SW-846 8260B	56235	0.005	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chlorobenzene	SW-846 8260B	108907	0.1	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroethane[1]	SW-846 8260B	75003	0.00364	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroform[1]	SW-846 8260B	67663	0.000155	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**2.09**	**2.53**
Chloromethane[1]	SW-846 8260B	74873	0.00143	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.00075 J**
Chloroprene	SW-846 8260B	126998	0.0143	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
cis-1,3-Dichloropropene[1]	SW-846 8260B	10061015	0.0000842	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cyanazine[1]	SW-846 8270	21725462	0.0000797	0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibromochloromethane[1]	SW-846 8260B	124481	0.000126	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.00863**	**0.0087**
Dibromomethane	SW-846 8260B	74953	0.0608	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dichlorodifluoromethane	SW-846 8260B	75718	0.348	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dinoseb	SW-846 8151	88857	0.007	0.002		<0.002	<0.01	<0.002	<0.002	<0.002	<0.002	<0.01	<0.002 R	<0.01
Ethyl methacrylate	SW-846 8260B	97632	0.548	0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Ethylbenzene	SW-846 8260B	100414	0.7	0.005		**0.134**	**0.234**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Iodomethane	SW-846 8260B	74884	NAV	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Isobutanol	SW-846 8260B	78831	1.83	0.25		<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
m&p-Xylene	SW-846 8260B	1330207	12.2	0.005		**0.139**	**0.179**	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.01
Methacrylonitrile[1]	SW-846 8260B	126987	0.00104	0.1		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methyl methacrylate	SW-846 8260B	80626	1.42	0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Methylene chloride[3]	SW-846 8260B	75092	0.005	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.0185 UB**	**0.0144**
o-Xylene	SW-846 8260B	95476	12.2	0.005		**0.0671**	**0.12**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

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Table 10. Summary of Groundwater Analytical Data, Site Characterization Report, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Parameter	Analytical Method	CAS No.	Groundwater Tier 1 TRG (mg/L)	Reporting Limit (mg/L)	Sample ID: / Sample Date:	MW-18B (020707) 2/7/2007	MW-18B 3/25/2008	PZ-12A (013107) 1/31/2007	PZ-12B (013107) 1/31/2007	PZ-20A (013107) 1/31/2007	DUP-01 (013107) PZ-20A (013107) 1/31/2007	PZ-20A 3/21/2008	PZ-20B (013107) 1/31/2007	PZ-20B 3/21/2008
Pentachlorophenol[1]	SW-846 8270	87865	0.001	0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Propionitrile	SW-846 8260B	107120	NAV	0.02		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Styrene	SW-846 8260B	100425	0.1	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Tetrachloroethene	SW-846 8260B	127184	0.005	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	SW-846 8260B	108883	1.0	0.005		<0.005	**0.00059 J**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toxaphene	SW-846 8081	8001352	0.003	0.002		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
trans-1,2-Dichloroethene	SW-846 8260B	156605	0.1	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
trans-1,3-Dichloropropene[1]	SW-846 8260B	10061026	0.0000842	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
trans-1,4-Dichloro-2-butene[1][2]	SW-846 8260B	110576	0.00000135	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloroethene	SW-846 8260B	79016	0.005	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.00103 J**
Trichlorofluoromethane	SW-846 8260B	75694	1.29	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Vinyl acetate	SW-846 8260B	108054	0.412	0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Vinyl chloride[1]	SW-846 8260B	75014	0.002	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

All concentrations are in milligrams per liter (mg/L).

(1) When the TRG was less than the Reporting Limit (RL), the RL was used as the screening value. Values less than the RL are qualified with a "J" qualifier.

(2) The Tier 1 TRG for 1,4-dichloro-2-butene was used for trans-1,4-dichloro-2-butene.

(3) The MW-10C and PZ-20B samples were shipped with Quality Assurance/Quality Control (QA/QC) samples TB-03 and TB-02, respectively. Each methylene chloride sample result is less than ten times the methylene chloride concentration reported in the applicable QA/QC sample result.

B Detected in blank.

J Estimated value.

NA Not analyzed.

NAV Not available.

R Rejected.

TRG Target Remediation Goal.

UB Non-detect due to associated blank contamination.

* While the MDEQ Tier 1 TRG for arsenic is 0.05 mg/L, the EPA mandated maximum contaminant level for arsenic is 0.01 mg/L and was used as the screening value.

Shaded result indicates concentration above TRG (restricted).

Note: Sufficient sample volume was not available at SPUW (013107). Therefore, total and dissolved arsenic were not collected at SPUW (013107).

TP-PZ-01 through TP-PZ-07 were collected for all analyses on May 1, 2007. However, the laboratory only analyzed for volatile organic compounds and metals.

The samples were re-collected on May 30, 2007, for analysis of semivolatile organic compounds and pesticides.

Table 10. Summary of Groundwater Analytical Data, Site Characterization Report, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Parameter	Analytical Method	CAS No.	Groundwater Tier 1 TRG (mg/L)	Reporting Limit (mg/L)	Sample ID:	PZ-21A (020107)	PZ-21A	PZ-22A (020807)	PZ-22A	PZ-22B (020807)	PZ-22B	PZ-23A (020107)	PZ-23B (020807)	PZ-23B
					Sample Date:	2/1/2007	3/24/2008	2/8/2007	3/26/2008	2/8/2007	3/24/2008	2/1/2007	2/8/2007	3/24/2008
1,1,1,2-Tetrachloroethane[1]	SW-846 8260B	630206	0.000406	0.005		<0.005	<0.005	<0.005	NA	<0.1	<0.25	<0.005	<0.005	<0.005
1,1,1-Trichloroethane	SW-846 8260B	71556	0.2	0.005		<0.005	<0.005	<0.005	NA	<0.1	<0.25	<0.005	<0.005	<0.005
1,1,2,2-Tetrachloroethane[1]	SW-846 8260B	79345	0.0000527	0.005		<0.005	<0.005	<0.005	NA	<0.1	<0.25	<0.005	<0.005	<0.005
1,1,2-Trichloroethane	SW-846 8260B	79005	0.005	0.005		<0.005	<0.005	<0.005	NA	<0.1	<0.25	<0.005	<0.005	<0.005
1,1-Dichloroethane	SW-846 8260B	75343	0.798	0.005		<0.005	<0.005	<0.005	NA	**0.0224 J**	**0.0275 J**	<0.005	<0.005	<0.005
1,1-Dichloroethene	SW-846 8260B	75354	0.007	0.005		<0.005	<0.005	<0.005	NA	<0.1	<0.25	<0.005	<0.005	<0.005
1,2,3-Trichloropropane[1]	SW-846 8260B	96184	0.00000623	0.005		<0.005	<0.005	<0.005	NA	<0.1	<0.25	<0.005	<0.005	<0.005
1,2,4-Trimethylbenzene	SW-846 8260B	95636	0.0123	0.005		<0.005	<0.005	<0.005	NA	<0.1	<0.25	<0.005	<0.005	<0.005
1,2-Dibromo-3-chloropropane[1]	SW-846 8260B	96128	0.0002	0.005		<0.005	<0.005	<0.005	NA	<0.1	<0.25	<0.005	<0.005	<0.005
1,2-Dibromoethane (EDB)[1]	SW-846 8260B	106934	0.00005	0.005		<0.005	<0.005	<0.005	NA	<0.1	<0.25	<0.005	<0.005	<0.005
1,2-Dichloroethane	SW-846 8260B	107062	0.005	0.005		<0.005	<0.005	<0.005	NA	<0.1	<0.25	<0.005	<0.005	<0.005
1,2-Dichloropropane	SW-846 8260B	78875	0.005	0.005		<0.005	<0.005	<0.005	NA	<0.1	<0.25	<0.005	<0.005	<0.005
1,3,5-Trimethylbenzene	SW-846 8260B	108678	0.0123	0.005		<0.005	<0.005	<0.005	NA	<0.1	<0.25	<0.005	<0.005	<0.005
1,4-Dioxane (p-Dioxane)	SW-846 8260B	123911	0.00609	0.25		<0.25	<0.25	<0.25	NA	<5	<12.5	<0.25	<0.25	<0.25
2-Butanone (MEK)	SW-846 8260B	78933	1.91	0.01		<0.01	<0.01	<0.01	NA	<0.2	<0.5	<0.01	<0.01	<0.01
2-Hexanone	SW-846 8260B	591786	1.46	0.01		<0.01	<0.01	<0.01	NA	<0.2	<0.5	<0.01	<0.01	<0.01
4-Methyl-2-pentanone (MIBK)	SW-846 8260B	108101	0.139	0.01		<0.01	<0.01	<0.01	NA	<0.2	<0.5	<0.01	<0.01	<0.01
4-Nitrophenol	SW-846 8270	100027	0.292	0.01		<0.01	<0.01	<0.01	NA	<0.01	<0.01	<0.01	<0.01	<0.01
Acetone	SW-846 8260B	67641	0.608	0.01		**0.0336 UB**	<0.01	<0.01	NA	<0.2	<0.5	**0.0201 UB**	<0.01	<0.01
Acetonitrile	SW-846 8260B	75058	0.125	0.1		<0.1	<0.1	<0.1	NA	<2	<5	<0.1	<0.1	<0.1
Acetophenone[1]	SW-846 8270	98862	0.0000416	0.01		<0.01	<0.01	<0.01	NA	<0.01	<0.01	<0.01	<0.01	<0.01
Acrolein	SW-846 8260B	107028	0.0416	0.02		<0.02	<0.02	<0.02	NA	<0.4	<1	<0.02	<0.02	<0.02
Acrylonitrile[1]	SW-846 8260B	107131	0.0000367	0.02		<0.02	<0.02	<0.02	NA	<0.4	<1	<0.02	<0.02	<0.02
Allyl chloride	SW-846 8260B	107051	NAV	0.01		<0.01	<0.01	<0.01	NA	<0.2	<0.5	<0.01	<0.01	<0.01
Arsenic*	SW-846 6010	7440382	0.05	0.01		**0.0328**	**0.00022**	**0.034**	**0.0152**	**0.0215**	**0.0085**	**0.0281**	**0.0661**	**0.0029**
Arsenic, Dissolved*	SW-846 6010	7440382	0.05	0.01		**0.0229**	<0.0002	**0.026**	**0.0104**	**0.0177**	**0.0083**	**0.032**	**0.028**	**0.006**
Atrazine[1]	SW-846 8270	1912249	0.003	0.01		<0.01	<0.01	<0.01	NA	<0.01	<0.01	<0.01	<0.01	<0.01
Benzene	SW-846 8260B	71432	0.005	0.005		<0.005	<0.005	<0.005	NA	<0.1	<0.25	<0.005	<0.005	<0.005
bis(2-Ethylhexyl)phthalate[1]	SW-846 8270	117817	0.006	0.01		<0.01	<0.01	<0.01	NA	<0.01	<0.01	<0.01	<0.01	<0.01
Bromodichloromethane[1]	SW-846 8260B	75274	0.000168	0.005		<0.005	<0.005	<0.005	NA	**0.124**	**0.168 J**	<0.005	<0.005	<0.005
Bromoform	SW-846 8260B	75252	0.00848	0.005		<0.005	<0.005	<0.005	NA	**0.171**	**0.297**	<0.005	**0.0009 J**	**0.00487 J**
Bromomethane	SW-846 8260B	74839	0.00852	0.005		<0.005	<0.005	<0.005	NA	<0.1	<0.25	<0.005	<0.005	<0.005
Carbon disulfide	SW-846 8260B	75150	1.04	0.005		<0.005	<0.005	<0.005	NA	<0.1	<0.25	<0.005	<0.005	<0.005
Carbon tetrachloride	SW-846 8260B	56235	0.005	0.005		<0.005	<0.005	<0.005	NA	<0.1	<0.25	<0.005	<0.005	<0.005
Chlorobenzene	SW-846 8260B	108907	0.1	0.005		<0.005	<0.005	<0.005	NA	<0.1	<0.25	<0.005	<0.005	<0.005
Chloroethane[1]	SW-846 8260B	75003	0.00364	0.005		<0.005	<0.005	<0.005	NA	<0.1	<0.25	<0.005	<0.005	<0.005
Chloroform[1]	SW-846 8260B	67663	0.000155	0.005		<0.005	<0.005	**0.00086 J**	NA	**11.2**	**12**	<0.005	**0.0141**	**0.0143**
Chloromethane[1]	SW-846 8260B	74873	0.00143	0.005		<0.005	<0.005	<0.005	NA	<0.1	<0.25	<0.005	<0.005	<0.005
Chloroprene	SW-846 8260B	126998	0.0143	0.005		<0.005	<0.005	<0.005	NA	<0.1	<0.25	<0.005	<0.005	<0.005
cis-1,3-Dichloropropene[1]	SW-846 8260B	10061015	0.0000842	0.005		<0.005	<0.005	<0.005	NA	<0.1	<0.25	<0.005	<0.005	<0.005
Cyanazine[1]	SW-846 8270	21725462	0.0000797	0.01		<0.01	<0.01	<0.01	NA	<0.01	<0.01	<0.01	<0.01	<0.01
Dibromochloromethane[1]	SW-846 8260B	124481	0.000126	0.005		<0.005	<0.005	<0.005	NA	**0.07 J**	**0.0555 J**	<0.005	<0.005	<0.005
Dibromomethane	SW-846 8260B	74953	0.0608	0.005		<0.005	<0.005	<0.005	NA	<0.1	<0.25	<0.005	<0.005	<0.005
Dichlorodifluoromethane	SW-846 8260B	75718	0.348	0.005		<0.005	<0.005	<0.005	NA	<0.1	<0.25	<0.005	<0.005	<0.005
Dinoseb	SW-846 8151	88857	0.007	0.002		<0.002	<0.01	<0.002	NA	<0.002	<0.01	<0.002	<0.002	<0.01
Ethyl methacrylate	SW-846 8260B	97632	0.548	0.01		<0.01	<0.01	<0.01	NA	<0.2	<0.5	<0.01	<0.01	<0.01
Ethylbenzene	SW-846 8260B	100414	0.7	0.005		<0.005	<0.005	<0.005	NA	<0.1	<0.25	<0.005	<0.005	<0.005
Iodomethane	SW-846 8260B	74884	NAV	0.005		<0.005	<0.005	<0.005	NA	<0.1	<0.25	<0.005	<0.005	<0.005
Isobutanol	SW-846 8260B	78831	1.83	0.25		<0.25	<0.25	<0.25	NA	<5	<12.5	<0.25	<0.25	<0.25
m&p-Xylene	SW-846 8260B	1330207	12.2	0.005		<0.005	<0.01	<0.005	NA	<0.1	<0.5	<0.005	<0.005	<0.01
Methacrylonitrile[1]	SW-846 8260B	126987	0.00104	0.1		<0.1	<0.1	<0.1	NA	<2	<5	<0.1	<0.1	<0.1
Methyl methacrylate	SW-846 8260B	80626	1.42	0.01		<0.01	<0.01	<0.01	NA	<0.2	<0.5	<0.01	<0.01	<0.01
Methylene chloride[3]	SW-846 8260B	75092	0.005	0.005		**0.0267 UB**	<0.005	<0.005	NA	**0.0396 UB**	**0.051 J**	**0.0222 UB**	<0.005	<0.005
o-Xylene	SW-846 8260B	95476	12.2	0.005		<0.005	<0.005	<0.005	NA	<0.1	<0.25	<0.005	<0.005	<0.005

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Table 10. Summary of Groundwater Analytical Data, Site Characterization Report, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Parameter	Analytical Method	CAS No.	Groundwater Tier 1 TRG (mg/L)	Reporting Limit (mg/L)	Sample ID: / Sample Date:	PZ-21A (020107) 2/1/2007	PZ-21A 3/24/2008	PZ-22A (020807) 2/8/2007	PZ-22A 3/26/2008	PZ-22B (020807) 2/8/2007	PZ-22B 3/24/2008	PZ-23A (020107) 2/1/2007	PZ-23B (020807) 2/8/2007	PZ-23B 3/24/2008
Pentachlorophenol[1]	SW-846 8270	87865	0.001	0.01		<0.01	<0.01	<0.01	NA	<0.01	<0.01	<0.01	<0.01	<0.01
Propionitrile	SW-846 8260B	107120	NAV	0.02		<0.02	<0.02	<0.02	NA	<0.4	<1	<0.02	<0.02	<0.02
Styrene	SW-846 8260B	100425	0.1	0.005		<0.005	<0.005	<0.005	NA	<0.1	<0.25	<0.005	<0.005	<0.005
Tetrachloroethene	SW-846 8260B	127184	0.005	0.005		<0.005	<0.005	<0.005	NA	<0.1	<0.25	<0.005	<0.005	<0.005
Toluene	SW-846 8260B	108883	1.0	0.005		<0.005	<0.005	<0.005	NA	<0.1	<0.25	<0.005	<0.005	<0.005
Toxaphene	SW-846 8081	8001352	0.003	0.002		<0.002	<0.002	<0.002	NA	<0.002	<0.002	<0.002	<0.002	<0.002
trans-1,2-Dichloroethene	SW-846 8260B	156605	0.1	0.005		<0.005	<0.005	<0.005	NA	<0.1	<0.25	<0.005	<0.005	<0.005
trans-1,3-Dichloropropene[1]	SW-846 8260B	10061026	0.0000842	0.005		<0.005	<0.005	<0.005	NA	<0.1	<0.25	<0.005	<0.005	<0.005
trans-1,4-Dichloro-2-butene[1][2]	SW-846 8260B	110576	0.00000135	0.005		<0.005	<0.005	<0.005	NA	<0.1	<0.25	<0.005	<0.005	<0.005
Trichloroethene	SW-846 8260B	79016	0.005	0.005		<0.005	<0.005	<0.005	NA	<0.1	<0.25	<0.005	<0.005	<0.005
Trichlorofluoromethane	SW-846 8260B	75694	1.29	0.005		<0.005	<0.005	<0.005	NA	<0.1	<0.25	<0.005	<0.005	<0.005
Vinyl acetate	SW-846 8260B	108054	0.412	0.01		<0.01	<0.01	<0.01	NA	<0.2	<0.5	<0.01	<0.01	<0.01
Vinyl chloride[1]	SW-846 8260B	75014	0.002	0.005		<0.005	<0.005	<0.005	NA	<0.1	<0.25	<0.005	<0.005	<0.005

All concentrations are in milligrams per liter (mg/L).

(1) When the TRG was less than the Reporting Limit (RL), the RL was used as the screening value. Values less than the RL are qualified with a "J" qualifier.

(2) The Tier 1 TRG for 1,4-dichloro-2-butene was used for trans-1,4-dichloro-2-butene.

(3) The MW-10C and PZ-20B samples were shipped with Quality Assurance/Quality Control (QA/QC) samples TB-03 and TB-02, respectively. Each methylene chloride sample result is less than ten times the methylene chloride concentration reported in the applicable QA/QC sample result.

B Detected in blank.

J Estimated value.

NA Not analyzed.

NAV Not available.

R Rejected.

TRG Target Remediation Goal.

UB Non-detect due to associated blank contamination.

* While the MDEQ Tier 1 TRG for arsenic is 0.05 mg/L, the EPA mandated maximum contaminant level for arsenic is 0.01 mg/L and was used as the screening value.

Shaded result indicates concentration above TRG (restricted).

Note: Sufficient sample volume was not available at SPUW (013107). Therefore, total and dissolved arsenic were not collected at SPUW (013107).

TP-PZ-01 through TP-PZ-07 were collected for all analyses on May 1, 2007. However, the laboratory only analyzed for volatile organic compounds and metals.

The samples were re-collected on May 30, 2007, for analysis of semivolatile organic compounds and pesticides.

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Table 10. Summary of Groundwater Analytical Data, Site Characterization Report, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Parameter	Analytical Method	CAS No.	Groundwater Tier 1 TRG (mg/L)	Reporting Limit (mg/L)	Sample ID:	PZ-24B (020107)	PZ-25B (020607)	PZ-25B	PZ-26A (020807)	PZ-26A	DUP-02 PZ-26A	PZ-26B (020807)	PZ-26B	RRUW (020707)	RRUW
					Sample Date:	2/1/2007	2/6/2007	3/24/2008	2/8/2007	3/24/2008	3/24/2008	2/8/2007	3/26/2008	2/7/2007	3/20/2008
1,1,1,2-Tetrachloroethane[1]	SW-846 8260B	630206	0.000406	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005
1,1,1-Trichloroethane	SW-846 8260B	71556	0.2	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005
1,1,2,2-Tetrachloroethane[1]	SW-846 8260B	79345	0.0000527	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005
1,1,2-Trichloroethane	SW-846 8260B	79005	0.005	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005
1,1-Dichloroethane	SW-846 8260B	75343	0.798	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005
1,1-Dichloroethene	SW-846 8260B	75354	0.007	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005
1,2,3-Trichloropropane[1]	SW-846 8260B	96184	0.00000623	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005
1,2,4-Trimethylbenzene	SW-846 8260B	95636	0.0123	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005
1,2-Dibromo-3-chloropropane[1]	SW-846 8260B	96128	0.0002	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005
1,2-Dibromoethane (EDB)[1]	SW-846 8260B	106934	0.00005	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005
1,2-Dichloroethane	SW-846 8260B	107062	0.005	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005
1,2-Dichloropropane	SW-846 8260B	78875	0.005	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005
1,3,5-Trimethylbenzene	SW-846 8260B	108678	0.0123	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005
1,4-Dioxane (p-Dioxane)	SW-846 8260B	123911	0.00609	0.25		<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	NA	<0.25	<0.25
2-Butanone (MEK)	SW-846 8260B	78933	1.91	0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01	<0.01
2-Hexanone	SW-846 8260B	591786	1.46	0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01	<0.01
4-Methyl-2-pentanone (MIBK)	SW-846 8260B	108101	0.139	0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01	<0.01
4-Nitrophenol	SW-846 8270	100027	0.292	0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01	<0.01
Acetone	SW-846 8260B	67641	0.608	0.01		**0.022 UB**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01	<0.01
Acetonitrile	SW-846 8260B	75058	0.125	0.1		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	NA	<0.1	<0.1
Acetophenone[1]	SW-846 8270	98862	0.0000416	0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01	<0.01
Acrolein	SW-846 8260B	107028	0.0416	0.02		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	NA	<0.02	<0.02
Acrylonitrile[1]	SW-846 8260B	107131	0.0000367	0.02		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	NA	<0.02	<0.02
Allyl chloride	SW-846 8260B	107051	NAV	0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01	<0.01
Arsenic*	SW-846 6010	7440382	0.05	0.01		**0.0216**	**0.0492**	**0.0012**	**0.0288**	**0.00095**	**0.00097**	**0.0497**	**0.0012**	**0.0341**	**0.0011**
Arsenic, Dissolved*	SW-846 6010	7440382	0.05	0.01		**0.0225**	**0.0357**	**0.0016**	**0.0405**	**0.00076**	<0.001	**0.0315**	**0.0014**	**0.0381**	**0.0013**
Atrazine[1]	SW-846 8270	1912249	0.003	0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01	<0.01
Benzene	SW-846 8260B	71432	0.005	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005
bis(2-Ethylhexyl)phthalate[1]	SW-846 8270	117817	0.006	0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01	<0.01
Bromodichloromethane[1]	SW-846 8260B	75274	0.000168	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005
Bromoform	SW-846 8260B	75252	0.00848	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005
Bromomethane	SW-846 8260B	74839	0.00852	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005
Carbon disulfide	SW-846 8260B	75150	1.04	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005
Carbon tetrachloride	SW-846 8260B	56235	0.005	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005
Chlorobenzene	SW-846 8260B	108907	0.1	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005
Chloroethane[1]	SW-846 8260B	75003	0.00364	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005
Chloroform[1]	SW-846 8260B	67663	0.000155	0.005		<0.005	**0.00089 J**	<0.005	<0.005	<0.005	<0.005	<0.005	NA	**0.00073 J**	**0.00055 J**
Chloromethane[1]	SW-846 8260B	74873	0.00143	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005
Chloroprene	SW-846 8260B	126998	0.0143	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005
cis-1,3-Dichloropropene[1]	SW-846 8260B	10061015	0.0000842	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005
Cyanazine[1]	SW-846 8270	21725462	0.0000797	0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01	<0.01
Dibromochloromethane[1]	SW-846 8260B	124481	0.000126	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005
Dibromomethane	SW-846 8260B	74953	0.0608	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005
Dichlorodifluoromethane	SW-846 8260B	75718	0.348	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005
Dinoseb	SW-846 8151	88857	0.007	0.002		<0.002	<0.002 J	<0.01	<0.002	<0.01	<0.01	<0.002	NA	**0.0577**	**0.0632**
Ethyl methacrylate	SW-846 8260B	97632	0.548	0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01	<0.01
Ethylbenzene	SW-846 8260B	100414	0.7	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005
Iodomethane	SW-846 8260B	74884	NAV	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005
Isobutanol	SW-846 8260B	78831	1.83	0.25		<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	NA	<0.25	<0.25
m&p-Xylene	SW-846 8260B	1330207	12.2	0.005		<0.005	<0.005	<0.01	<0.005	<0.01	<0.01	<0.005	NA	<0.005	<0.01
Methacrylonitrile[1]	SW-846 8260B	126987	0.00104	0.1		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	NA	<0.1	<0.1
Methyl methacrylate	SW-846 8260B	80626	1.42	0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01	<0.01
Methylene chloride[3]	SW-846 8260B	75092	0.005	0.005		**0.0238 UB**	**0.00242 UB**	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005
o-Xylene	SW-846 8260B	95476	12.2	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005

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Table 10. Summary of Groundwater Analytical Data, Site Characterization Report, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Parameter	Analytical Method	CAS No.	Groundwater Tier 1 TRG (mg/L)	Reporting Limit (mg/L)	Sample ID: / Sample Date:	PZ-24B (020107) 2/1/2007	PZ-25B (020607) 2/6/2007	PZ-25B 3/24/2008	PZ-26A (020807) 2/8/2007	PZ-26A 3/24/2008	DUP-02 PZ-26A 3/24/2008	PZ-26B (020807) 2/8/2007	PZ-26B 3/26/2008	RRUW (020707) 2/7/2007	RRUW 3/20/2008
Pentachlorophenol[1]	SW-846 8270	87865	0.001	0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	**0.0203**	**0.00389 J**
Propionitrile	SW-846 8260B	107120	NAV	0.02		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	NA	<0.02	<0.02
Styrene	SW-846 8260B	100425	0.1	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005
Tetrachloroethene	SW-846 8260B	127184	0.005	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005
Toluene	SW-846 8260B	108883	1.0	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005
Toxaphene	SW-846 8081	8001352	0.003	0.002		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	NA	<0.002	<0.002
trans-1,2-Dichloroethene	SW-846 8260B	156605	0.1	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005
trans-1,3-Dichloropropene[1]	SW-846 8260B	10061026	0.0000842	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005
trans-1,4-Dichloro-2-butene[1][2]	SW-846 8260B	110576	0.00000135	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005
Trichloroethene	SW-846 8260B	79016	0.005	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	**0.00256 J**	**0.00196 J**
Trichlorofluoromethane	SW-846 8260B	75694	1.29	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005
Vinyl acetate	SW-846 8260B	108054	0.412	0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01	<0.01
Vinyl chloride[1]	SW-846 8260B	75014	0.002	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005

All concentrations are in milligrams per liter (mg/L).

(1) When the TRG was less than the Reporting Limit (RL), the RL was used as the screening value. Values less than the RL are qualified with a "J" qualifier.

(2) The Tier 1 TRG for 1,4-dichloro-2-butene was used for trans-1,4-dichloro-2-butene.

(3) The MW-10C and PZ-20B samples were shipped with Quality Assurance/Quality Control (QA/QC) samples TB-03 and TB-02, respectively. Each methylene chloride sample result is less than ten times the methylene chloride concentration reported in the applicable QA/QC sample result.

B Detected in blank.

J Estimated value.

NA Not analyzed.

NAV Not available.

R Rejected.

TRG Target Remediation Goal.

UB Non-detect due to associated blank contamination.

* While the MDEQ Tier 1 TRG for arsenic is 0.05 mg/L, the EPA mandated maximum contaminant level for arsenic is 0.01 mg/L and was used as the screening value.

Shaded result indicates concentration above TRG (restricted).

Note: Sufficient sample volume was not available at SPUW (013107). Therefore, total and dissolved arsenic were not collected at SPUW (013107).

TP-PZ-01 through TP-PZ-07 were collected for all analyses on May 1, 2007. However, the laboratory only analyzed for volatile organic compounds and metals.

The samples were re-collected on May 30, 2007, for analysis of semivolatile organic compounds and pesticides.

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Table 10. Summary of Groundwater Analytical Data, Site Characterization Report, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Parameter	Analytical Method	CAS No.	Groundwater Tier 1 TRG (mg/L)	Reporting Limit (mg/L)	Sample ID:	SPUW (013107)	TP-PZ-01	TP-PZ-01	TP-PZ-02	TP-PZ-02	TP-PZ-03	TP-PZ-03	TP-PZ-04	TP-PZ-04	TP-PZ-05	TP-PZ-05	TP-PZ-06
					Sample Date:	1/31/2007	5/1/2007	5/30/2007	5/2/2007	5/30/2007	5/1/2007	5/30/2007	5/1/2007	5/30/2007	5/1/2007	5/30/2007	5/1/2007
1,1,1,2-Tetrachloroethane[1]	SW-846 8260B	630206	0.000406	0.005		<0.005	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005
1,1,1-Trichloroethane	SW-846 8260B	71556	0.2	0.005		<0.005	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005
1,1,2,2-Tetrachloroethane[1]	SW-846 8260B	79345	0.0000527	0.005		<0.005	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005
1,1,2-Trichloroethane	SW-846 8260B	79005	0.005	0.005		<0.005	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	**0.00732**
1,1-Dichloroethane	SW-846 8260B	75343	0.798	0.005		<0.005	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005
1,1-Dichloroethene	SW-846 8260B	75354	0.007	0.005		<0.005	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	**0.00089J**
1,2,3-Trichloropropane[1]	SW-846 8260B	96184	0.00000623	0.005		<0.005	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005
1,2,4-Trimethylbenzene	SW-846 8260B	95636	0.0123	0.005		<0.005	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005
1,2-Dibromo-3-chloropropane[1]	SW-846 8260B	96128	0.0002	0.005		<0.005	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005
1,2-Dibromoethane (EDB)[1]	SW-846 8260B	106934	0.00005	0.005		<0.005	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005
1,2-Dichloroethane	SW-846 8260B	107062	0.005	0.005		<0.005	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	**25.2**
1,2-Dichloropropane	SW-846 8260B	78875	0.005	0.005		<0.005	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005
1,3,5-Trimethylbenzene	SW-846 8260B	108678	0.0123	0.005		<0.005	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005
1,4-Dioxane (p-Dioxane)	SW-846 8260B	123911	0.00609	0.25		<0.25	<0.25	NA	<0.25	NA	<0.25	NA	<0.25	NA	<0.25	NA	<0.25
2-Butanone (MEK)	SW-846 8260B	78933	1.91	0.01		<0.01	<0.01	NA	<0.01	NA	<0.01	NA	<0.01	NA	**0.0697**	NA	<0.01
2-Hexanone	SW-846 8260B	591786	1.46	0.01		<0.01	<0.01	NA	<0.01	NA	<0.01	NA	<0.01	NA	<0.01	NA	<0.01
4-Methyl-2-pentanone (MIBK)	SW-846 8260B	108101	0.139	0.01		<0.01	<0.01	NA	<0.01	NA	<0.01	NA	<0.01	NA	<0.01	NA	<0.01
4-Nitrophenol	SW-846 8270	100027	0.292	0.01		<0.01	NA	<0.01	NA	<0.01	NA	<0.01	NA	<0.01	NA	<0.01	NA
Acetone	SW-846 8260B	67641	0.608	0.01		<0.01	<0.01	NA	<0.01	NA	<0.01	NA	**0.0335**	NA	**0.0234**	NA	**0.0344**
Acetonitrile	SW-846 8260B	75058	0.125	0.1		<0.1	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1
Acetophenone[1]	SW-846 8270	98862	0.0000416	0.01		**0.00382 J**	NA	<0.01	NA	<0.01	NA	<0.01	NA	<0.01	NA	<0.01	NA
Acrolein	SW-846 8260B	107028	0.0416	0.02		<0.02	<0.02	NA	<0.02	NA	<0.02	NA	<0.02	NA	<0.02	NA	<0.02
Acrylonitrile[1]	SW-846 8260B	107131	0.0000367	0.02		<0.02	<0.02	NA	<0.02	NA	<0.02	NA	<0.02	NA	<0.02	NA	<0.02
Allyl chloride	SW-846 8260B	107051	NAV	0.01		<0.01	<0.01	NA	<0.01	NA	<0.01	NA	<0.01	NA	<0.01	NA	<0.01
Arsenic*	SW-846 6010	7440382	0.05	0.01		NA	<0.01	NA	**0.045**	NA	<0.01	NA	**0.0465**	NA	**0.0596**	NA	<0.01
Arsenic, Dissolved*	SW-846 6010	7440382	0.05	0.01		NA	<0.01	NA	<0.01	NA	<0.01	NA	**0.00748**	NA	<0.01	NA	<0.01
Atrazine[1]	SW-846 8270	1912249	0.003	0.01		<0.01	NA	<0.01	NA	<0.01	NA	<0.01	NA	<0.01	NA	<0.01	NA
Benzene	SW-846 8260B	71432	0.005	0.005		<0.005	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	**0.00096**
bis(2-Ethylhexyl)phthalate[1]	SW-846 8270	117817	0.006	0.01		**0.0105**	NA	<0.01	NA	<0.01	NA	<0.01	NA	<0.01	NA	<0.01	NA
Bromodichloromethane[1]	SW-846 8260B	75274	0.000168	0.005		<0.005	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005
Bromoform	SW-846 8260B	75252	0.00848	0.005		<0.005	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005
Bromomethane	SW-846 8260B	74839	0.00852	0.005		<0.005	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005
Carbon disulfide	SW-846 8260B	75150	1.04	0.005		<0.005	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005
Carbon tetrachloride	SW-846 8260B	56235	0.005	0.005		<0.005	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	**0.00066**
Chlorobenzene	SW-846 8260B	108907	0.1	0.005		<0.005	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005
Chloroethane[1]	SW-846 8260B	75003	0.00364	0.005		<0.005	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005
Chloroform[1]	SW-846 8260B	67663	0.000155	0.005		<0.005	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	**0.0107**
Chloromethane[1]	SW-846 8260B	74873	0.00143	0.005		<0.005	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005
Chloroprene	SW-846 8260B	126998	0.0143	0.005		<0.005	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005
cis-1,3-Dichloropropene[1]	SW-846 8260B	10061015	0.0000842	0.005		<0.005	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005
Cyanazine[1]	SW-846 8270	21725462	0.0000797	0.01		<0.01	NA	<0.01	NA	<0.01	NA	<0.01	NA	<0.01	NA	<0.01	NA
Dibromochloromethane[1]	SW-846 8260B	124481	0.000126	0.005		<0.005	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005
Dibromomethane	SW-846 8260B	74953	0.0608	0.005		<0.005	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005
Dichlorodifluoromethane	SW-846 8260B	75718	0.348	0.005		<0.005	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005
Dinoseb	SW-846 8151	88857	0.007	0.002		<0.002	<0.002	NA	<0.002	NA	**0.00883**	NA	<0.002	NA	<0.002	NA	**14**
Ethyl methacrylate	SW-846 8260B	97632	0.548	0.01		<0.01	<0.01	NA	<0.01	NA	<0.01	NA	<0.01	NA	<0.01	NA	<0.01
Ethylbenzene	SW-846 8260B	100414	0.7	0.005		<0.005	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005
Iodomethane	SW-846 8260B	74884	NAV	0.005		<0.005	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005
Isobutanol	SW-846 8260B	78831	1.83	0.25		<0.25	<0.25	NA	<0.25	NA	<0.25	NA	<0.25	NA	<0.25	NA	<0.25
m&p-Xylene	SW-846 8260B	1330207	12.2	0.005		<0.005	<0.01	NA	<0.01	NA	<0.01	NA	<0.01	NA	<0.01	NA	<0.01
Methacrylonitrile[1]	SW-846 8260B	126987	0.00104	0.1		<0.1	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1
Methyl methacrylate	SW-846 8260B	80626	1.42	0.01		<0.01	<0.01	NA	<0.01	NA	<0.01	NA	<0.01	NA	<0.01	NA	<0.01
Methylene chloride[3]	SW-846 8260B	75092	0.005	0.005		<0.005	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	**0.00161J**
o-Xylene	SW-846 8260B	95476	12.2	0.005		<0.005	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005

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Table 10. Summary of Groundwater Analytical Data, Site Characterization Report, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Parameter	Analytical Method	CAS No.	Groundwater Tier 1 TRG (mg/L)	Reporting Limit (mg/L)	Sample ID: / Sample Date:	SPUW (013107) 1/31/2007	TP-PZ-01 5/1/2007	TP-PZ-01 5/30/2007	TP-PZ-02 5/2/2007	TP-PZ-02 5/30/2007	TP-PZ-03 5/1/2007	TP-PZ-03 5/30/2007	TP-PZ-04 5/1/2007	TP-PZ-04 5/30/2007	TP-PZ-05 5/1/2007	TP-PZ-05 5/30/2007	TP-PZ-06 5/1/2007
Pentachlorophenol[1]	SW-846 8270	87865	0.001	0.01		<0.01	NA	<0.01	NA	<0.01	NA	<0.01	NA	<0.01	NA	<0.01	NA
Propionitrile	SW-846 8260B	107120	NAV	0.02		<0.02	<0.02	NA	<0.02	NA	<0.02	NA	<0.02	NA	<0.02	NA	<0.02
Styrene	SW-846 8260B	100425	0.1	0.005		<0.005	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005
Tetrachloroethene	SW-846 8260B	127184	0.005	0.005		<0.005	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	**0.0018J**
Toluene	SW-846 8260B	108883	1.0	0.005		<0.005	**0.00182 UB**	NA	<0.005	NA	**0.00186 UB**	NA	<0.005	NA	**0.00127 UB**	NA	<0.005
Toxaphene	SW-846 8081	8001352	0.003	0.002		<0.02	<0.002	NA	<0.002	NA	<0.002	NA	<0.002	NA	<0.002	NA	<0.2
trans-1,2-Dichloroethene	SW-846 8260B	156605	0.1	0.005		<0.005	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	**0.00466J**
trans-1,3-Dichloropropene[1]	SW-846 8260B	10061026	0.0000842	0.005		<0.005	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005
trans-1,4-Dichloro-2-butene[1][2]	SW-846 8260B	110576	0.00000135	0.005		<0.005	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005
Trichloroethene	SW-846 8260B	79016	0.005	0.005		<0.005	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	**0.0353**
Trichlorofluoromethane	SW-846 8260B	75694	1.29	0.005		<0.005	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005
Vinyl acetate	SW-846 8260B	108054	0.412	0.01		<0.01	<0.01	NA	<0.01	NA	<0.01	NA	<0.01	NA	<0.01	NA	<0.01
Vinyl chloride[1]	SW-846 8260B	75014	0.002	0.005		<0.005	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	NA	**0.00387J**

All concentrations are in milligrams per liter (mg/L).

(1) When the TRG was less than the Reporting Limit (RL), the RL was used as the screening value. Values less than the RL are qualified with a "J" qualifier.

(2) The Tier 1 TRG for 1,4-dichloro-2-butene was used for trans-1,4-dichloro-2-butene.

(3) The MW-10C and PZ-20B samples were shipped with Quality Assurance/Quality Control (QA/QC) samples TB-03 and TB-02, respectively. Each methylene chloride sample result is less than ten times the methylene chloride concentration reported in the applicable QA/QC sample result.

B Detected in blank.

J Estimated value.

NA Not analyzed.

NAV Not available.

R Rejected.

TRG Target Remediation Goal.

UB Non-detect due to associated blank contamination.

* While the MDEQ Tier 1 TRG for arsenic is 0.05 mg/L, the EPA mandated maximum contaminant level for arsenic is 0.01 mg/L and was used as the screening value.

Shaded result indicates concentration above TRG (restricted).

Note: Sufficient sample volume was not available at SPUW (013107). Therefore, total and dissolved arsenic were not collected at SPUW (013107).

TP-PZ-01 through TP-PZ-07 were collected for all analyses on May 1, 2007. However, the laboratory only analyzed for volatile organic compounds and metals.

The samples were re-collected on May 30, 2007, for analysis of semivolatile organic compounds and pesticides.

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Table 10. Summary of Groundwater Analytical Data, Site Characterization Report, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Parameter	Analytical Method	CAS No.	Groundwater Tier 1 TRG (mg/L)	Reporting Limit (mg/L)	Sample ID: / Sample Date:	TP-PZ-06 5/30/2007	TP-PZ-07 5/1/2007	TP-PZ-07 5/30/2007
1,1,1,2-Tetrachloroethane(1)	SW-846 8260B	630206	0.000406	0.005		NA	<0.005	NA
1,1,1-Trichloroethane	SW-846 8260B	71556	0.2	0.005		NA	<0.005	NA
1,1,2,2-Tetrachloroethane(1)	SW-846 8260B	79345	0.0000527	0.005		NA	<0.005	NA
1,1,2-Trichloroethane	SW-846 8260B	79005	0.005	0.005		NA	<0.005	NA
1,1-Dichloroethane	SW-846 8260B	75343	0.798	0.005		NA	<0.005	NA
1,1-Dichloroethene	SW-846 8260B	75354	0.007	0.005		NA	<0.005	NA
1,2,3-Trichloropropane(1)	SW-846 8260B	96184	0.00000623	0.005		NA	<0.005	NA
1,2,4-Trimethylbenzene	SW-846 8260B	95636	0.0123	0.005		NA	<0.005	NA
1,2-Dibromo-3-chloropropane(1)	SW-846 8260B	96128	0.0002	0.005		NA	<0.005	NA
1,2-Dibromoethane (EDB)(1)	SW-846 8260B	106934	0.00005	0.005		NA	<0.005	NA
1,2-Dichloroethane	SW-846 8260B	107062	0.005	0.005		NA	<0.005	NA
1,2-Dichloropropane	SW-846 8260B	78875	0.005	0.005		NA	<0.005	NA
1,3,5-Trimethylbenzene	SW-846 8260B	108678	0.0123	0.005		NA	<0.005	NA
1,4-Dioxane (p-Dioxane)	SW-846 8260B	123911	0.00609	0.25		NA	<0.25	NA
2-Butanone (MEK)	SW-846 8260B	78933	1.91	0.01		NA	<0.01	NA
2-Hexanone	SW-846 8260B	591786	1.46	0.01		NA	<0.01	NA
4-Methyl-2-pentanone (MIBK)	SW-846 8260B	108101	0.139	0.01		NA	<0.01	NA
4-Nitrophenol	SW-846 8270	100027	0.292	0.01		<0.01	NA	<0.01
Acetone	SW-846 8260B	67641	0.608	0.01		NA	<0.01	NA
Acetonitrile	SW-846 8260B	75058	0.125	0.1		NA	<0.1	NA
Acetophenone(1)	SW-846 8270	98862	0.0000416	0.01		<0.01	NA	<0.01
Acrolein	SW-846 8260B	107028	0.0416	0.02		NA	<0.02	NA
Acrylonitrile(1)	SW-846 8260B	107131	0.0000367	0.02		NA	<0.02	NA
Allyl chloride	SW-846 8260B	107051	NAV	0.01		NA	<0.01	NA
Arsenic*	SW-846 6010	7440382	0.05	0.01		NA	**0.0529**	NA
Arsenic, Dissolved*	SW-846 6010	7440382	0.05	0.01		NA	<0.01	NA
Atrazine(1)	SW-846 8270	1912249	0.003	0.01		**0.223**	NA	<0.01
Benzene	SW-846 8260B	71432	0.005	0.005		NA	<0.005	NA
bis(2-Ethylhexyl)phthalate(1)	SW-846 8270	117817	0.006	0.01		<0.01	NA	<0.01
Bromodichloromethane(1)	SW-846 8260B	75274	0.000168	0.005		NA	<0.005	NA
Bromoform	SW-846 8260B	75252	0.00848	0.005		NA	<0.005	NA
Bromomethane	SW-846 8260B	74839	0.00852	0.005		NA	<0.005	NA
Carbon disulfide	SW-846 8260B	75150	1.04	0.005		NA	<0.005	NA
Carbon tetrachloride	SW-846 8260B	56235	0.005	0.005		NA	<0.005	NA
Chlorobenzene	SW-846 8260B	108907	0.1	0.005		NA	<0.005	NA
Chloroethane(1)	SW-846 8260B	75003	0.00364	0.005		NA	<0.005	NA
Chloroform(1)	SW-846 8260B	67663	0.000155	0.005		NA	<0.005	NA
Chloromethane(1)	SW-846 8260B	74873	0.00143	0.005		NA	<0.005	NA
Chloroprene	SW-846 8260B	126998	0.0143	0.005		NA	<0.005	NA
cis-1,3-Dichloropropene(1)	SW-846 8260B	10061015	0.0000842	0.005		NA	<0.005	NA
Cyanazine(1)	SW-846 8270	21725462	0.0000797	0.01		<0.01	NA	<0.01
Dibromochloromethane(1)	SW-846 8260B	124481	0.000126	0.005		NA	<0.005	NA
Dibromomethane	SW-846 8260B	74953	0.0608	0.005		NA	<0.005	NA
Dichlorodifluoromethane	SW-846 8260B	75718	0.348	0.005		NA	<0.005	NA
Dinoseb	SW-846 8151	88857	0.007	0.002		NA	<0.002	NA
Ethyl methacrylate	SW-846 8260B	97632	0.548	0.01		NA	<0.01	NA
Ethylbenzene	SW-846 8260B	100414	0.7	0.005		NA	<0.005	NA
Iodomethane	SW-846 8260B	74884	NAV	0.005		NA	<0.005	NA
Isobutanol	SW-846 8260B	78831	1.83	0.25		NA	<0.25	NA
m&p-Xylene	SW-846 8260B	1330207	12.2	0.005		NA	<0.01	NA
Methacrylonitrile(1)	SW-846 8260B	126987	0.00104	0.1		NA	<0.1	NA
Methyl methacrylate	SW-846 8260B	80626	1.42	0.01		NA	<0.01	NA
Methylene chloride(3)	SW-846 8260B	75092	0.005	0.005		NA	<0.005	NA
o-Xylene	SW-846 8260B	95476	12.2	0.005		NA	<0.005	NA

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Table 10. Summary of Groundwater Analytical Data, Site Characterization Report, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Parameter	Analytical Method	CAS No.	Groundwater Tier 1 TRG (mg/L)	Reporting Limit (mg/L)	Sample ID: / Sample Date:	TP-PZ-06 5/30/2007	TP-PZ-07 5/1/2007	TP-PZ-07 5/30/2007
Pentachlorophenol[1]	SW-846 8270	87865	0.001	0.01		<0.01	NA	<0.01
Propionitrile	SW-846 8260B	107120	NAV	0.02		NA	<0.02	NA
Styrene	SW-846 8260B	100425	0.1	0.005		NA	<0.005	NA
Tetrachloroethene	SW-846 8260B	127184	0.005	0.005		NA	<0.005	NA
Toluene	SW-846 8260B	108883	1.0	0.005		NA	<0.005	NA
Toxaphene	SW-846 8081	8001352	0.003	0.002		NA	<0.002	NA
trans-1,2-Dichloroethene	SW-846 8260B	156605	0.1	0.005		NA	<0.005	NA
trans-1,3-Dichloropropene[1]	SW-846 8260B	10061026	0.0000842	0.005		NA	<0.005	NA
trans-1,4-Dichloro-2-butene[1][2]	SW-846 8260B	110576	0.00000135	0.005		NA	<0.005	NA
Trichloroethene	SW-846 8260B	79016	0.005	0.005		NA	<0.005	NA
Trichlorofluoromethane	SW-846 8260B	75694	1.29	0.005		NA	<0.005	NA
Vinyl acetate	SW-846 8260B	108054	0.412	0.01		NA	<0.01	NA
Vinyl chloride[1]	SW-846 8260B	75014	0.002	0.005		NA	<0.005	NA

All concentrations are in milligrams per liter (mg/L).

(1) When the TRG was less than the Reporting Limit (RL), the RL was used as the screening value. Values less than the RL are qualified with a "J" qualifier.

(2) The Tier 1 TRG for 1,4-dichloro-2-butene was used for trans-1,4-dichloro-2-butene.

(3) The MW-10C and PZ-20B samples were shipped with Quality Assurance/Quality Control (QA/QC) samples TB-03 and TB-02, respectively. Each methylene chloride sample result is less than ten times the methylene chloride concentration reported in the applicable QA/QC sample result.

B Detected in blank.

J Estimated value.

NA Not analyzed.

NAV Not available.

R Rejected.

TRG Target Remediation Goal.

UB Non-detect due to associated blank contamination.

* While the MDEQ Tier 1 TRG for arsenic is 0.05 mg/L, the EPA mandated maximum contaminant level for arsenic is 0.01 mg/L and was used as the screening value.

Shaded result indicates concentration above TRG (restricted).

Note: Sufficient sample volume was not available at SPUW (013107). Therefore, total and dissolved arsenic were not collected at SPUW (013107).

TP-PZ-01 through TP-PZ-07 were collected for all analyses on May 1, 2007. However, the laboratory only analyzed for volatile organic compounds and metals.

The samples were re-collected on May 30, 2007, for analysis of semivolatile organic compounds and pesticides.

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Table 11. Summary of Groundwater Quality Assurance/Quality Control (QA/QC) Analytical Data, Site Characterization Report, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Parameter	Sample ID: / Sample Date:	FB-01 (013107) 1/31/2007	FB-02 (020807) 2/8/2007	FB-01 3/19/2008	FB-02 3/25/2008	RB01 (020707) 2/7/2007	RB-02 (020807) 2/8/2007	RB-01 3/19/2008	RINSATE-02 3/25/2008	TB-01 (013007) 1/30/2007
1,1,1,2-Tetrachloroethane		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,1-Trichloroethane		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,2,2-Tetrachloroethane		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,2-Trichloroethane		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1-Dichloroethane		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1-Dichloroethene		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2,3-Trichloropropane		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2,4-Trimethylbenzene		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dibromo-3-chloropropane		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dibromoethane (EDB)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichloroethane		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichloropropane		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,3,5-Trimethylbenzene		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,4-Dioxane (p-Dioxane)		<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
2-Butanone (MEK)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Hexanone		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
4-Methyl-2-pentanone (MIBK)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
4-Nitrophenol		NA	NA	NA	NA	<0.01	<0.01	<0.01	<0.01	NA
Acetone		<0.01	<0.01	<0.01	<0.01	**0.00985 J**	<0.01	<0.01	<0.01	<0.01
Acetonitrile		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acetophenone		NA	NA	NA	NA	<0.01	<0.01	<0.01	<0.01	NA
Acrolein		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Acrylonitrile		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Allyl chloride		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Arsenic		NA	NA	NA	NA	<0.01	<0.01	<0.0020	<0.0020	NA
Arsenic, Dissolved		NA	NA	NA	NA	<0.01	<0.01	<0.0020	<0.0020	NA
Atrazine		NA	NA	NA	NA	<0.01	<0.01	<0.01	<0.01	NA
Benzene		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
bis(2-Ethylhexyl)phthalate		NA	NA	NA	NA	<0.01	**0.0149**	<0.01	<0.01	NA
Bromodichloromethane		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bromoform		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bromomethane		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Carbon disulfide		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Carbon tetrachloride		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chlorobenzene		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroethane		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroform		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloromethane		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroprene		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
cis-1,3-Dichloropropene		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cyanazine		NA	NA	NA	NA	<0.01	<0.01	<0.01	<0.01	NA
Dibromochloromethane		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

ARCADIS

Table 11. Summary of Groundwater Quality Assurance/Quality Control (QA/QC) Analytical Data, Site Characterization Report, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Parameter	Sample ID: / Sample Date:	FB-01 (013107) 1/31/2007	FB-02 (020807) 2/8/2007	FB-01 3/19/2008	FB-02 3/25/2008	RB01 (020707) 2/7/2007	RB-02 (020807) 2/8/2007	RB-01 3/19/2008	RINSATE-02 3/25/2008	TB-01 (013007) 1/30/2007
Dibromomethane		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dichlorodifluoromethane		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dinoseb		NA	NA	NA	NA	<0.002	<0.02 J	<0.01	<0.01	NA
Ethyl methacrylate		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Ethylbenzene		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Iodomethane		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Isobutanol		<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
m&p-Xylene		<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.01	<0.01	<0.005
Methacrylonitrile		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methyl methacrylate		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Methylene chloride		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.00179 J**
o-Xylene		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Pentachlorophenol		NA	NA	NA	NA	<0.01	<0.01	<0.01	<0.01	NA
Propionitrile		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Styrene		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Tetrachloroethene		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toxaphene		NA	NA	NA	NA	<0.002	<0.002	<0.002	<0.002	NA
trans-1,2-Dichloroethene		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
trans-1,3-Dichloropropene		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
trans-1,4-Dichloro-2-butene		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloroethene		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichlorofluoromethane		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Vinyl acetate		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Vinyl chloride		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

All concentrations are in milligrams per liter (mg/L).

FB Field blank.
J Estimated value.
NA Not analyzed.
RB Rinsate blank.
TB Trip blank.

ARCADIS

Table 11. Summary of Groundwater Quality Assurance/Quality Control (QA/QC) Analytical Data, Site Characterization Report, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Parameter	Sample ID: / Sample Date:	TB-02 (013107) 1/31/2007	TB-03 2/1/2007	TB (020607) 2/6/2007	TB-05 (020807) 2/8/2007	TB-06 (021207) 2/12/2007	TB050207 5/1/2007	TB050407 5/4/2007	TB-01 3/18/2008	TB-02 3/20/2008	TB-03 3/24/2008
1,1,1,2-Tetrachloroethane		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,1-Trichloroethane		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,2,2-Tetrachloroethane		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,2-Trichloroethane		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1-Dichloroethane		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1-Dichloroethene		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2,3-Trichloropropane		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2,4-Trimethylbenzene		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dibromo-3-chloropropane		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dibromoethane (EDB)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichloroethane		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichloropropane		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,3,5-Trimethylbenzene		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,4-Dioxane (p-Dioxane)		<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
2-Butanone (MEK)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Hexanone		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
4-Methyl-2-pentanone (MIBK)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
4-Nitrophenol		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acetonitrile		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acetophenone		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrolein		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Acrylonitrile		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Allyl chloride		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Arsenic		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic, Dissolved		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
bis(2-Ethylhexyl)phthalate		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bromoform		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bromomethane		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Carbon disulfide		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Carbon tetrachloride		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chlorobenzene		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroethane		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroform		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloromethane		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroprene		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
cis-1,3-Dichloropropene		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cyanazine		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

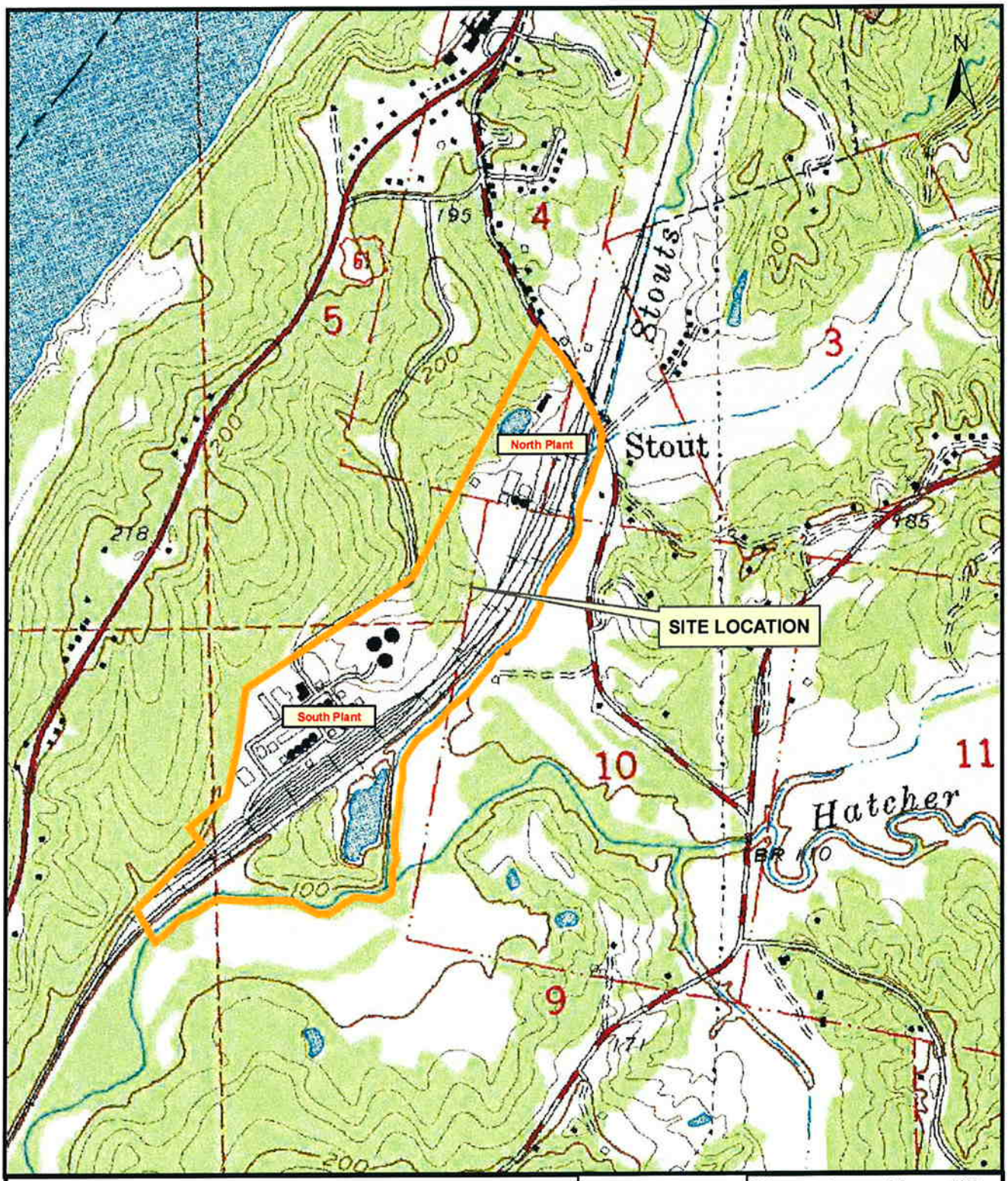
ARCADIS

Table 11. Summary of Groundwater Quality Assurance/Quality Control (QA/QC) Analytical Data, Site Characterization Report, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Parameter	Sample ID: / Sample Date:	TB-02 (013107) 1/31/2007	TB-03 2/1/2007	TB (020607) 2/6/2007	TB-05 (020807) 2/8/2007	TB-06 (021207) 2/12/2007	TB050207 5/1/2007	TB050407 5/4/2007	TB-01 3/18/2008	TB-02 3/20/2008	TB-03 3/24/2008
Dibromomethane		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dichlorodifluoromethane		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dinoseb		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethyl methacrylate		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Ethylbenzene		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Iodomethane		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Isobutanol		<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
m&p-Xylene		<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01
Methacrylonitrile		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methyl methacrylate		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Methylene chloride		**0.00128 J**	**0.00281 J**	**0.0034 J**	**0.00447 J**	<0.005	<0.005	<0.005	<0.005	**0.00151 J**	**0.00185 J**
o-Xylene		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Pentachlorophenol		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Propionitrile		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Styrene		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Tetrachloroethene		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene		<0.005	<0.005	<0.005	<0.005	<0.005	**0.00159J**	<0.005	<0.005	<0.005	<0.005
Toxaphene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
trans-1,3-Dichloropropene		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
trans-1,4-Dichloro-2-butene		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloroethene		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichlorofluoromethane		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Vinyl acetate		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Vinyl chloride		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

All concentrations are in milligrams per liter (mg/L).

FB Field blank.
J Estimated value.
NA Not analyzed.
RB Rinsate blank.
TB Trip blank.



Former Plant Site

Note: Approximate Property Boundary

ARCADIS
10352 Plaza Americana Drive
Baton Rouge, Louisiana 70816
Tel: 225.292.1004 Fax: 225.218.9677

REFERENCE:

USGS, Vicksburg West Quadrangle, Mississippi
7.5 Minute Series (Topographic)

SITE LOCATION MAP

FORMER VICKSBURG
CHEMICAL COMPANY

VICKSBURG, MISSISSIPPI

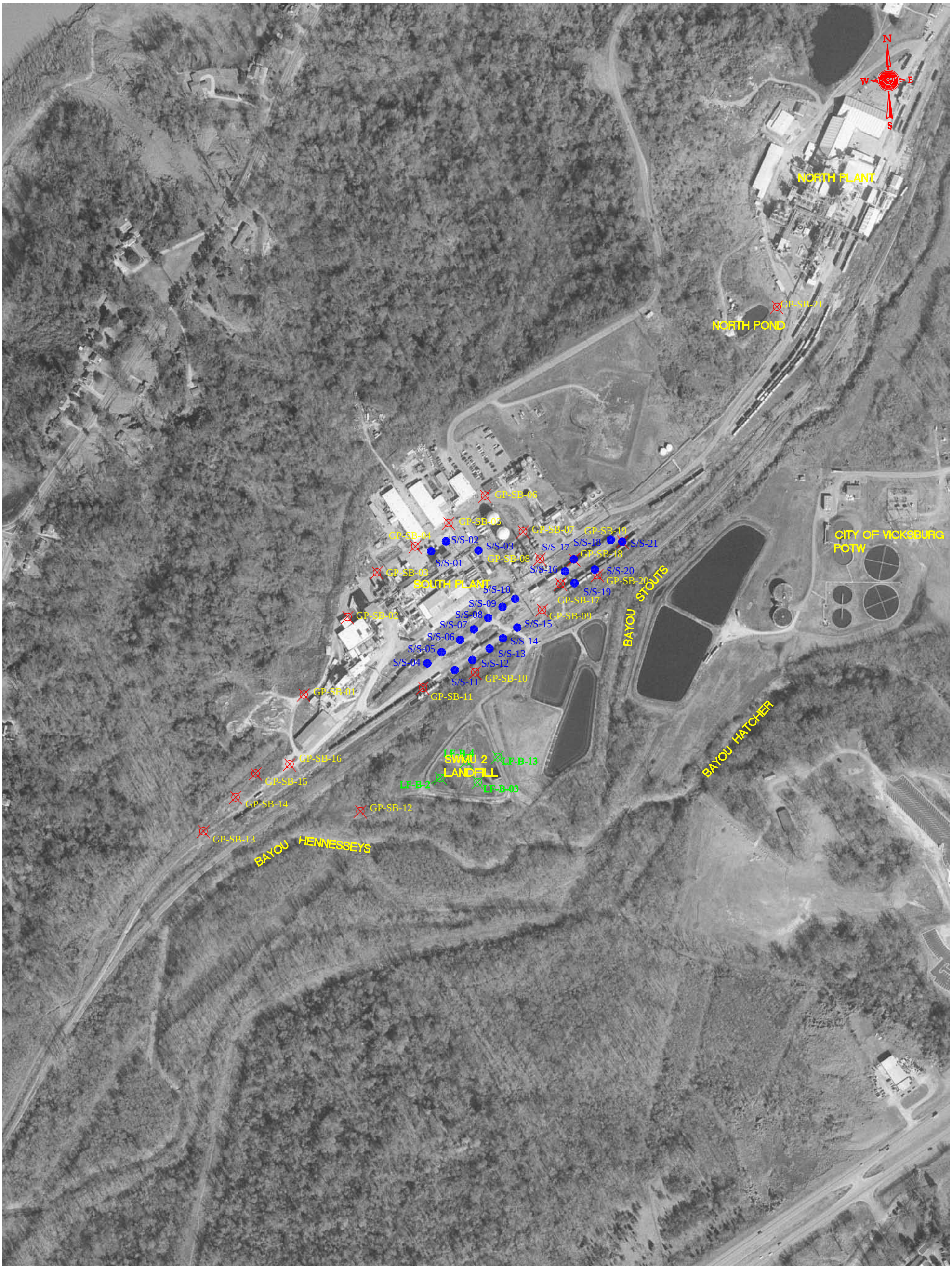
500 0 500 1,000 Feet

Project Manager: JE	Completed By: JC
Task Manager: CD	Date: 07/09/2007
Project No.: LA002656.0001	Figure No.: 1

U:\projects\Vicksburg\LA002656.0001.00002\plotfiles\Vicksburg_SiteMap.pdf

User Name : smen

Path\Name : G:\APROJECT\Mississippi Bluffs\LA002656.0001\Figures\SITE CHARACTERIZATION REPORT\2656-01-18-02.dwg



LEGEND

GP-SB-14	SOIL BORING LOCATION AND DESIGNATION
LF-B-2	SWMU2 LANDFILL SAMPLE LOCATION AND DESIGNATION
S/S-01	STABILIZATION SAMPLE LOCATION AND DESIGNATION

0 200' 400' 800'

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DRAWN BY: D. EKINIA	CHECKED: CAD
PROJECT MANAGER: DRE	DEPARTMENT MANAGER: DRE
DATE: 03-30-07	TASK/PHASE NUMBER: 0018

ARCADIS
10352 PLAZA AMERICANA DRIVE
BATON ROUGE, LA 70816
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SOIL SAMPLING LOCATIONS

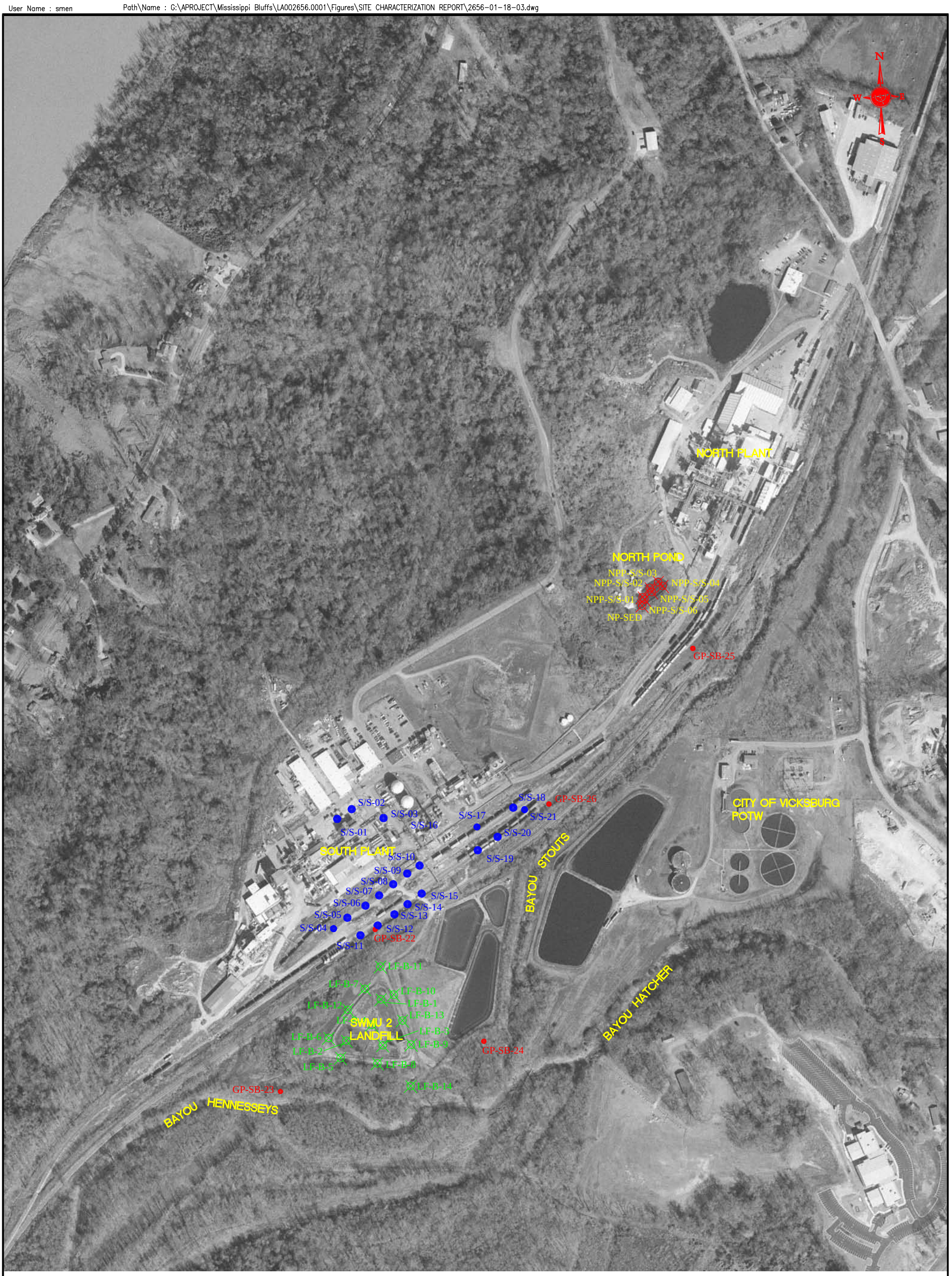
FORMER VICKSBURG CHEMICAL COMPANY SITE

PROJECT NUMBER: LA002656.0001

DRAWING NUMBER: 2

User Name : smen

Path\Name : G:\APROJECT\Mississippi Bluffs\LA002656.0001\Figures\SITE CHARACTERIZATION REPORT\2656-01-18-03.dwg



LEGEND

NPP-S/S-01	SOLIDIFICATION SAMPLE LOCATION AND DESIGNATION (NP-SED LOCATION WAS NOT SURVEYED.)
S/S-01	STABILIZATION SAMPLE LOCATION AND DESIGNATION
LF-B-1	SWMU2 LANDFILL SAMPLE LOCATION AND DESIGNATION
GP-SB-24	GEOPROBE BORING TO LOCATE BYRAM MARL

0 200' 400' 800'

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DRAWN BY: S. MEN	CHECKED: CAD
PROJECT MANAGER: DRE	DEPARTMENT MANAGER: DRE
DATE: 5-17-07	TASK/PHASE NUMBER: 0018

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SOLIDIFICATION/STABILIZATION, BYRAM MARL, AND SWMU 2 LANDFILL GEOTECHNICAL SAMPLING LOCATIONS

FORMER VICKSBURG CHEMICAL COMPANY SITE

PROJECT NUMBER: LA002656.0001

DRAWING NUMBER: 3

User Name : smen

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LEGEND

PROPOSED PLANT SOIL CAP BOUNDARY (AREA DELINEATED)

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DRAWN BY: D. EKINIA	CHECKED: CAD
PROJECT MANAGER: DRE	DEPARTMENT MANAGER: DRE
DATE: 05-16-07	TASK/PHASE NUMBER: 0018

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PROPOSED CAP LIMITS

FORMER VICKSBURG CHEMICAL COMPANY SITE

PROJECT NUMBER: LA002656.0001

DRAWING NUMBER: 4

User Name : smen

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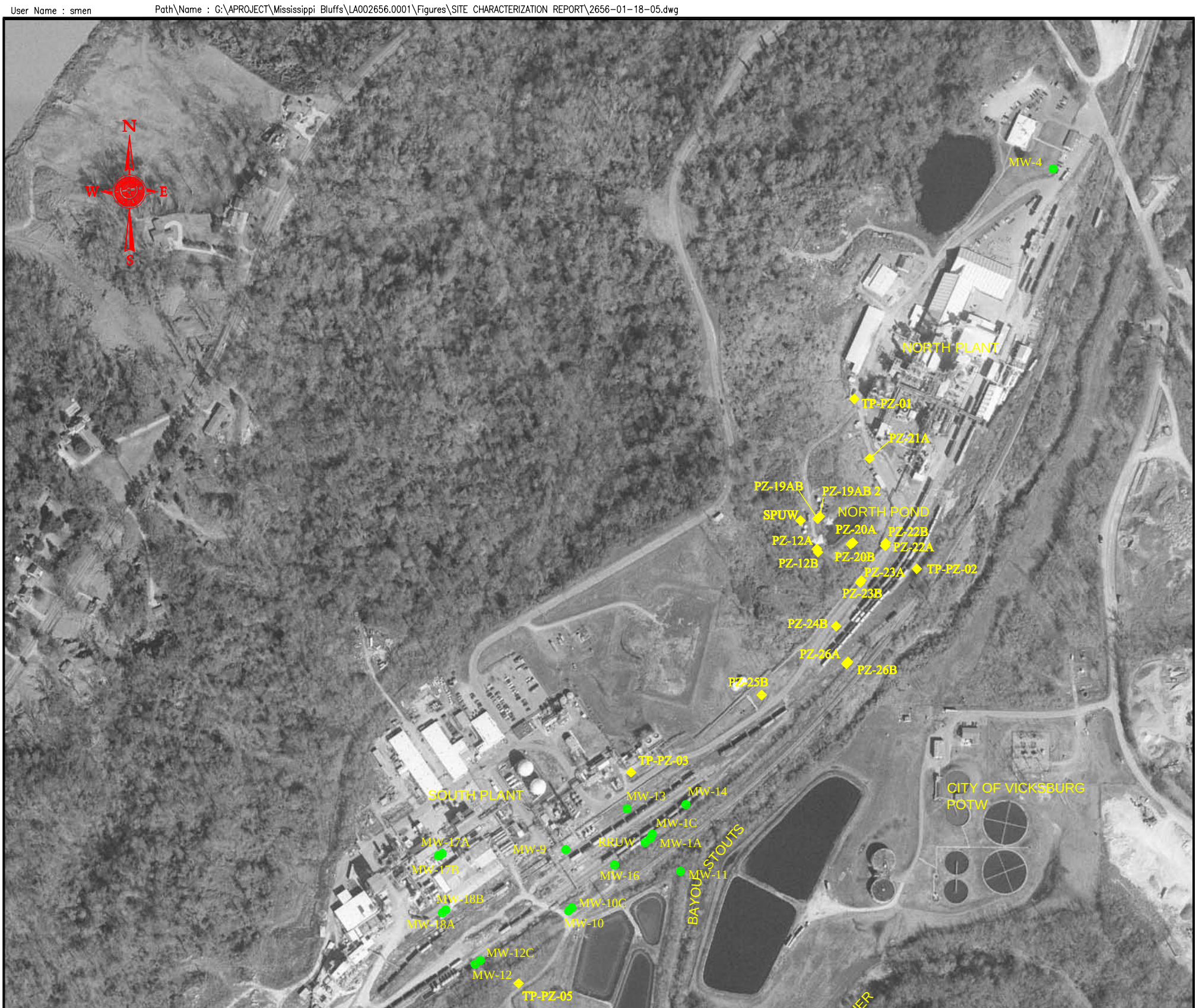

LEGEND

MW-14 MONITOR WELL LOCATION & DESIGNATION

TP-PZ-05 PIEZOMETER LOCATION & DESIGNATION

0 200' 400' 800'

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PROJECT MANAGER: DRE	DEPARTMENT MANAGER: DRE
DATE: 3-21-07	TASK/PHASE NUMBER: 0018

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MONITOR WELL AND TEMPORARY PIEZOMETER LOCATIONS

FORMER VICKSBURG CHEMICAL COMPANY SITE

PROJECT NUMBER: LA002656.0001

DRAWING NUMBER: 5

User Name : smen

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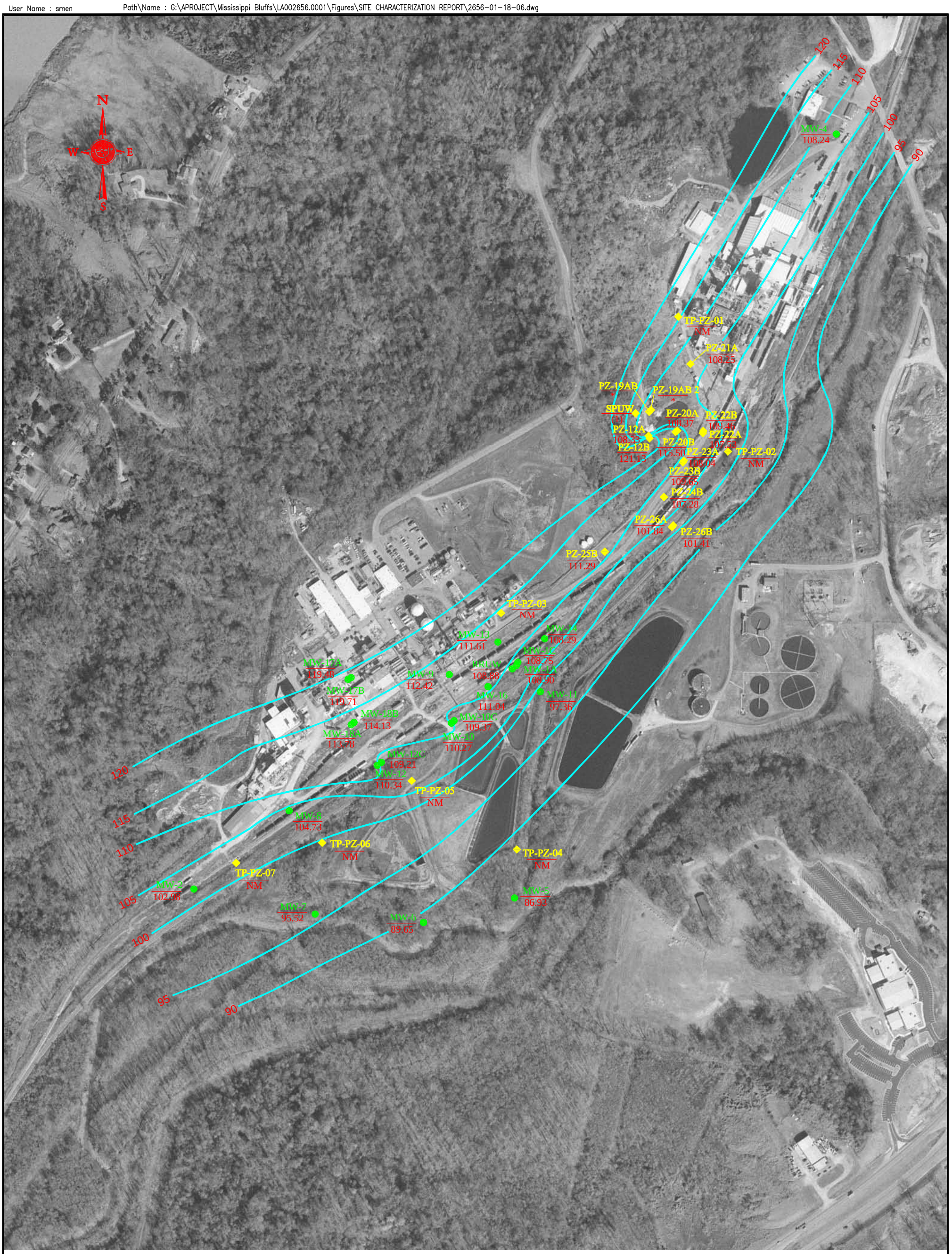

LEGEND

MW-14	MONITOR WELL LOCATION & DESIGNATION
TP-PZ-05	PIEZOMETER LOCATION & DESIGNATION
101.41	POTENTIOMETRIC ELEVATION
NM	NOT MEASURED
*	DESTROYED
(1)	POOR RECHARGE – NOT USED
90	POTENTIOMETRIC SURFACE CONTOUR

0 200' 400' 800'

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DRAWN BY: SMEN	CHECKED: CAD
PROJECT MANAGER: DRE	DEPARTMENT MANAGER: DRE
DATE: 1-22-08	TASK/PHASE NUMBER: 0018

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POTENTIOMETRIC SURFACE MAP - JANUARY 29, 2007

FORMER VICKSBURG CHEMICAL COMPANY SITE

PROJECT NUMBER: LA002656.0001

DRAWING NUMBER: 6

User Name : smen

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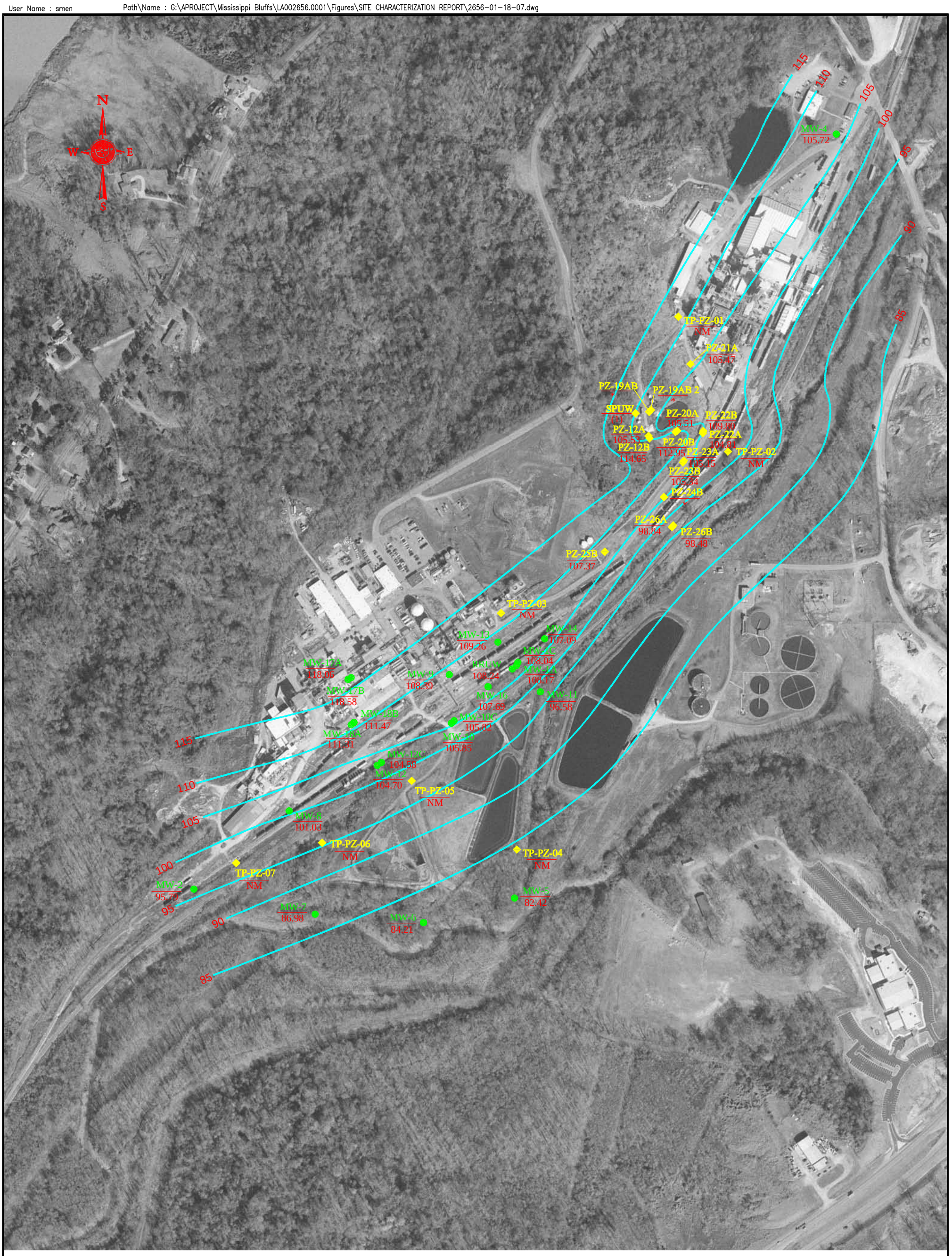

LEGEND

MW-14	MONITOR WELL LOCATION & DESIGNATION
TP-PZ-05	PIEZOMETER LOCATION & DESIGNATION
96.58	POTENTIOMETRIC ELEVATION
NM	NOT MEASURED
*	DESTROYED
(1)	POOR RECHARGE – NOT USED
90	POTENTIOMETRIC SURFACE CONTOUR

0 200' 400' 800'

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PROJECT MANAGER: DRE	DEPARTMENT MANAGER: DRE
DATE: 1-22-08	TASK/PHASE NUMBER: 0018

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POTENTIOMETRIC SURFACE MAP - OCTOBER 19, 2007

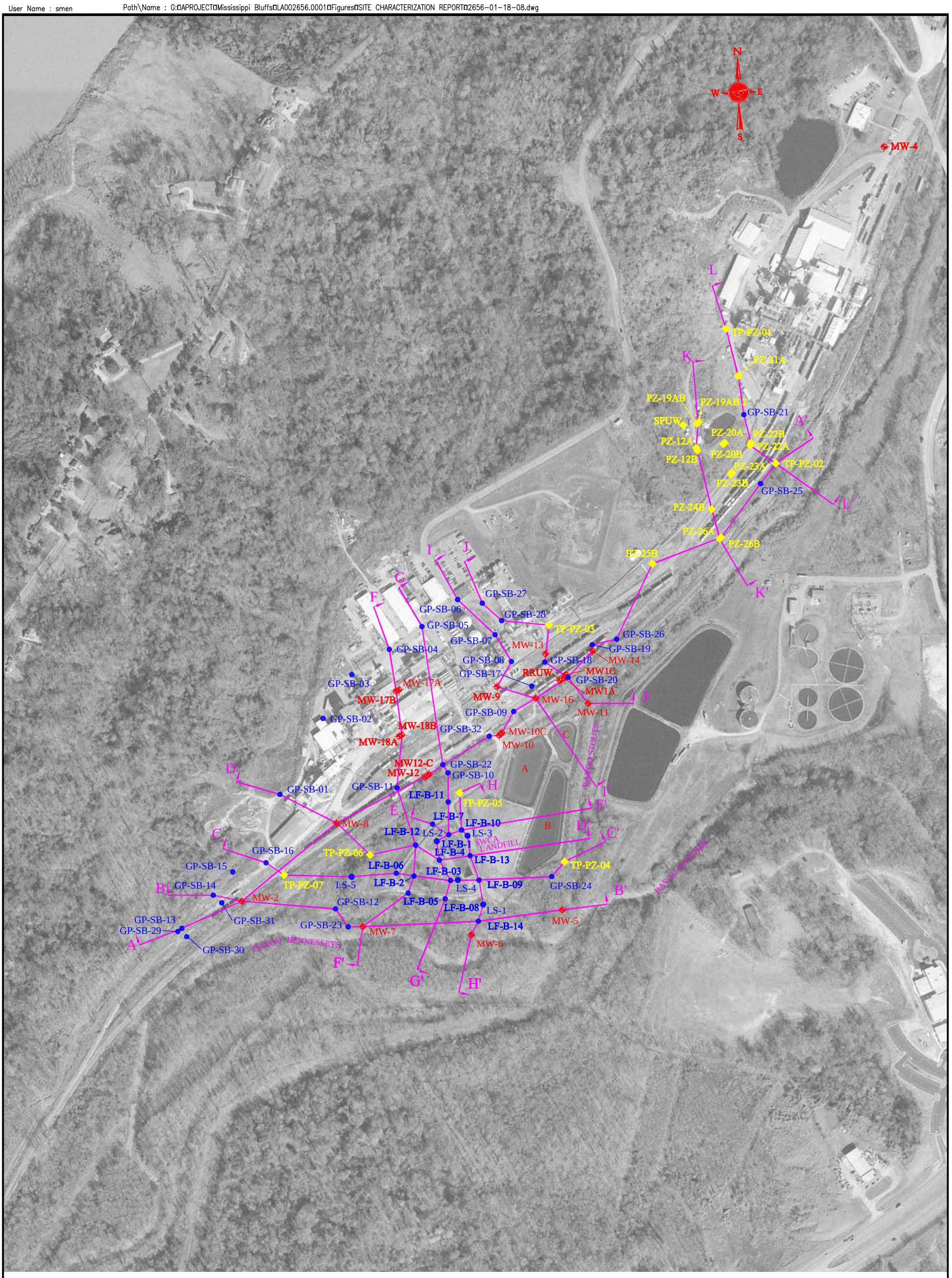
FORMER VICKSBURG CHEMICAL COMPANY SITE

PROJECT NUMBER: LA002656.0001

DRAWING NUMBER: 7

User Name : smen

Path\Name : G:□APROJECT□Mississippi Bluffs□LA002656.0001□Figures□SITE CHARACTERIZATION REPORT□2656-01-18-08.dwg



LEGEND

- LF-B-13 — SOIL BORING LOCATION AND DESIGNATION
- MW-6 — MONITOR WELL LOCATION AND DESIGNATION
- TP-PZ-05 — PIEZOMETER LOCATION AND DESIGNATION

0 200' 400' 800'

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DRAWN BY: SMEN	CHECKED: J. ELLIS
PROJECT MANAGER: DRE	DEPARTMENT MANAGER: DRE
DATE: MAY 2007	TASK/PHASE NUMBER: 0018

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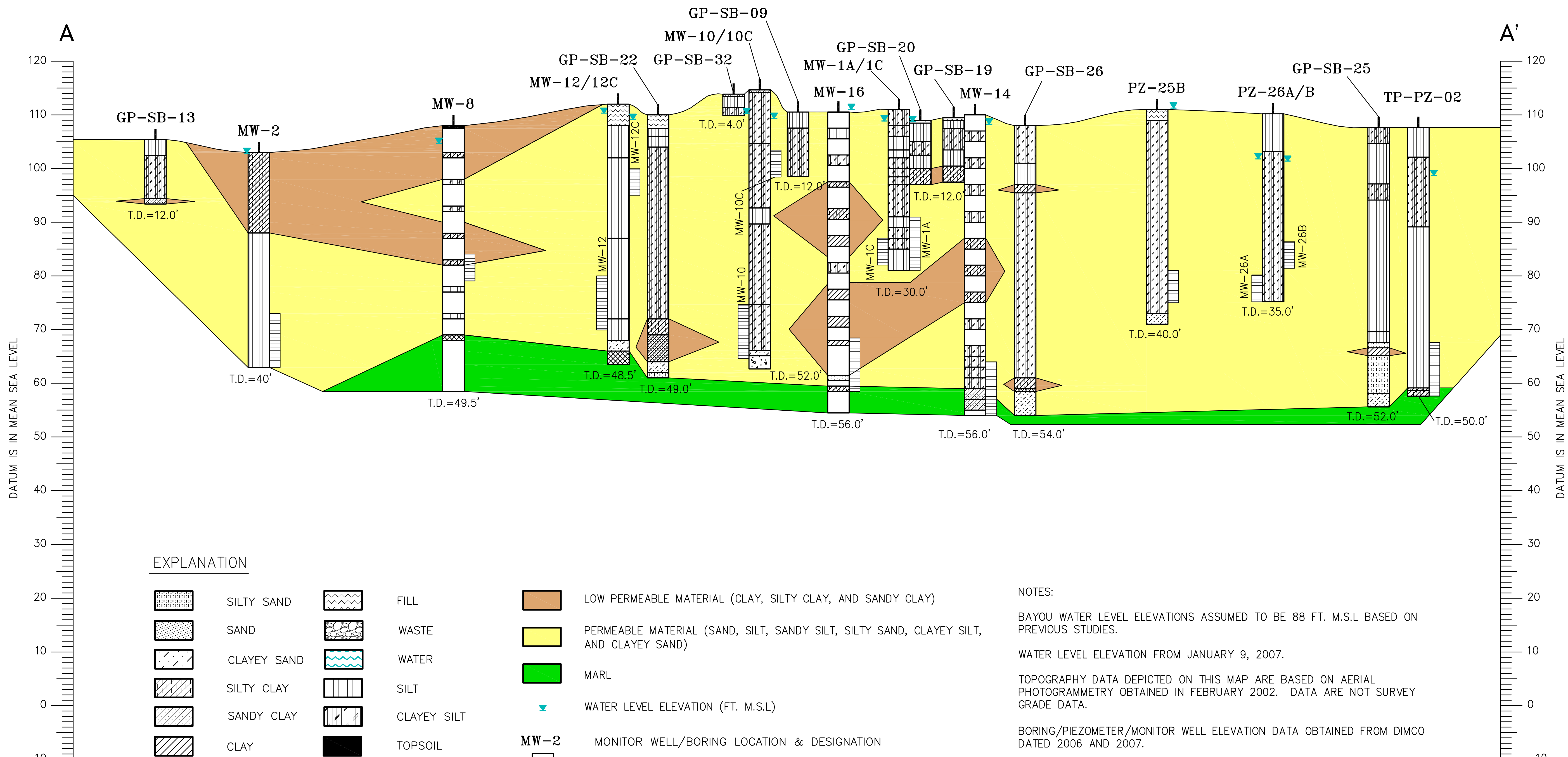
CROSS-SECTION LOCATION MAP

FORMER VICKSBURG CHEMICAL COMPANY SITE

PROJECT NUMBER: LA002656.0001

DRAWING NUMBER: 8



EXPLANATION

SILTY SAND	FILL	LOW PERMEABLE MATERIAL (CLAY, SILTY CLAY, AND SANDY CLAY)
SAND	WASTE	PERMEABLE MATERIAL (SAND, SILT, SANDY SILT, SILTY SAND, CLAYEY SILT, AND CLAYEY SAND)
CLAYEY SAND	WATER	MARL
SILTY CLAY	SILT	WATER LEVEL ELEVATION (FT. M.S.L)
SANDY CLAY	CLAYEY SILT	MW-2 MONITOR WELL/BORING LOCATION & DESIGNATION
CLAY	TOPSOIL	T.D.=12.0' TOTAL DEPTH
SANDY SILT	GRAVEL	SCREEN INTERVAL
	MARL	

NOTES:

BAYOU WATER LEVEL ELEVATIONS ASSUMED TO BE 88 FT. M.S.L BASED ON PREVIOUS STUDIES.

WATER LEVEL ELEVATION FROM JANUARY 9, 2007.

TOPOGRAPHY DATA DEPICTED ON THIS MAP ARE BASED ON AERIAL PHOTOGRAMMETRY OBTAINED IN FEBRUARY 2002. DATA ARE NOT SURVEY GRADE DATA.

BORING/PIEZOMETER/MONITOR WELL ELEVATION DATA OBTAINED FROM DIMCO DATED 2006 AND 2007.

SCREENED INTERVALS FOR PZ-26A/B, MW-1C, MW-10C, AND MW-12C ASSUMED TO BE 5 FEET.

0 300' 600'
HORIZONTAL SCALE

0 20' 40'
VERTICAL SCALE

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REV. | ISSUED | DATE | DESCRIPTION

KEYPLAN

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SECTION A-A'

DRAWN BY S. MEN	CHECKED J. ELLIS	PROJECT MANAGER D. ESCUDE'	DEPARTMENT MANAGER D. ESCUDE'
SHEET TITLE		TASK/PHASE NUMBER 0018	DATE MAY 2007
FORMER VICKSBURG CHEMICAL COMPANY SITE		PROJECT NUMBER LA002656.0001	DRAWING NUMBER 9

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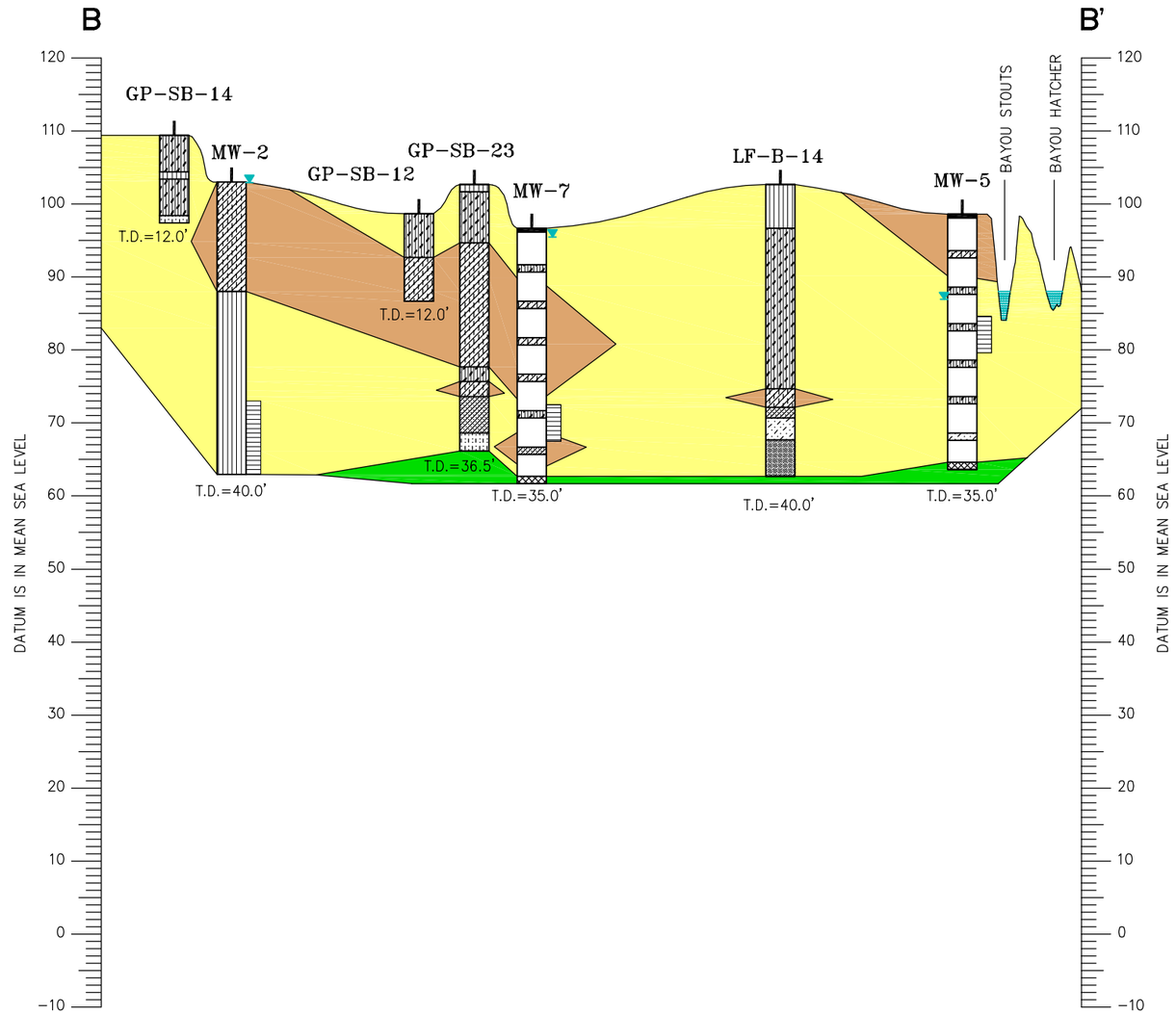

0 300' 600'
HORIZONTAL SCALE

0 20' 40'
VERTICAL SCALE

EXPLANATION

- SILTY SAND
- SAND
- CLAYEY SAND
- SILTY CLAY
- SANDY CLAY
- CLAY
- SANDY SILT
- FILL
- WASTE
- WATER
- SILT
- CLAYEY SILT
- TOPSOIL
- GRAVEL
- MARL

- LOW PERMEABLE MATERIAL (CLAY, SILTY CLAY, AND SANDY CLAY)
- PERMEABLE MATERIAL (SAND, SILT, SANDY SILT, SILTY SAND, CLAYEY SILT, AND CLAYEY SAND)
- MARL
- WATER LEVEL ELEVATION (FT. M.S.L)
- SCREEN INTERVAL
- MW-2 — MONITOR WELL/BORING LOCATION & DESIGNATION
- T.D.=40.0' — TOTAL DEPTH

NOTES:

BAYOU WATER LEVEL ELEVATIONS ASSUMED TO BE 88 FT. M.S.L BASED ON PREVIOUS STUDIES.

WATER LEVEL ELEVATION FROM JANUARY 9, 2007.

TOPOGRAPHY DATA DEPICTED ON THIS MAP ARE BASED ON AERIAL PHOTOGRAMMETRY OBTAINED IN FEBRUARY 2002. DATA ARE NOT SURVEY GRADE DATA.

BORING/PIEZOMETER/MONITOR WELL ELEVATION DATA OBTAINED FROM DIMCO DATED 2006 AND 2007.

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SECTION B-B'

DRAWN BY	CHECKED	PROJECT MANAGER	DEPARTMENT MANAGER
S. MEN	J. ELLIS	D. ESCUDE'	D. ESCUDE'
SHEET TITLE		TASK/PHASE NUMBER	DATE
FORMER VICKSBURG CHEMICAL COMPANY SITE		0018	MAY 2007
		PROJECT NUMBER	DRAWING NUMBER
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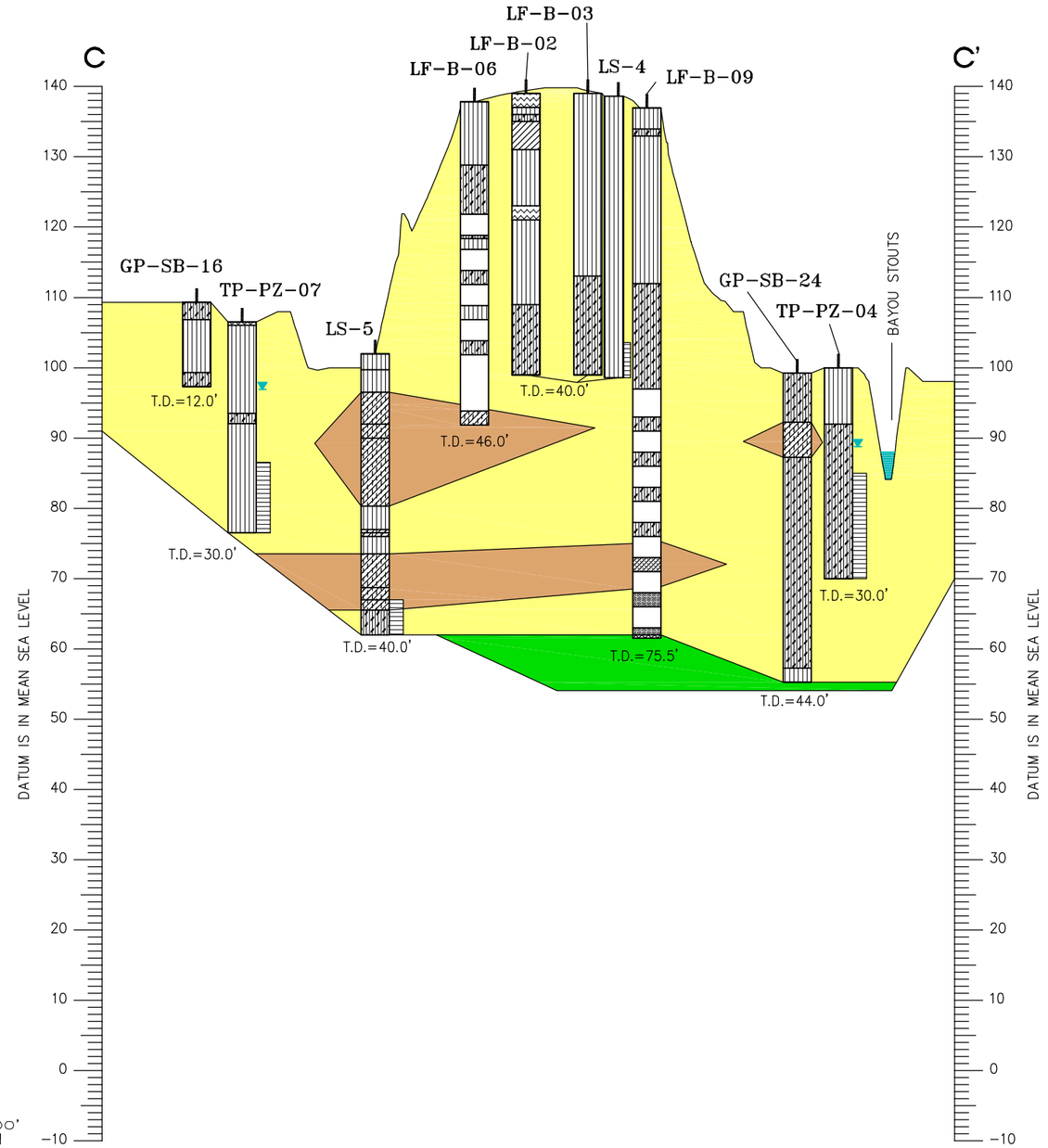

EXPLANATION

- SILTY SAND
- SAND
- CLAYEY SAND
- SILTY CLAY
- SANDY CLAY
- CLAY
- SANDY SILT
- FILL
- WASTE
- WATER
- SILT
- CLAYEY SILT
- TOPSOIL
- GRAVEL
- MARL

- LOW PERMEABLE MATERIAL (CLAY, SILTY CLAY, AND SANDY CLAY)
- PERMEABLE MATERIAL (SAND, SILT, SANDY SILT, SILTY SAND, CLAYEY SILT, AND CLAYEY SAND)
- MARL
- WATER LEVEL ELEVATION (FT. M.S.L)
- SCREEN INTERVAL

GP-SB-24 — MONITOR WELL/BORING LOCATION & DESIGNATION

T.D.=44.0' — TOTAL DEPTH

NOTES:

BAYOU WATER LEVEL ELEVATIONS ASSUMED TO BE 88 FT. M.S.L BASED ON PREVIOUS STUDIES.

WATER LEVEL ELEVATION FROM JANUARY 9, 2007.

TOPOGRAPHY DATA DEPICTED ON THIS MAP ARE BASED ON AERIAL PHOTOGRAMMETRY OBTAINED IN FEBRUARY 2002. DATA ARE NOT SURVEY GRADE DATA.

BORING/PIEZOMETER/MONITOR WELL ELEVATION DATA OBTAINED FROM DIMCO DATED 2006 AND 2007.

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SECTION C-C'

DRAWN BY	CHECKED	PROJECT MANAGER	DEPARTMENT MANAGER
S. MEN	J. ELLIS	D. ESCUDE'	D. ESCUDE'
SHEET TITLE		TASK/PHASE NUMBER	DATE
FORMER VICKSBURG CHEMICAL COMPANY SITE		0018	MAY 2007
		PROJECT NUMBER	DRAWING NUMBER
		LA002656.0001	11

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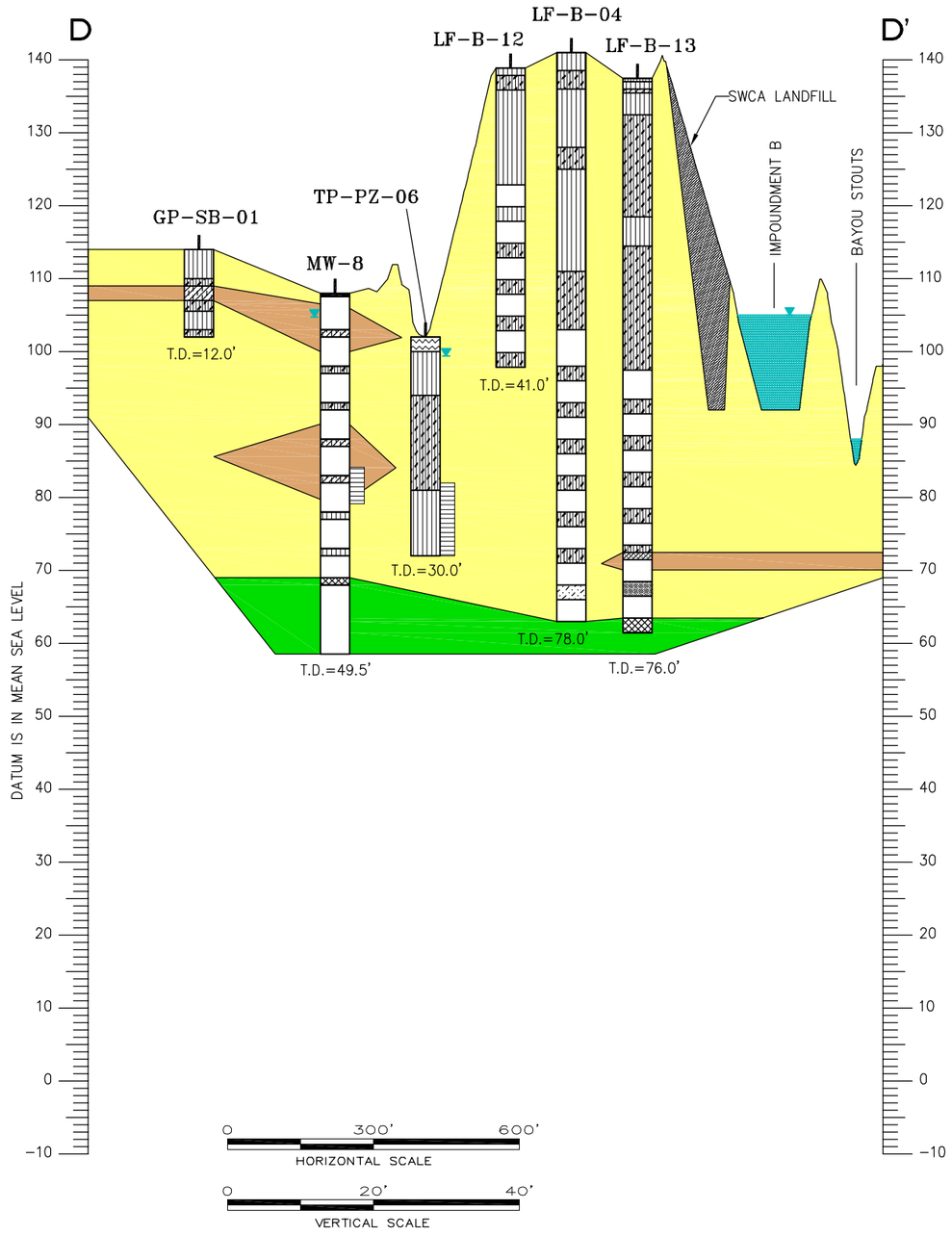

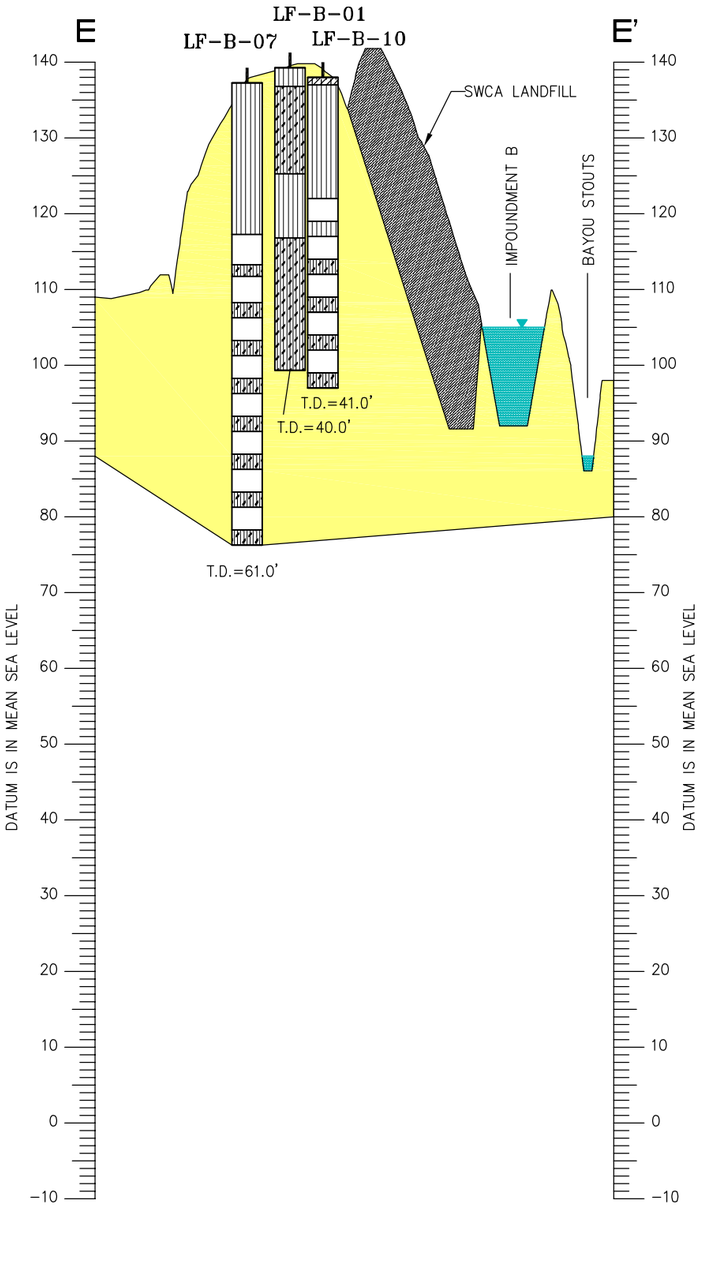

EXPLANATION

- SILTY SAND
- SAND
- CLAYEY SAND
- SILTY CLAY
- SANDY CLAY
- CLAY
- SANDY SILT
- FILL
- WASTE
- WATER
- SILT
- CLAYEY SILT
- TOPSOIL
- GRAVEL
- MARL

- LOW PERMEABLE MATERIAL (CLAY, SILTY CLAY, AND SANDY CLAY)
- PERMEABLE MATERIAL (SAND, SILT, SANDY SILT, SILTY SAND, CLAYEY SILT, AND CLAYEY SAND)
- MARL
- WATER LEVEL ELEVATION (FT. M.S.L)
- SCREEN INTERVAL
- LF-B-12 — MONITOR WELL/BORING LOCATION & DESIGNATION
- T.D.=41.0' — TOTAL DEPTH

NOTES:

BAYOU WATER LEVEL ELEVATIONS ASSUMED TO BE 88 FT. M.S.L BASED ON PREVIOUS STUDIES.

WATER LEVEL ELEVATION FROM JANUARY 9, 2007.

TOPOGRAPHY DATA DEPICTED ON THIS MAP ARE BASED ON AERIAL PHOTOGRAMMETRY OBTAINED IN FEBRUARY 2002. DATA ARE NOT SURVEY GRADE DATA.

BORING/PIEZOMETER/MONITOR WELL ELEVATION DATA OBTAINED FROM DIMCO DATED 2006 AND 2007.

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SECTIONS D-D' AND E-E'

DRAWN BY	CHECKED	PROJECT MANAGER	DEPARTMENT MANAGER
S. MEN	J. ELLIS	D. ESCUDE'	D. ESCUDE'
SHEET TITLE		TASK/PHASE NUMBER	DATE
FORMER VICKSBURG CHEMICAL COMPANY SITE		0018	MAY 2007
		PROJECT NUMBER	DRAWING NUMBER
		LA002656.0001	12

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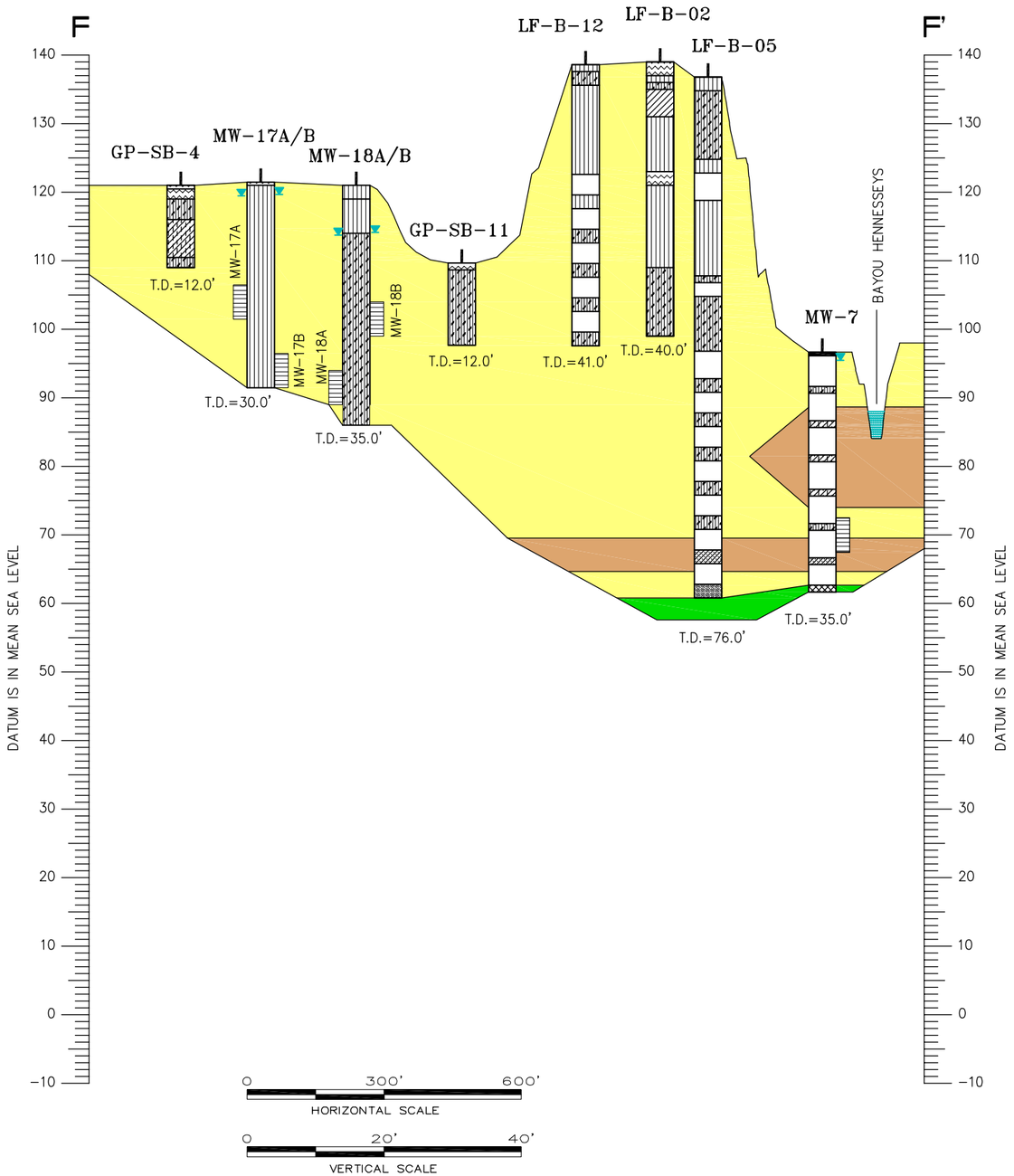

EXPLANATION

- SILTY SAND
- SAND
- CLAYEY SAND
- SILTY CLAY
- SANDY CLAY
- CLAY
- SANDY SILT
- FILL
- WASTE
- WATER
- SILT
- CLAYEY SILT
- TOPSOIL
- GRAVEL
- MARL

- LOW PERMEABLE MATERIAL (CLAY, SILTY CLAY, AND SANDY CLAY)
- PERMEABLE MATERIAL (SAND, SILT, SANDY SILT, SILTY SAND, CLAYEY SILT, AND CLAYEY SAND)
- MARL
- WATER LEVEL ELEVATION (FT. M.S.L)
- SCREEN INTERVAL

MW-7 — MONITOR WELL/BORING LOCATION & DESIGNATION

T.D.=35.0' — TOTAL DEPTH

NOTES:

BAYOU WATER LEVEL ELEVATIONS ASSUMED TO BE 88 FT. M.S.L BASED ON PREVIOUS STUDIES.

WATER LEVEL ELEVATION FROM JANUARY 9, 2007.

TOPOGRAPHY DATA DEPICTED ON THIS MAP ARE BASED ON AERIAL PHOTOGRAMMETRY OBTAINED IN FEBRUARY 2002. DATA ARE NOT SURVEY GRADE DATA.

BORING/PIEZOMETER/MONITOR WELL ELEVATION DATA OBTAINED FROM DIMCO DATED 2006 AND 2007.

SCREENED INTERVALS FOR MW-17A/B AND MW-18A/B ASSUMED TO BE 5 FEET.

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REV.	ISSUED DATE	DESCRIPTION

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SECTION F-F'

DRAWN BY	CHECKED	PROJECT MANAGER	DEPARTMENT MANAGER
S. MEN	J. ELLIS	D. ESCUDE'	D. ESCUDE'
SHEET TITLE		TASK/PHASE NUMBER	DATE
FORMER VICKSBURG CHEMICAL COMPANY SITE		0018	MAY 2007
		PROJECT NUMBER	DRAWING NUMBER
		LA002656.0001	13

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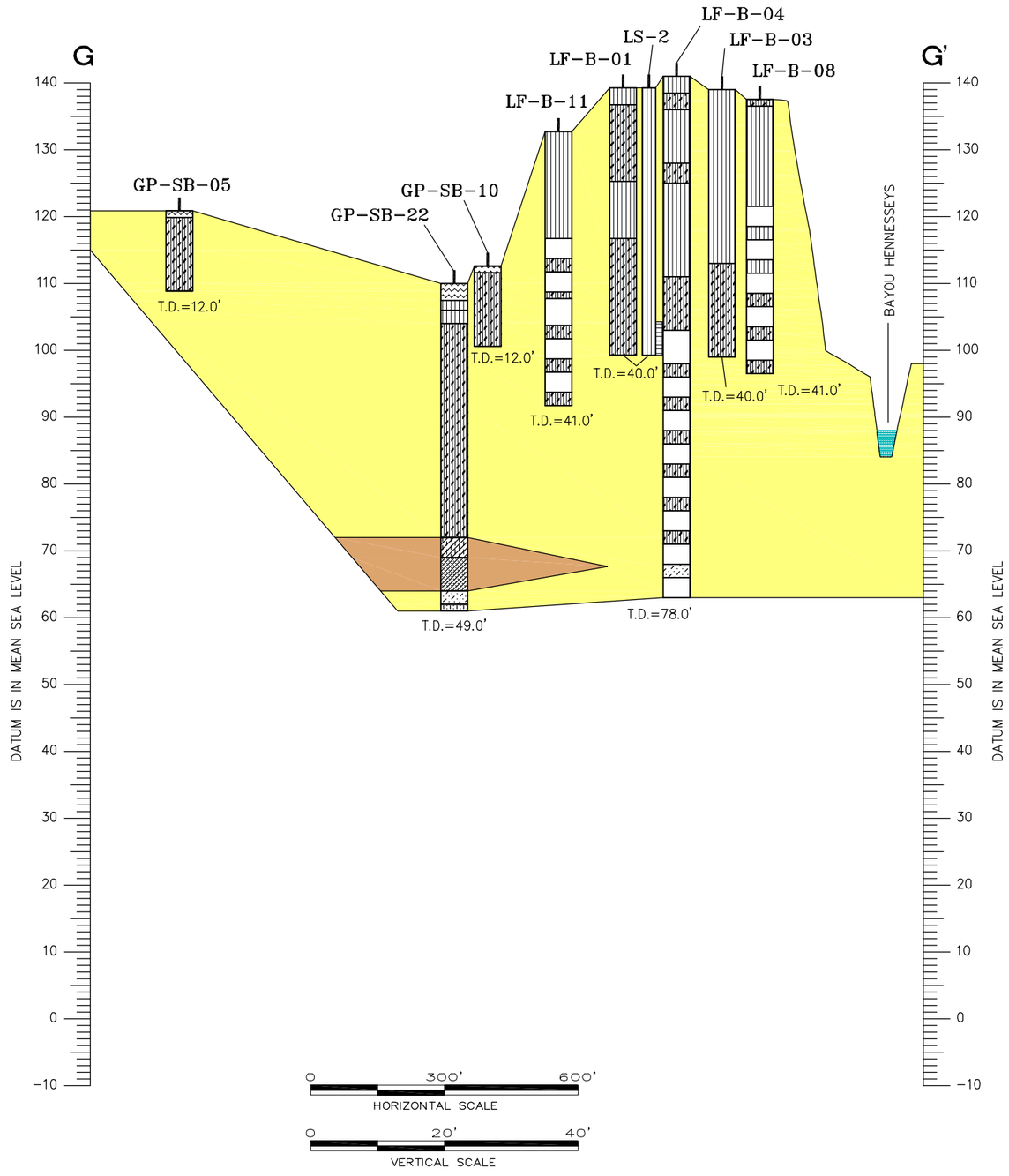

EXPLANATION

SILTY SAND	FILL
SAND	WASTE
CLAYEY SAND	WATER
SILTY CLAY	SILT
SANDY CLAY	CLAYEY SILT
CLAY	TOPSOIL
SANDY SILT	GRAVEL
	MARL

LOW PERMEABLE MATERIAL (CLAY, SILTY CLAY, AND SANDY CLAY)

PERMEABLE MATERIAL (SAND, SILT, SANDY SILT, SILTY SAND, CLAYEY SILT, AND CLAYEY SAND)

MARL

WATER LEVEL ELEVATION (FT. M.S.L)

SCREEN INTERVAL

LF-B-04 MONITOR WELL/BORING LOCATION & DESIGNATION

T.D.=78.0' TOTAL DEPTH

NOTES:

BAYOU WATER LEVEL ELEVATIONS ASSUMED TO BE 88 FT. M.S.L BASED ON PREVIOUS STUDIES.

WATER LEVEL ELEVATION FROM JANUARY 9, 2007.

TOPOGRAPHY DATA DEPICTED ON THIS MAP ARE BASED ON AERIAL PHOTOGRAMMETRY OBTAINED IN FEBRUARY 2002. DATA ARE NOT SURVEY GRADE DATA.

BORING/PIEZOMETER/MONITOR WELL ELEVATION DATA OBTAINED FROM DIMCO DATED 2006 AND 2007.

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REV.	ISSUED DATE	DESCRIPTION

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SECTION G-G'

DRAWN BY: S. MEN	CHECKED: J. ELLIS	PROJECT MANAGER: D. ESCUDE'	DEPARTMENT MANAGER: D. ESCUDE'
SHEET TITLE: FORMER VICKSBURG CHEMICAL COMPANY SITE		TASK/PHASE NUMBER: 0018	DATE: MAY 2007
		PROJECT NUMBER: LA002656.0001	DRAWING NUMBER: 14

smen

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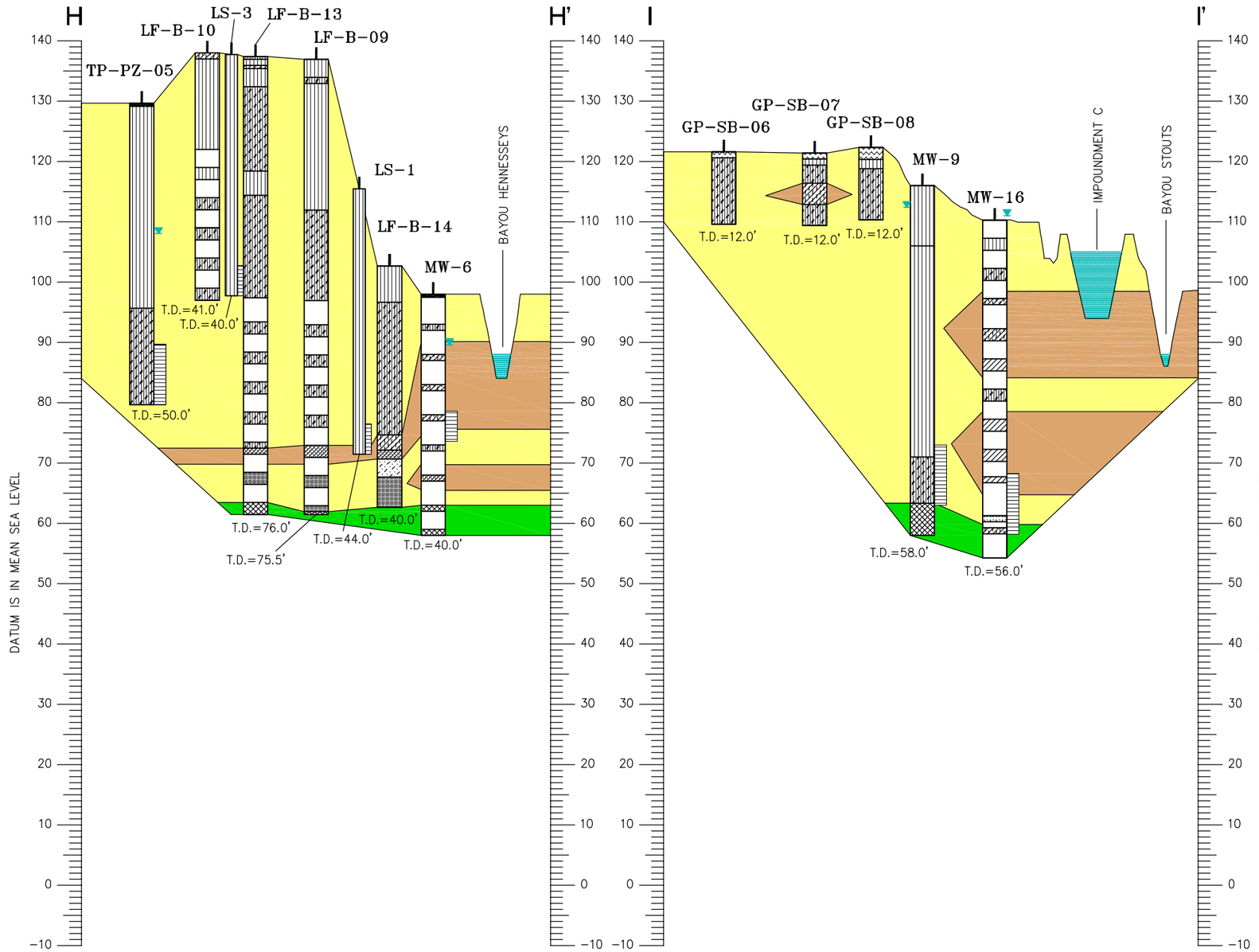

EXPLANATION

- SILTY SAND
- SAND
- CLAYEY SAND
- SILTY CLAY
- SANDY CLAY
- CLAY
- SANDY SILT
- FILL
- WASTE
- WATER
- SILT
- CLAYEY SILT
- TOPSOIL
- GRAVEL
- MARL

- LOW PERMEABLE MATERIAL (CLAY, SILTY CLAY, AND SANDY CLAY)
- PERMEABLE MATERIAL (SAND, SILT, SANDY SILT, SILTY SAND, CLAYEY SILT, AND CLAYEY SAND)
- MARL
- WATER LEVEL ELEVATION (FT. M.S.L)
- SCREEN INTERVAL

MW-9 MONITOR WELL/BORING LOCATION & DESIGNATION

T.D.=58.0' TOTAL DEPTH

NOTES:

BAYOU WATER LEVEL ELEVATIONS ASSUMED TO BE 88 FT. M.S.L BASED ON PREVIOUS STUDIES.

WATER LEVEL ELEVATION FROM JANUARY 9, 2007.

TOPOGRAPHY DATA DEPICTED ON THIS MAP ARE BASED ON AERIAL PHOTOGRAMMETRY OBTAINED IN FEBRUARY 2002. DATA ARE NOT SURVEY GRADE DATA.

BORING/PIEZOMETER/MONITOR WELL ELEVATION DATA OBTAINED FROM DIMCO DATED 2006 AND 2007.

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REV.	ISSUED DATE	DESCRIPTION

KEYPLAN

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FAX: 225-218-9677
WWW.ARCADIS-US.COM

SECTIONS H-H' AND I-I'

DRAWN BY	CHECKED	PROJECT MANAGER	DEPARTMENT MANAGER
S. MEN	J. ELLIS	D. ESCUDE'	D. ESCUDE'
SHEET TITLE		TASK/PHASE NUMBER	DATE
FORMER VICKSBURG CHEMICAL COMPANY SITE		0018	MAY 2007
		PROJECT NUMBER	DRAWING NUMBER
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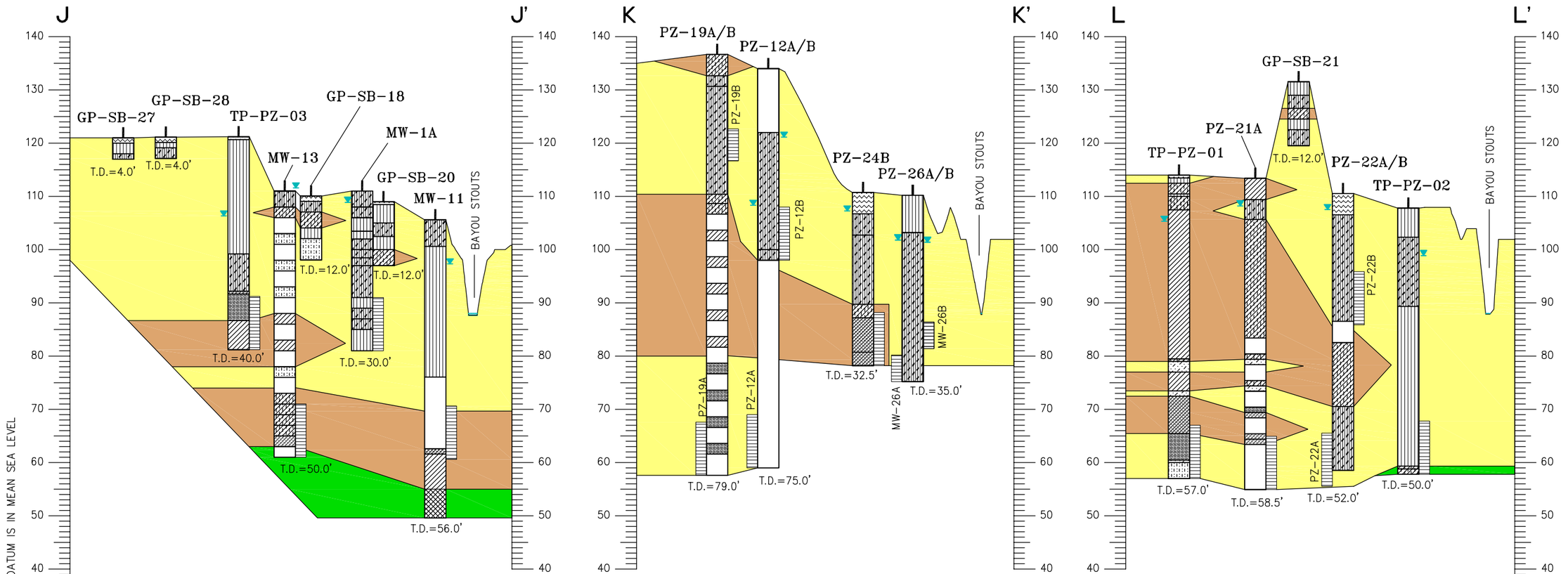

EXPLANATION

- SILTY SAND
- SAND
- CLAYEY SAND
- SILTY CLAY
- SANDY CLAY
- CLAY
- SANDY SILT
- FILL
- WASTE
- WATER
- SILT
- CLAYEY SILT
- TOPSOIL
- GRAVEL
- MARL

- LOW PERMEABLE MATERIAL (CLAY, SILTY CLAY, AND SANDY CLAY)
- PERMEABLE MATERIAL (SAND, SILT, SANDY SILT, SILTY SAND, CLAYEY SILT, AND CLAYEY SAND)
- MARL
- WATER LEVEL ELEVATION (FT. M.S.L)
- MW-11 — MONITOR WELL/BORING LOCATION & DESIGNATION
- T.D.=58.0' — TOTAL DEPTH
- SCREEN INTERVAL

NOTES:

BAYOU WATER LEVEL ELEVATIONS ASSUMED TO BE 88 FT. M.S.L BASED ON PREVIOUS STUDIES.

WATER LEVEL ELEVATION FROM JANUARY 9, 2007.

TOPOGRAPHY DATA DEPICTED ON THIS MAP ARE BASED ON AERIAL PHOTOGRAMMETRY OBTAINED IN FEBRUARY 2002. DATA ARE NOT SURVEY GRADE DATA.

BORING/PIEZOMETER/MONITOR WELL ELEVATION DATA OBTAINED FROM DIMCO DATED 2006 AND 2007.

SCREENED INTERVALS FOR PZ-26A/B ASSUMED TO BE 5 FEET.

0 300' 600'
HORIZONTAL SCALE

0 20' 40'
VERTICAL SCALE

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REV.	ISSUED DATE	DESCRIPTION

KEYPLAN

ARCADIS
10352 PLAZA AMERICANA DRIVE
BATON ROUGE, LA 70816
TEL: 225-292-1004
FAX: 225-218-9677
WWW.ARCADIS-US.COM

SECTIONS J-J', K-K', AND L-L'

DRAWN BY	CHECKED
S. MEN	J. ELLIS

PROJECT MANAGER	DEPARTMENT MANAGER
D. ESCUDE'	D. ESCUDE'

SHEET TITLE: FORMER VICKSBURG CHEMICAL COMPANY SITE

TASK/PHASE NUMBER	DATE
0018	MAY 2007

PROJECT NUMBER	DRAWING NUMBER
LA002656.0001	16

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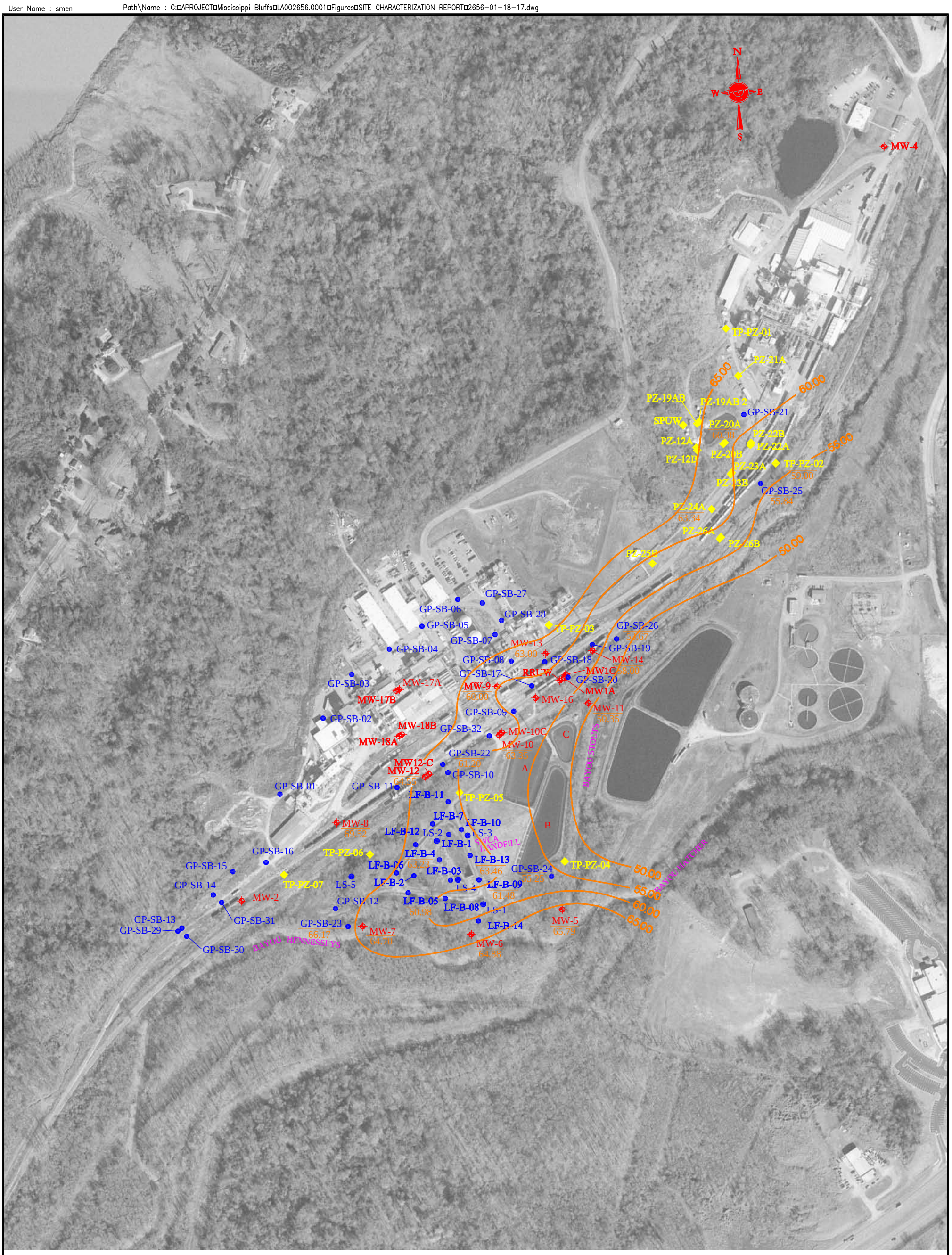

55.25 TOP OF BYRAM MARL (IN FEET MSL)

— 60.00 — STRUCTURE CONTOUR LINE (IN FEET MSL)

LEGEND

- LF-B-13 SOIL BORING LOCATION AND DESIGNATION
- MW-6 MONITOR WELL LOCATION AND DESIGNATION
- TP-PZ-05 PIEZOMETER LOCATION AND DESIGNATION

NOTES:

1.) BORINGS WITH NO VALUES DID NOT PENETRATE DEEP ENOUGH TO EVALUATE THE BYRAM MARL.

2.) CONTOUR INTERVAL IS FIVE (5) FEET.

0 200' 400' 800'

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SMEN	J. ELLIS
PROJECT MANAGER	DEPARTMENT MANAGER
DRE	DRE
DATE	TASK/PHASE NUMBER
OCT 2007	0018

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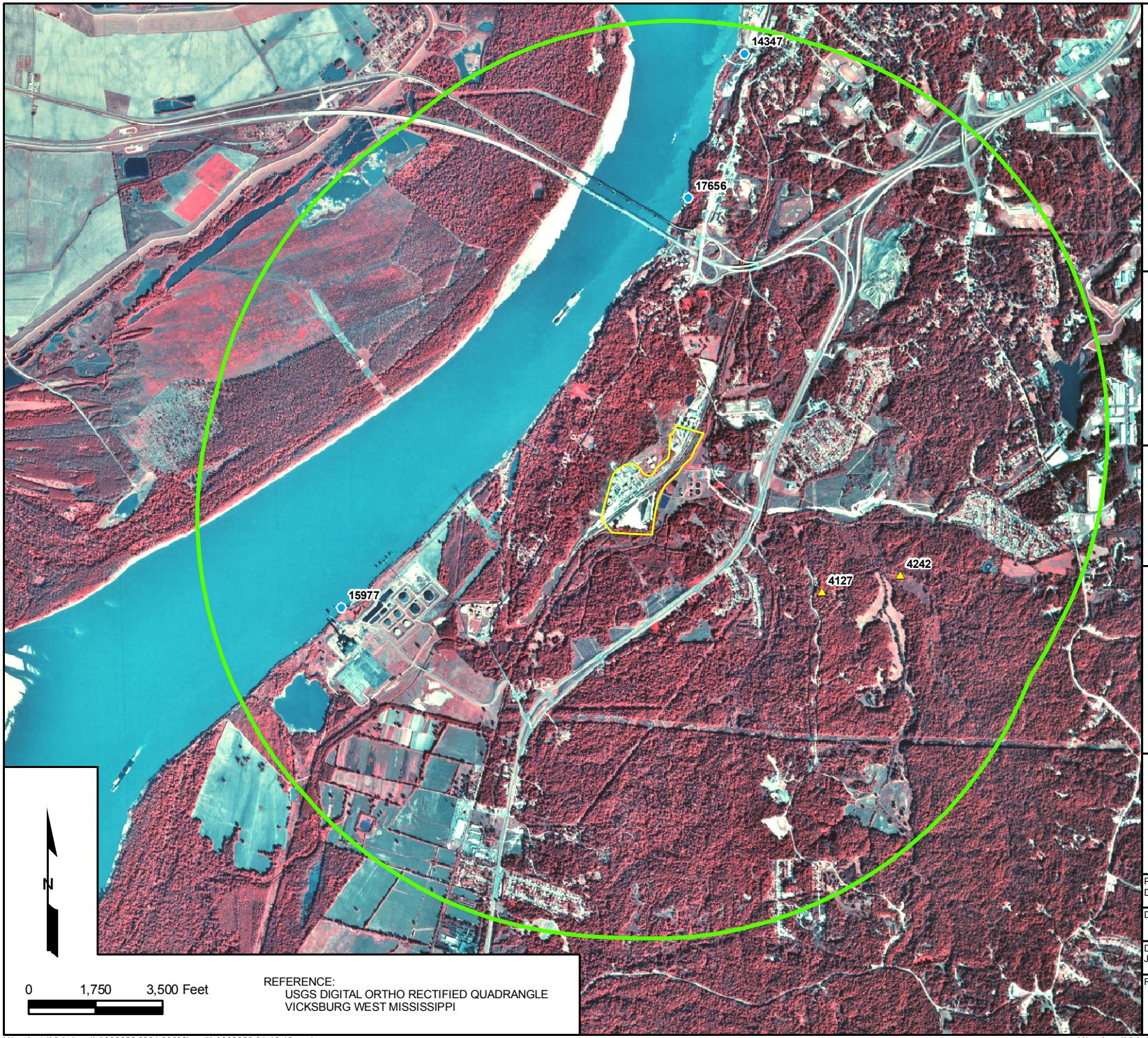
TOP OF BYRAM MARL STRUCTURE MAP

FORMER VICKSBURG CHEMICAL COMPANY SITE

PROJECT NUMBER
LA002656.0001

DRAWING NUMBER
17



REFERENCE:
USGS DIGITAL ORTHO RECTIFIED QUADRANGLE
VICKSBURG WEST MISSISSIPPI

Legend

- USGS Private Wells
- MS Office of Land and Water Resources Permit Wells
- Two-Mile Radius
- MCL Isocontour

Note:
Only wells located east of the Mississippi River were included on this figure.

WATER WELL LOCATION MAP

MISSISSIPPI BLUFFS, INC
Vicksburg, MS

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DRAWING BY: JEC	DATE: 12/18/2007
PROJECT NUMBER: LA002656.0001	DRAWING NUMBER: 18

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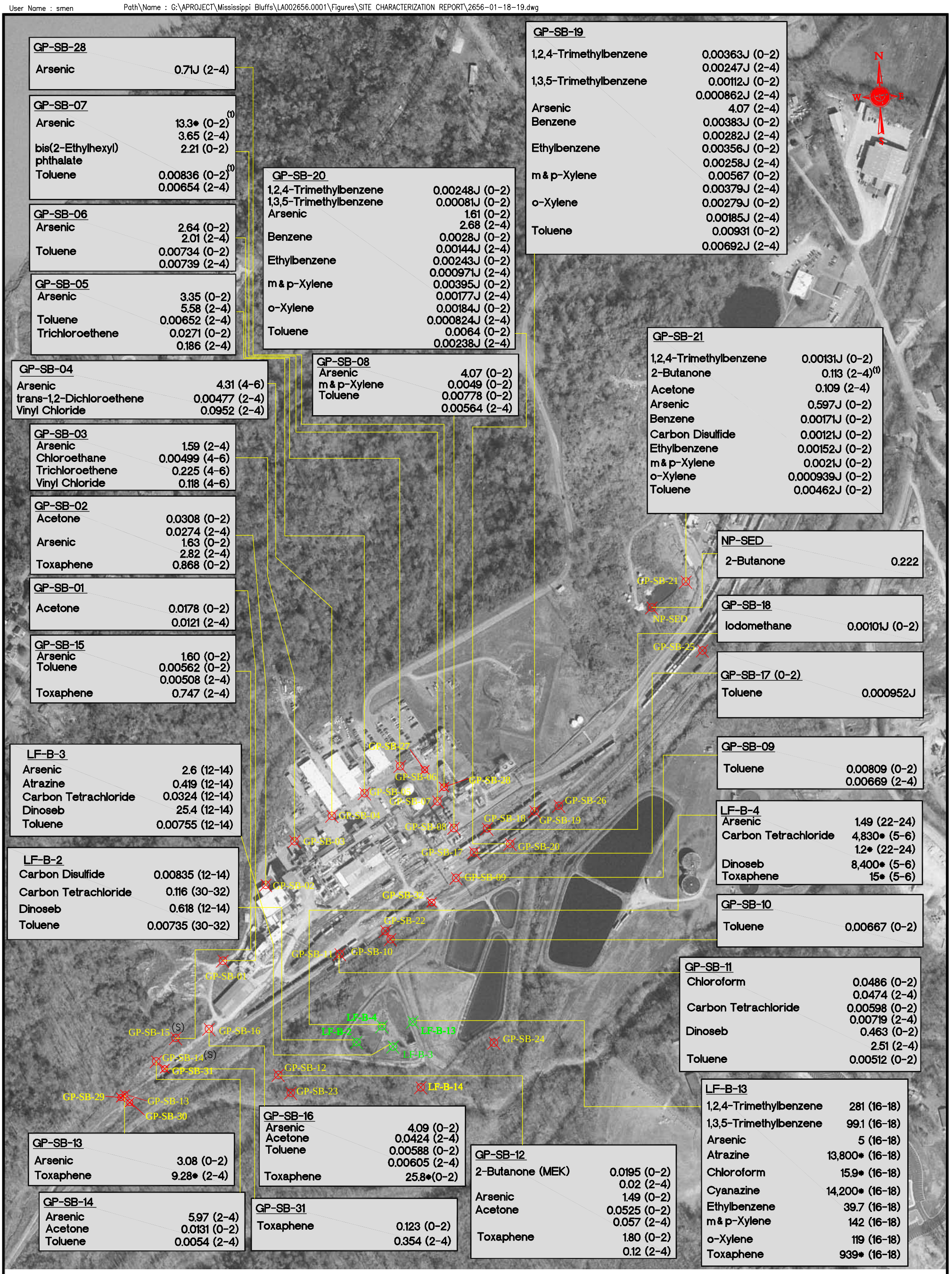

GP-SB-28

Arsenic	0.71J (2-4)

GP-SB-07

Arsenic	13.3* (0-2)(1)
	3.65 (2-4)
bis(2-Ethylhexyl) phthalate	2.21 (0-2)
Toluene	0.00836 (0-2)(1)
	0.00654 (2-4)

GP-SB-06

Arsenic	2.64 (0-2)
	2.01 (2-4)
Toluene	0.00734 (0-2)
	0.00739 (2-4)

GP-SB-05

Arsenic	3.35 (0-2)
	5.58 (2-4)
Toluene	0.00652 (2-4)
Trichloroethene	0.0271 (0-2)
	0.186 (2-4)

GP-SB-04

Arsenic	4.31 (4-6)
trans-1,2-Dichloroethene	0.00477 (2-4)
Vinyl Chloride	0.0952 (2-4)

GP-SB-03

Arsenic	1.59 (2-4)
Chloroethane	0.00499 (4-6)
Trichloroethene	0.225 (4-6)
Vinyl Chloride	0.118 (4-6)

GP-SB-02

Acetone	0.0308 (0-2)
	0.0274 (2-4)
Arsenic	1.63 (0-2)
	2.82 (2-4)
Toxaphene	0.868 (0-2)

GP-SB-01

Acetone	0.0178 (0-2)
	0.0121 (2-4)

GP-SB-15

Arsenic	1.60 (0-2)
Toluene	0.00562 (0-2)
	0.00508 (2-4)
Toxaphene	0.747 (2-4)

LF-B-3

Arsenic	2.6 (12-14)
Atrazine	0.419 (12-14)
Carbon Tetrachloride	0.0324 (12-14)
Dinoseb	25.4 (12-14)
Toluene	0.00755 (12-14)

LF-B-2

Carbon Disulfide	0.00835 (12-14)
Carbon Tetrachloride	0.116 (30-32)
Dinoseb	0.618 (12-14)
Toluene	0.00735 (30-32)

GP-SB-20

1,2,4-Trimethylbenzene	0.00248J (0-2)
1,3,5-Trimethylbenzene	0.00081J (0-2)
Arsenic	1.61 (0-2)
	2.68 (2-4)
Benzene	0.0028J (0-2)
	0.00144J (2-4)
Ethylbenzene	0.00243J (0-2)
	0.000971J (2-4)
m & p-Xylene	0.00395J (0-2)
	0.00177J (2-4)
o-Xylene	0.00184J (0-2)
	0.000824J (2-4)
Toluene	0.0064 (0-2)
	0.00238J (2-4)

GP-SB-08

Arsenic	4.07 (0-2)
m & p-Xylene	0.0049 (0-2)
Toluene	0.00778 (0-2)
	0.00564 (2-4)

GP-SB-19

1,2,4-Trimethylbenzene	0.00363J (0-2)
	0.00247J (2-4)
1,3,5-Trimethylbenzene	0.00112J (0-2)
	0.000862J (2-4)
Arsenic	4.07 (2-4)
Benzene	0.00383J (0-2)
	0.00282J (2-4)
Ethylbenzene	0.00356J (0-2)
	0.00258J (2-4)
m & p-Xylene	0.00567 (0-2)
	0.00379J (2-4)
o-Xylene	0.00279J (0-2)
	0.00185J (2-4)
Toluene	0.00931 (0-2)
	0.00692J (2-4)

GP-SB-21

1,2,4-Trimethylbenzene	0.00131J (0-2)
2-Butanone	0.113 (2-4)(1)
Acetone	0.109 (2-4)
Arsenic	0.597J (0-2)
Benzene	0.00171J (0-2)
Carbon Disulfide	0.00121J (0-2)
Ethylbenzene	0.00152J (0-2)
m & p-Xylene	0.0021J (0-2)
o-Xylene	0.000939J (0-2)
Toluene	0.00462J (0-2)

NP-SED

2-Butanone	0.222

GP-SB-18

Iodomethane	0.00101J (0-2)

GP-SB-17 (0-2)

Toluene	0.000952J

GP-SB-09

Toluene	0.00809 (0-2)
	0.00669 (2-4)

LF-B-4

Arsenic	1.49 (22-24)
Carbon Tetrachloride	4,830* (5-6)
	1.2* (22-24)
Dinoseb	8,400* (5-6)
Toxaphene	15* (5-6)

GP-SB-10

Toluene	0.00667 (0-2)

GP-SB-11

Chloroform	0.0486 (0-2)
	0.0474 (2-4)
Carbon Tetrachloride	0.00598 (0-2)
	0.00719 (2-4)
Dinoseb	0.463 (0-2)
	2.51 (2-4)
Toluene	0.00512 (0-2)

LF-B-13

1,2,4-Trimethylbenzene	281 (16-18)
1,3,5-Trimethylbenzene	99.1 (16-18)
Arsenic	5 (16-18)
Atrazine	13,800* (16-18)
Chloroform	15.9* (16-18)
Cyanazine	14,200* (16-18)
Ethylbenzene	39.7 (16-18)
m & p-Xylene	142 (16-18)
o-Xylene	119 (16-18)
Toxaphene	939* (16-18)

GP-SB-16

Arsenic	4.09 (0-2)
Acetone	0.0424 (2-4)
Toluene	0.00588 (0-2)
	0.00605 (2-4)
Toxaphene	25.8*(0-2)

GP-SB-13

Arsenic	3.08 (0-2)
Toxaphene	9.28* (2-4)

GP-SB-14

Arsenic	5.97 (2-4)
Acetone	0.0131 (0-2)
Toluene	0.0054 (2-4)

GP-SB-31

Toxaphene	0.123 (0-2)
	0.354 (2-4)

GP-SB-12

2-Butanone (MEK)	0.0195 (0-2)
	0.02 (2-4)
Arsenic	1.49 (0-2)
Acetone	0.0525 (0-2)
	0.057 (2-4)
Toxaphene	1.80 (0-2)
	0.12 (2-4)

LEGEND

GP-SB-26 / LF-B-13 — SOIL BORING LOCATION AND DESIGNATION

SWMU2 LANDFILL SAMPLE LOCATION AND DESIGNATION

ALL CONCENTRATIONS ARE IN MILLIGRAMS PER KILORGRAM (mg/kg)

(1) ANALYTICAL RESULT FROM DUPLICATE SAMPLES (GP-SB-DUP-01 FOR GP-SB-07(0-2) AND GP-SB-DUP-03 FOR GP-SB-21(2-4)) ARE PRESENTED.

*	CONCENTRATION EXCEEDS MDEQ TIER 1 TRG (FOR RESTRICTED USE).
J	ESTIMATED VALUE
(0-2)	INDICATES SAMPLE INTERVAL BELOW LAND SURFACE
(S)	STOCKPILE SAMPLE

0 200' 400' 800'

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PROJECT MANAGER: DRE	DEPARTMENT MANAGER: DRE
DATE: 05-16-07	TASK/PHASE NUMBER: 0018

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DETECTED SOIL CONCENTRATIONS

FORMER VICKSBURG CHEMICAL COMPANY SITE

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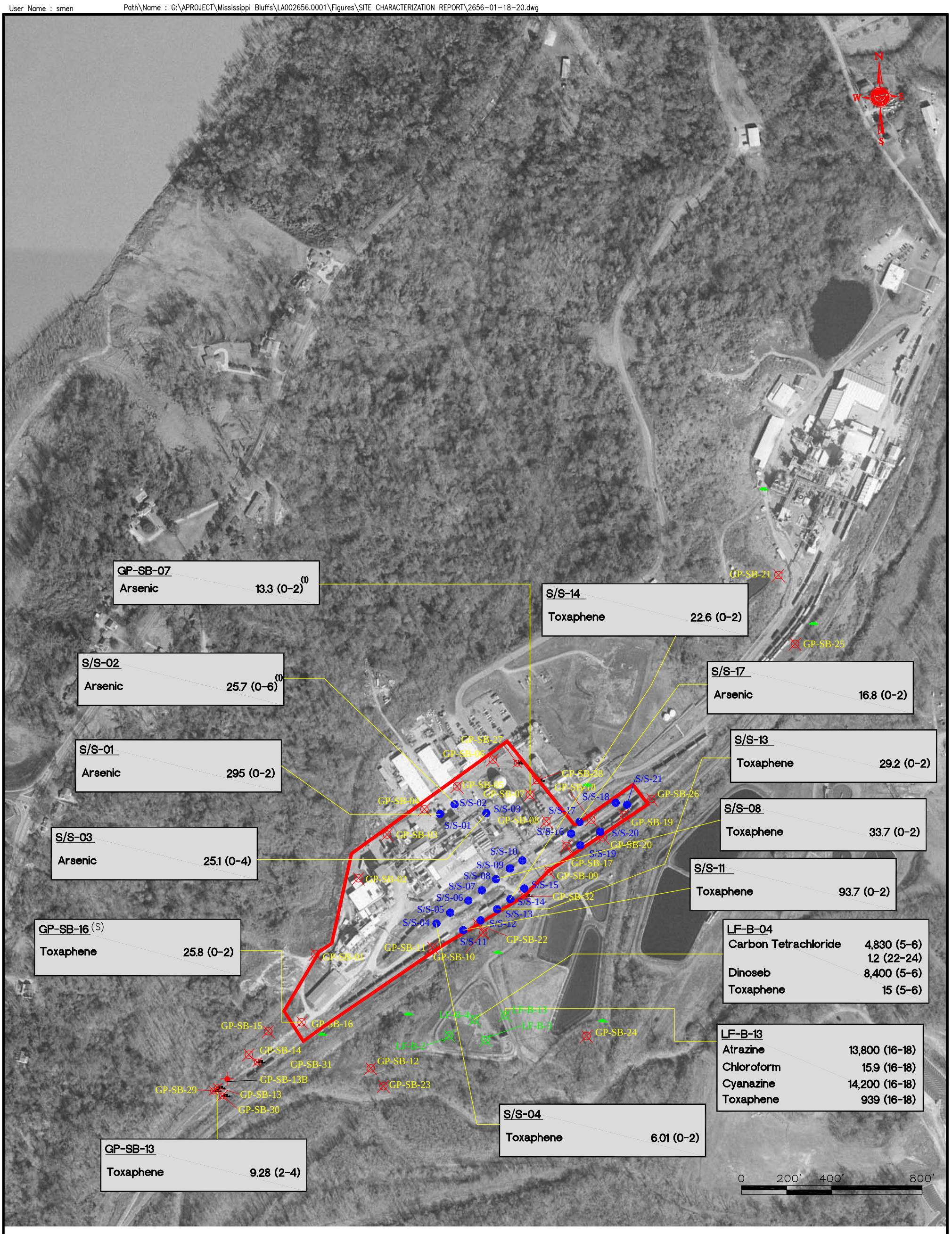

LEGEND

GP-SB-07	SOIL BORING LOCATION AND DESIGNATION
S/S-01	STABILIZATION SAMPLE LOCATION AND DESIGNATION (ONLY ARSENIC, DINOSEB, AND/OR TOXAPHENE ANALYZED)
LF-B-1	SWMU2 LANDFILL SAMPLE LOCATION AND DESIGNATION
(1)	ANALYTICAL RESULT FROM DUPLICATE SAMPLES (GP-SB-DUP-01 FOR GP-SB-07(0-2) AND S/S-DUP-01 FOR S/S-02(0-6)) ARE PRESENTED.
J	ESTIMATED VALUE
GP-SB-27	SOIL BORING (LOCATION NOT SURVEYED. LAB DATA FOR THESE LOCATIONS WERE NOT AVAILABLE FOR DEPICTION ON THIS MAP.)
	ALL CONCENTRATIONS ARE IN MILLIGRAMS PER KILOGRAM (mg/kg)
	PROPOSED PLANT SOIL CAP BOUNDARY (AREA DELINEATED)
(S)	STOCKPILE SAMPLE

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SOIL CONCENTRATIONS ABOVE MDEQ TIER 1 TRGs AND PROPOSED CAP LIMITS

FORMER VICKSBURG CHEMICAL COMPANY SITE

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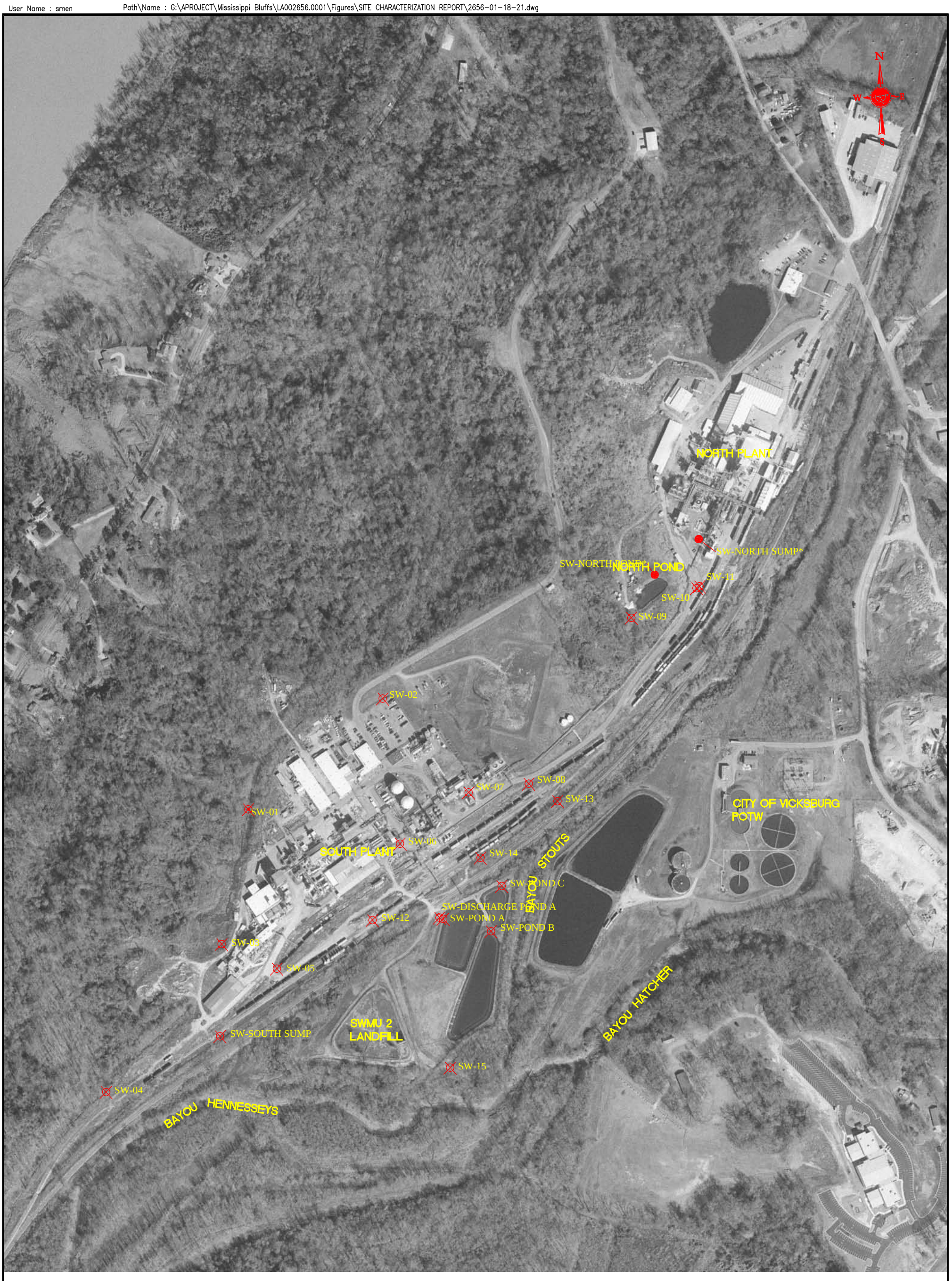

LEGEND

SW-04 ⊗ STORM WATER SAMPLE LOCATION

* LOCATION NOT SURVEYED

0 200' 400' 800'

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DATE: 05-16-07	TASK/PHASE NUMBER: 0018

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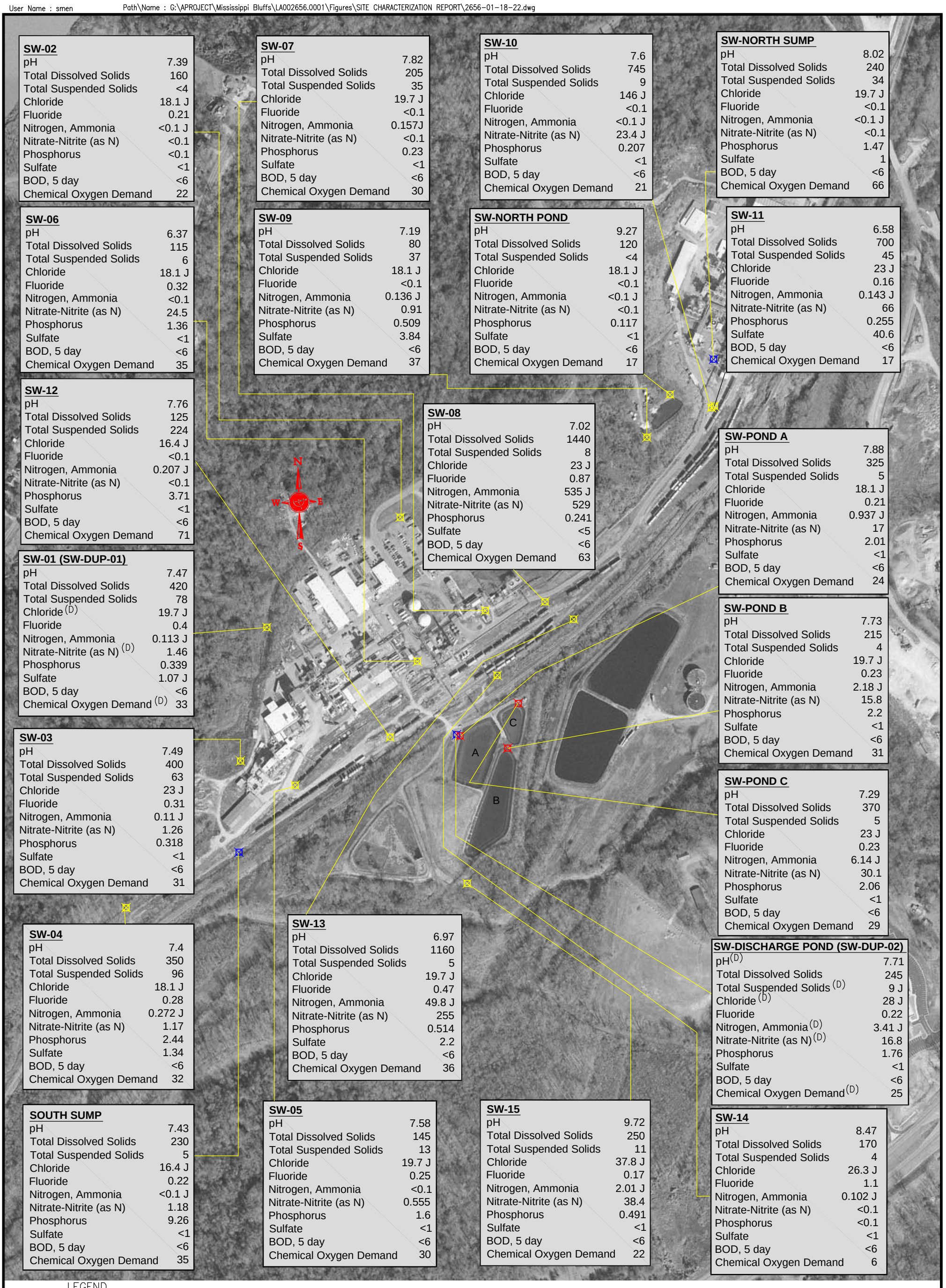
STORM WATER SAMPLING LOCATIONS

FORMER VICKSBURG CHEMICAL COMPANY SITE

PROJECT NUMBER: LA002656.0001

DRAWING NUMBER: 21



SW-02

pH	7.39
Total Dissolved Solids	160
Total Suspended Solids	<4
Chloride	18.1 J
Fluoride	0.21
Nitrogen, Ammonia	<0.1 J
Nitrate-Nitrite (as N)	<0.1
Phosphorus	<0.1
Sulfate	<1
BOD, 5 day	<6
Chemical Oxygen Demand	22

SW-07

pH	7.82
Total Dissolved Solids	205
Total Suspended Solids	35
Chloride	19.7 J
Fluoride	<0.1
Nitrogen, Ammonia	0.157J
Nitrate-Nitrite (as N)	<0.1
Phosphorus	0.23
Sulfate	<1
BOD, 5 day	<6
Chemical Oxygen Demand	30

SW-10

pH	7.6
Total Dissolved Solids	745
Total Suspended Solids	9
Chloride	146 J
Fluoride	<0.1
Nitrogen, Ammonia	<0.1 J
Nitrate-Nitrite (as N)	23.4 J
Phosphorus	0.207
Sulfate	<1
BOD, 5 day	<6
Chemical Oxygen Demand	21

SW-NORTH SUMP

pH	8.02
Total Dissolved Solids	240
Total Suspended Solids	34
Chloride	19.7 J
Fluoride	<0.1
Nitrogen, Ammonia	<0.1 J
Nitrate-Nitrite (as N)	<0.1
Phosphorus	1.47
Sulfate	1
BOD, 5 day	<6
Chemical Oxygen Demand	66

SW-06

pH	6.37
Total Dissolved Solids	115
Total Suspended Solids	6
Chloride	18.1 J
Fluoride	0.32
Nitrogen, Ammonia	<0.1
Nitrate-Nitrite (as N)	24.5
Phosphorus	1.36
Sulfate	<1
BOD, 5 day	<6
Chemical Oxygen Demand	35

SW-09

pH	7.19
Total Dissolved Solids	80
Total Suspended Solids	37
Chloride	18.1 J
Fluoride	<0.1
Nitrogen, Ammonia	0.136 J
Nitrate-Nitrite (as N)	0.91
Phosphorus	0.509
Sulfate	3.84
BOD, 5 day	<6
Chemical Oxygen Demand	37

SW-NORTH POND

pH	9.27
Total Dissolved Solids	120
Total Suspended Solids	<4
Chloride	18.1 J
Fluoride	<0.1
Nitrogen, Ammonia	<0.1 J
Nitrate-Nitrite (as N)	<0.1
Phosphorus	0.117
Sulfate	<1
BOD, 5 day	<6
Chemical Oxygen Demand	17

SW-11

pH	6.58
Total Dissolved Solids	700
Total Suspended Solids	45
Chloride	23 J
Fluoride	0.16
Nitrogen, Ammonia	0.143 J
Nitrate-Nitrite (as N)	66
Phosphorus	0.255
Sulfate	40.6
BOD, 5 day	<6
Chemical Oxygen Demand	17

SW-12

pH	7.76
Total Dissolved Solids	125
Total Suspended Solids	224
Chloride	16.4 J
Fluoride	<0.1
Nitrogen, Ammonia	0.207 J
Nitrate-Nitrite (as N)	<0.1
Phosphorus	3.71
Sulfate	<1
BOD, 5 day	<6
Chemical Oxygen Demand	71

SW-08

pH	7.02
Total Dissolved Solids	1440
Total Suspended Solids	8
Chloride	23 J
Fluoride	0.87
Nitrogen, Ammonia	535 J
Nitrate-Nitrite (as N)	529
Phosphorus	0.241
Sulfate	<5
BOD, 5 day	<6
Chemical Oxygen Demand	63

SW-POND A

pH	7.88
Total Dissolved Solids	325
Total Suspended Solids	5
Chloride	18.1 J
Fluoride	0.21
Nitrogen, Ammonia	0.937 J
Nitrate-Nitrite (as N)	17
Phosphorus	2.01
Sulfate	<1
BOD, 5 day	<6
Chemical Oxygen Demand	24

SW-01 (SW-DUP-01)

pH	7.47
Total Dissolved Solids	420
Total Suspended Solids	78
Chloride (D)	19.7 J
Fluoride	0.4
Nitrogen, Ammonia	0.113 J
Nitrate-Nitrite (as N) (D)	1.46
Phosphorus	0.339
Sulfate	1.07 J
BOD, 5 day	<6
Chemical Oxygen Demand (D)	33

SW-POND B

pH	7.73
Total Dissolved Solids	215
Total Suspended Solids	4
Chloride	19.7 J
Fluoride	0.23
Nitrogen, Ammonia	2.18 J
Nitrate-Nitrite (as N)	15.8
Phosphorus	2.2
Sulfate	<1
BOD, 5 day	<6
Chemical Oxygen Demand	31

SW-03

pH	7.49
Total Dissolved Solids	400
Total Suspended Solids	63
Chloride	23 J
Fluoride	0.31
Nitrogen, Ammonia	0.11 J
Nitrate-Nitrite (as N)	1.26
Phosphorus	0.318
Sulfate	<1
BOD, 5 day	<6
Chemical Oxygen Demand	31

SW-POND C

pH	7.29
Total Dissolved Solids	370
Total Suspended Solids	5
Chloride	23 J
Fluoride	0.23
Nitrogen, Ammonia	6.14 J
Nitrate-Nitrite (as N)	30.1
Phosphorus	2.06
Sulfate	<1
BOD, 5 day	<6
Chemical Oxygen Demand	29

SW-04

pH	7.4
Total Dissolved Solids	350
Total Suspended Solids	96
Chloride	18.1 J
Fluoride	0.28
Nitrogen, Ammonia	0.272 J
Nitrate-Nitrite (as N)	1.17
Phosphorus	2.44
Sulfate	1.34
BOD, 5 day	<6
Chemical Oxygen Demand	32

SW-13

pH	6.97
Total Dissolved Solids	1160
Total Suspended Solids	5
Chloride	19.7 J
Fluoride	0.47
Nitrogen, Ammonia	49.8 J
Nitrate-Nitrite (as N)	255
Phosphorus	0.514
Sulfate	2.2
BOD, 5 day	<6
Chemical Oxygen Demand	36

SW-DISCHARGE POND (SW-DUP-02)

pH (D)	7.71
Total Dissolved Solids	245
Total Suspended Solids (D)	9 J
Chloride (D)	28 J
Fluoride	0.22
Nitrogen, Ammonia (D)	3.41 J
Nitrate-Nitrite (as N) (D)	16.8
Phosphorus	1.76
Sulfate	<1
BOD, 5 day	<6
Chemical Oxygen Demand (D)	25

SOUTH SUMP

pH	7.43
Total Dissolved Solids	230
Total Suspended Solids	5
Chloride	16.4 J
Fluoride	0.22
Nitrogen, Ammonia	<0.1 J
Nitrate-Nitrite (as N)	1.18
Phosphorus	9.26
Sulfate	<1
BOD, 5 day	<6
Chemical Oxygen Demand	35

SW-05

pH	7.58
Total Dissolved Solids	145
Total Suspended Solids	13
Chloride	19.7 J
Fluoride	0.25
Nitrogen, Ammonia	<0.1
Nitrate-Nitrite (as N)	0.555
Phosphorus	1.6
Sulfate	<1
BOD, 5 day	<6
Chemical Oxygen Demand	30

SW-15

pH	9.72
Total Dissolved Solids	250
Total Suspended Solids	11
Chloride	37.8 J
Fluoride	0.17
Nitrogen, Ammonia	2.01 J
Nitrate-Nitrite (as N)	38.4
Phosphorus	0.491
Sulfate	<1
BOD, 5 day	<6
Chemical Oxygen Demand	22

SW-14

pH	8.47
Total Dissolved Solids	170
Total Suspended Solids	4
Chloride	26.3 J
Fluoride	1.1
Nitrogen, Ammonia	0.102 J
Nitrate-Nitrite (as N)	<0.1
Phosphorus	<0.1
Sulfate	<1
BOD, 5 day	<6
Chemical Oxygen Demand	6

LEGEND

- SHEET FLOW
- STORM WATER SUMP/OUTFALL
- STORM WATER POND
- (D) HIGHER CONCENTRATION MEASURED IN DUPLICATE SAMPLE REPORTED.
- S.U. STANDARD UNITS

NOTE: ALL CONCENTRATIONS ARE IN MILLIGRAMS PER LITER (mg/L), EXCEPT pH WHICH IS IN STANDARD UNITS (S.U.).

0 200' 400' 800'

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PROJECT MANAGER: DRE	DEPARTMENT MANAGER: DRE
DATE: 05-16-07	TASK/PHASE NUMBER: 0018

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STORM WATER CONVENTIONAL PARAMETERS

FORMER VICKSBURG CHEMICAL COMPANY SITE

PROJECT NUMBER: LA002656.0001

DRAWING NUMBER: 22

User Name : smen

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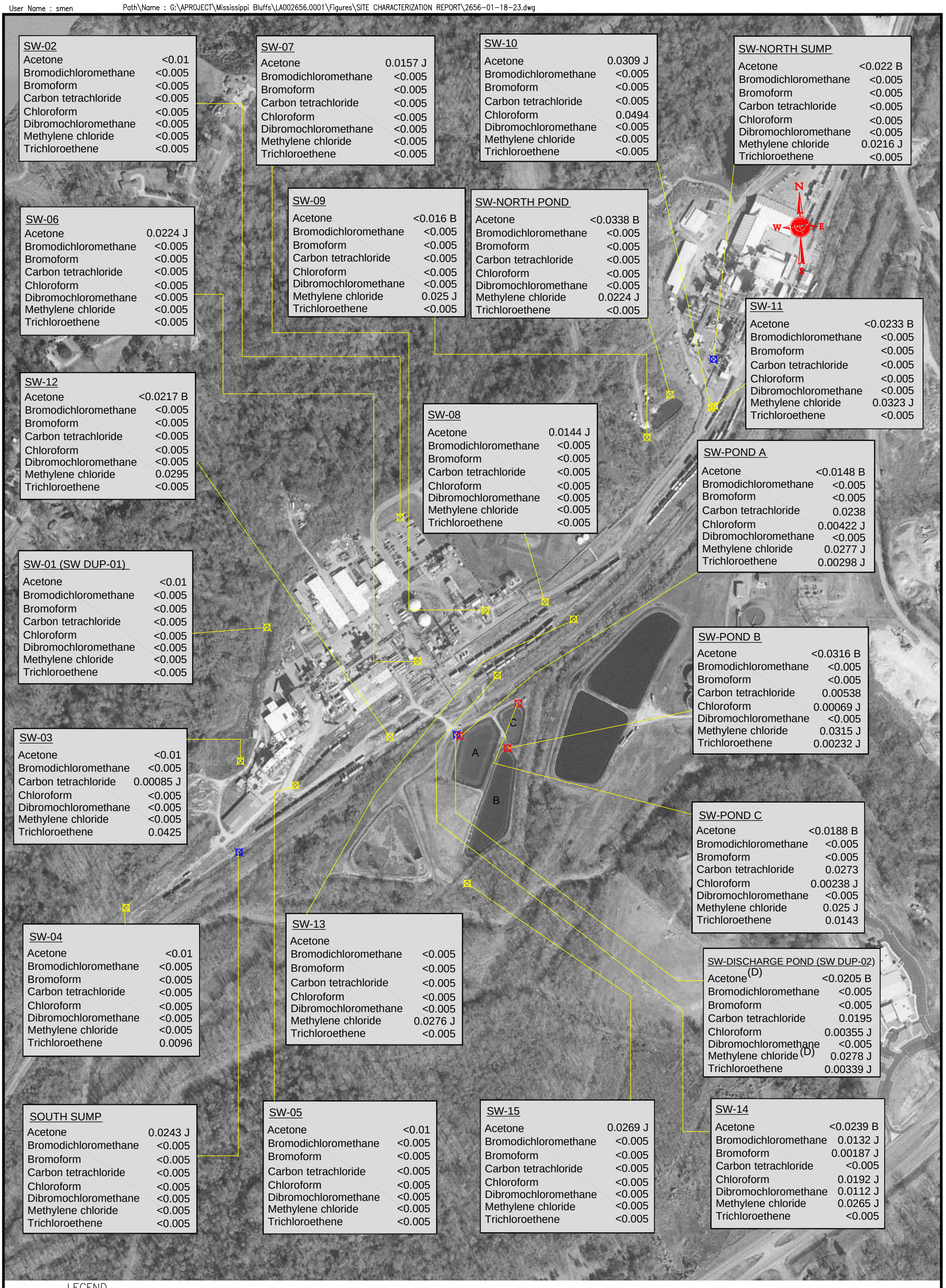

SW-02

Acetone	<0.01
Bromodichloromethane	<0.005
Bromoform	<0.005
Carbon tetrachloride	<0.005
Chloroform	<0.005
Dibromochloromethane	<0.005
Methylene chloride	<0.005
Trichloroethene	<0.005

SW-07

Acetone	0.0157 J
Bromodichloromethane	<0.005
Bromoform	<0.005
Carbon tetrachloride	<0.005
Chloroform	<0.005
Dibromochloromethane	<0.005
Methylene chloride	<0.005
Trichloroethene	<0.005

SW-10

Acetone	0.0309 J
Bromodichloromethane	<0.005
Bromoform	<0.005
Carbon tetrachloride	<0.005
Chloroform	0.0494
Dibromochloromethane	<0.005
Methylene chloride	<0.005
Trichloroethene	<0.005

SW-NORTH SUMP

Acetone	<0.022 B
Bromodichloromethane	<0.005
Bromoform	<0.005
Carbon tetrachloride	<0.005
Chloroform	<0.005
Dibromochloromethane	<0.005
Methylene chloride	0.0216 J
Trichloroethene	<0.005

SW-06

Acetone	0.0224 J
Bromodichloromethane	<0.005
Bromoform	<0.005
Carbon tetrachloride	<0.005
Chloroform	<0.005
Dibromochloromethane	<0.005
Methylene chloride	<0.005
Trichloroethene	<0.005

SW-09

Acetone	<0.016 B
Bromodichloromethane	<0.005
Bromoform	<0.005
Carbon tetrachloride	<0.005
Chloroform	<0.005
Dibromochloromethane	<0.005
Methylene chloride	0.025 J
Trichloroethene	<0.005

SW-NORTH POND

Acetone	<0.0338 B
Bromodichloromethane	<0.005
Bromoform	<0.005
Carbon tetrachloride	<0.005
Chloroform	<0.005
Dibromochloromethane	<0.005
Methylene chloride	0.0224 J
Trichloroethene	<0.005

SW-11

Acetone	<0.0233 B
Bromodichloromethane	<0.005
Bromoform	<0.005
Carbon tetrachloride	<0.005
Chloroform	<0.005
Dibromochloromethane	<0.005
Methylene chloride	0.0323 J
Trichloroethene	<0.005

SW-12

Acetone	<0.0217 B
Bromodichloromethane	<0.005
Bromoform	<0.005
Carbon tetrachloride	<0.005
Chloroform	<0.005
Dibromochloromethane	<0.005
Methylene chloride	0.0295
Trichloroethene	<0.005

SW-08

Acetone	0.0144 J
Bromodichloromethane	<0.005
Bromoform	<0.005
Carbon tetrachloride	<0.005
Chloroform	<0.005
Dibromochloromethane	<0.005
Methylene chloride	<0.005
Trichloroethene	<0.005

SW-POND A

Acetone	<0.0148 B
Bromodichloromethane	<0.005
Bromoform	<0.005
Carbon tetrachloride	0.0238
Chloroform	0.00422 J
Dibromochloromethane	<0.005
Methylene chloride	0.0277 J
Trichloroethene	0.00298 J

SW-01 (SW DUP-01)

Acetone	<0.01
Bromodichloromethane	<0.005
Bromoform	<0.005
Carbon tetrachloride	<0.005
Chloroform	<0.005
Dibromochloromethane	<0.005
Methylene chloride	<0.005
Trichloroethene	<0.005

SW-POND B

Acetone	<0.0316 B
Bromodichloromethane	<0.005
Bromoform	<0.005
Carbon tetrachloride	0.00538
Chloroform	0.00069 J
Dibromochloromethane	<0.005
Methylene chloride	0.0315 J
Trichloroethene	0.00232 J

SW-03

Acetone	<0.01
Bromodichloromethane	<0.005
Carbon tetrachloride	0.00085 J
Chloroform	<0.005
Dibromochloromethane	<0.005
Methylene chloride	<0.005
Trichloroethene	0.0425

SW-POND C

Acetone	<0.0188 B
Bromodichloromethane	<0.005
Bromoform	<0.005
Carbon tetrachloride	0.0273
Chloroform	0.00238 J
Dibromochloromethane	<0.005
Methylene chloride	0.025 J
Trichloroethene	0.0143

SW-04

Acetone	<0.01
Bromodichloromethane	<0.005
Bromoform	<0.005
Carbon tetrachloride	<0.005
Chloroform	<0.005
Dibromochloromethane	<0.005
Methylene chloride	<0.005
Trichloroethene	0.0096

SW-13

Acetone	
Bromodichloromethane	<0.005
Bromoform	<0.005
Carbon tetrachloride	<0.005
Chloroform	<0.005
Dibromochloromethane	<0.005
Methylene chloride	0.0276 J
Trichloroethene	<0.005

SW-DISCHARGE POND (SW DUP-02)

Acetone (D)	<0.0205 B
Bromodichloromethane	<0.005
Bromoform	<0.005
Carbon tetrachloride	0.0195
Chloroform	0.00355 J
Dibromochloromethane	<0.005
Methylene chloride (D)	0.0278 J
Trichloroethene	0.00339 J

SOUTH SUMP

Acetone	0.0243 J
Bromodichloromethane	<0.005
Bromoform	<0.005
Carbon tetrachloride	<0.005
Chloroform	<0.005
Dibromochloromethane	<0.005
Methylene chloride	<0.005
Trichloroethene	<0.005

SW-05

Acetone	<0.01
Bromodichloromethane	<0.005
Bromoform	<0.005
Carbon tetrachloride	<0.005
Chloroform	<0.005
Dibromochloromethane	<0.005
Methylene chloride	<0.005
Trichloroethene	<0.005

SW-15

Acetone	0.0269 J
Bromodichloromethane	<0.005
Bromoform	<0.005
Carbon tetrachloride	<0.005
Chloroform	<0.005
Dibromochloromethane	<0.005
Methylene chloride	<0.005
Trichloroethene	<0.005

SW-14

Acetone	<0.0239 B
Bromodichloromethane	0.0132 J
Bromoform	0.00187 J
Carbon tetrachloride	<0.005
Chloroform	0.0192 J
Dibromochloromethane	0.0112 J
Methylene chloride	0.0265 J
Trichloroethene	<0.005

LEGEND

- SHEET FLOW
- STORM WATER SUMP/OUTFALL
- STORM WATER POND
- J ESTIMATED
- B DETECTED IN ASSOCIATED BLANK
- (D) ANALYTICAL RESULT FROM DUPLICATE SAMPLE (SW-DUP-01 OR SW-DUP-02) IS PRESENTED.

NOTE: ALL CONCENTRATIONS ARE IN MILLIGRAMS PER LITER (mg/L).

0 200' 400' 800'

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PROJECT MANAGER: DRE	DEPARTMENT MANAGER: DRE
DATE: 05-16-07	TASK/PHASE NUMBER: 0018

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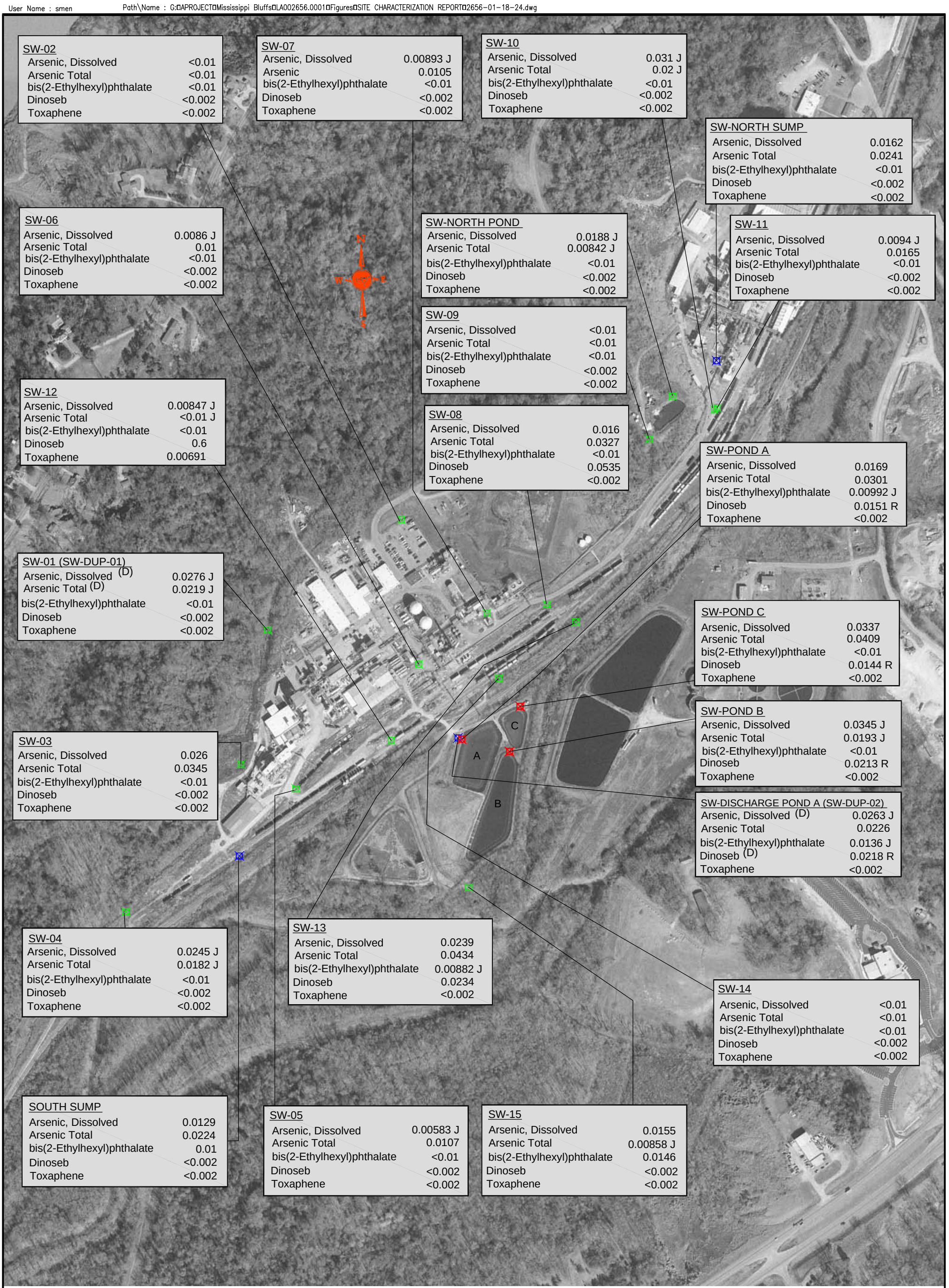
STORM WATER SITE-WIDE VOCs

FORMER VICKSBURG CHEMICAL COMPANY SITE

PROJECT NUMBER: LA002656.0001

DRAWING NUMBER: 23



SW-02

Arsenic, Dissolved	<0.01
Arsenic Total	<0.01
bis(2-Ethylhexyl)phthalate	<0.01
Dinoseb	<0.002
Toxaphene	<0.002

SW-07

Arsenic, Dissolved	0.00893 J
Arsenic	0.0105
bis(2-Ethylhexyl)phthalate	<0.01
Dinoseb	<0.002
Toxaphene	<0.002

SW-10

Arsenic, Dissolved	0.031 J
Arsenic Total	0.02 J
bis(2-Ethylhexyl)phthalate	<0.01
Dinoseb	<0.002
Toxaphene	<0.002

SW-NORTH SUMP

Arsenic, Dissolved	0.0162
Arsenic Total	0.0241
bis(2-Ethylhexyl)phthalate	<0.01
Dinoseb	<0.002
Toxaphene	<0.002

SW-06

Arsenic, Dissolved	0.0086 J
Arsenic Total	0.01
bis(2-Ethylhexyl)phthalate	<0.01
Dinoseb	<0.002
Toxaphene	<0.002

SW-NORTH POND

Arsenic, Dissolved	0.0188 J
Arsenic Total	0.00842 J
bis(2-Ethylhexyl)phthalate	<0.01
Dinoseb	<0.002
Toxaphene	<0.002

SW-11

Arsenic, Dissolved	0.0094 J
Arsenic Total	0.0165
bis(2-Ethylhexyl)phthalate	<0.01
Dinoseb	<0.002
Toxaphene	<0.002

SW-09

Arsenic, Dissolved	<0.01
Arsenic Total	<0.01
bis(2-Ethylhexyl)phthalate	<0.01
Dinoseb	<0.002
Toxaphene	<0.002

SW-12

Arsenic, Dissolved	0.00847 J
Arsenic Total	<0.01 J
bis(2-Ethylhexyl)phthalate	<0.01
Dinoseb	0.6
Toxaphene	0.00691

SW-08

Arsenic, Dissolved	0.016
Arsenic Total	0.0327
bis(2-Ethylhexyl)phthalate	<0.01
Dinoseb	0.0535
Toxaphene	<0.002

SW-POND A

Arsenic, Dissolved	0.0169
Arsenic Total	0.0301
bis(2-Ethylhexyl)phthalate	0.00992 J
Dinoseb	0.0151 R
Toxaphene	<0.002

SW-01 (SW-DUP-01)

Arsenic, Dissolved (D)	0.0276 J
Arsenic Total (D)	0.0219 J
bis(2-Ethylhexyl)phthalate	<0.01
Dinoseb	<0.002
Toxaphene	<0.002

SW-POND C

Arsenic, Dissolved	0.0337
Arsenic Total	0.0409
bis(2-Ethylhexyl)phthalate	<0.01
Dinoseb	0.0144 R
Toxaphene	<0.002

SW-POND B

Arsenic, Dissolved	0.0345 J
Arsenic Total	0.0193 J
bis(2-Ethylhexyl)phthalate	<0.01
Dinoseb	0.0213 R
Toxaphene	<0.002

SW-03

Arsenic, Dissolved	0.026
Arsenic Total	0.0345
bis(2-Ethylhexyl)phthalate	<0.01
Dinoseb	<0.002
Toxaphene	<0.002

SW-DISCHARGE POND A (SW-DUP-02)

Arsenic, Dissolved (D)	0.0263 J
Arsenic Total	0.0226
bis(2-Ethylhexyl)phthalate	0.0136 J
Dinoseb (D)	0.0218 R
Toxaphene	<0.002

SW-04

Arsenic, Dissolved	0.0245 J
Arsenic Total	0.0182 J
bis(2-Ethylhexyl)phthalate	<0.01
Dinoseb	<0.002
Toxaphene	<0.002

SW-13

Arsenic, Dissolved	0.0239
Arsenic Total	0.0434
bis(2-Ethylhexyl)phthalate	0.00882 J
Dinoseb	0.0234
Toxaphene	<0.002

SW-14

Arsenic, Dissolved	<0.01
Arsenic Total	<0.01
bis(2-Ethylhexyl)phthalate	<0.01
Dinoseb	<0.002
Toxaphene	<0.002

SOUTH SUMP

Arsenic, Dissolved	0.0129
Arsenic Total	0.0224
bis(2-Ethylhexyl)phthalate	0.01
Dinoseb	<0.002
Toxaphene	<0.002

SW-05

Arsenic, Dissolved	0.00583 J
Arsenic Total	0.0107
bis(2-Ethylhexyl)phthalate	<0.01
Dinoseb	<0.002
Toxaphene	<0.002

SW-15

Arsenic, Dissolved	0.0155
Arsenic Total	0.00858 J
bis(2-Ethylhexyl)phthalate	0.0146
Dinoseb	<0.002
Toxaphene	<0.002

LEGEND

- SHEET FLOW
- STORM WATER SUMP/OUTFALL
- STORM WATER POND
- R REJECTED
- J ESTIMATED

NOTE:

ALL CONCENTRATIONS ARE IN MILLIGRAMS PER LITER (mg/L).

(D) ANALYTICAL RESULT FROM DUPLICATE SAMPLE (SW-DUP-01 OR SW-DUP-02) IS PRESENTED.

0 200' 400' 800'

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PROJECT MANAGER: DRE	DEPARTMENT MANAGER: DRE
DATE: 05-16-07	TASK/PHASE NUMBER: 0018

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STORM WATER SVOCs, ARSENIC, DINOSEB, AND TOXAPHENE

FORMER VICKSBURG CHEMICAL COMPANY SITE

PROJECT NUMBER: LA002656.0001

DRAWING NUMBER: 24

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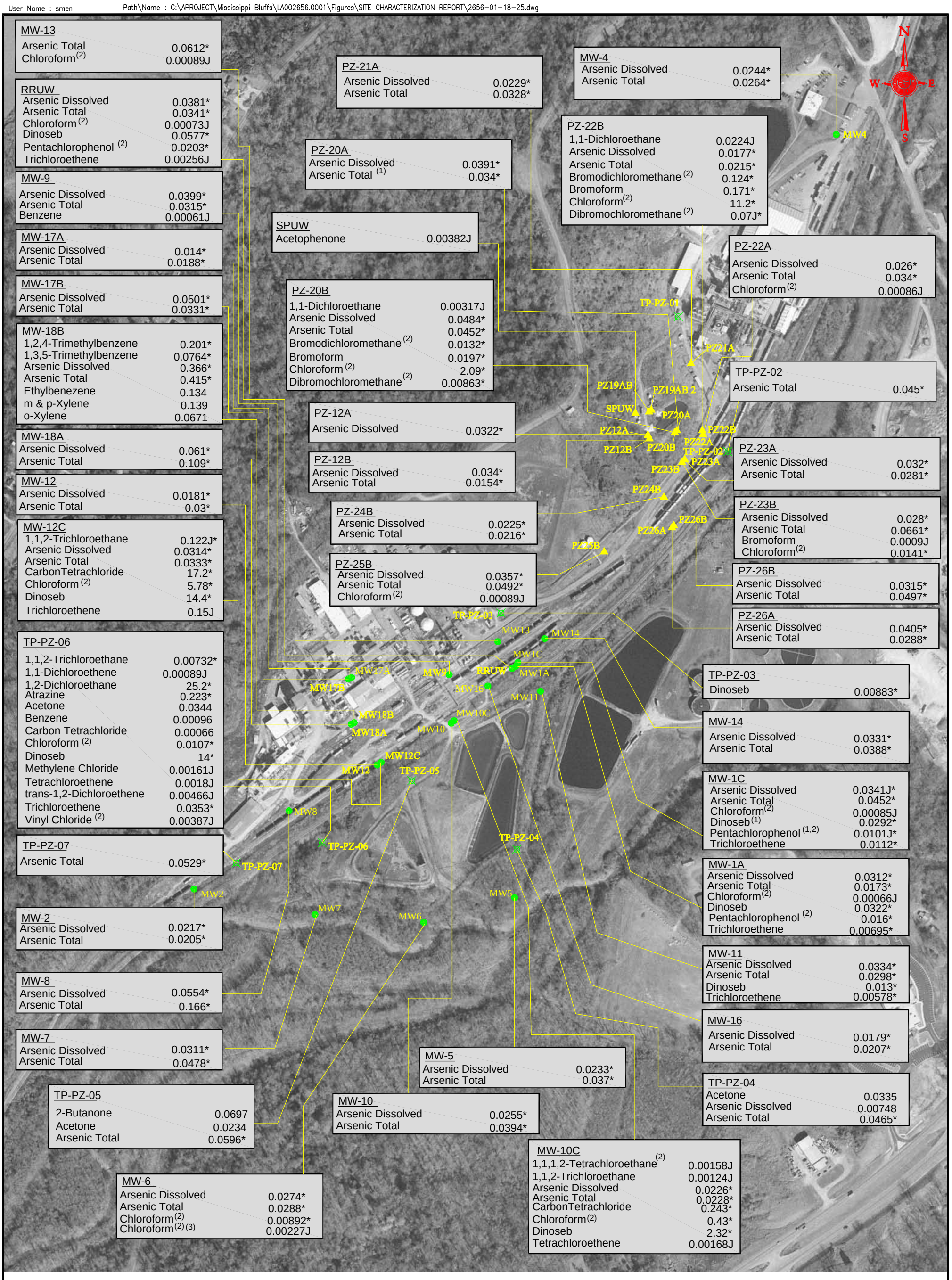

MW-13

Arsenic Total	0.0612*
Chloroform (2)	0.00089J

RRUW

Arsenic Dissolved	0.0381*
Arsenic Total	0.0341*
Chloroform (2)	0.00073J
Dinoseb	0.0577*
Pentachlorophenol (2)	0.0203*
Trichloroethene	0.00256J

MW-9

Arsenic Dissolved	0.0399*
Arsenic Total	0.0315*
Benzene	0.00061J

MW-17A

Arsenic Dissolved	0.014*
Arsenic Total	0.0188*

MW-17B

Arsenic Dissolved	0.0501*
Arsenic Total	0.0331*

MW-18B

1,2,4-Trimethylbenzene	0.201*
1,3,5-Trimethylbenzene	0.0764*
Arsenic Dissolved	0.366*
Arsenic Total	0.415*
Ethylbenezene	0.134
m & p-Xylene	0.139
o-Xylene	0.0671

MW-18A

Arsenic Dissolved	0.061*
Arsenic Total	0.109*

MW-12

Arsenic Dissolved	0.0181*
Arsenic Total	0.03*

MW-12C

1,1,2-Trichloroethane	0.122J*
Arsenic Dissolved	0.0314*
Arsenic Total	0.0333*
CarbonTetrachloride	17.2*
Chloroform (2)	5.78*
Dinoseb	14.4*
Trichloroethene	0.15J

TP-PZ-06

1,1,2-Trichloroethane	0.00732*
1,1-Dichloroethene	0.00089J
1,2-Dichloroethane	25.2*
Atrazine	0.223*
Acetone	0.0344
Benzene	0.00096
Carbon Tetrachloride	0.00066
Chloroform (2)	0.0107*
Dinoseb	14*
Methylene Chloride	0.00161J
Tetrachloroethene	0.0018J
trans-1,2-Dichloroethene	0.00466J
Trichloroethene	0.0353*
Vinyl Chloride (2)	0.00387J

TP-PZ-07

Arsenic Total	0.0529*

MW-2

Arsenic Dissolved	0.0217*
Arsenic Total	0.0205*

MW-8

Arsenic Dissolved	0.0554*
Arsenic Total	0.166*

MW-7

Arsenic Dissolved	0.0311*
Arsenic Total	0.0478*

TP-PZ-05

2-Butanone	0.0697
Acetone	0.0234
Arsenic Total	0.0596*

MW-6

Arsenic Dissolved	0.0274*
Arsenic Total	0.0288*
Chloroform (2)	0.00892*
Chloroform (2) (3)	0.00227J

PZ-21A

Arsenic Dissolved	0.0229*
Arsenic Total	0.0328*

PZ-20A

Arsenic Dissolved	0.0391*
Arsenic Total (1)	0.034*

SPUW

Acetophenone	0.00382J

PZ-20B

1,1-Dichloroethane	0.00317J
Arsenic Dissolved	0.0484*
Arsenic Total	0.0452*
Bromodichloromethane (2)	0.0132*
Bromoform	0.0197*
Chloroform (2)	2.09*
Dibromochloromethane (2)	0.00863*

PZ-12A

Arsenic Dissolved	0.0322*

PZ-12B

Arsenic Dissolved	0.034*
Arsenic Total	0.0154*

PZ-24B

Arsenic Dissolved	0.0225*
Arsenic Total	0.0216*

PZ-25B

Arsenic Dissolved	0.0357*
Arsenic Total	0.0492*
Chloroform (2)	0.00089J

MW-5

Arsenic Dissolved	0.0233*
Arsenic Total	0.037*

MW-10

Arsenic Dissolved	0.0255*
Arsenic Total	0.0394*

MW-4

Arsenic Dissolved	0.0244*
Arsenic Total	0.0264*

PZ-22B

1,1-Dichloroethane	0.0224J
Arsenic Dissolved	0.0177*
Arsenic Total	0.0215*
Bromodichloromethane (2)	0.124*
Bromoform	0.171*
Chloroform (2)	11.2*
Dibromochloromethane (2)	0.07J*

PZ-22A

Arsenic Dissolved	0.026*
Arsenic Total	0.034*
Chloroform (2)	0.00086J

TP-PZ-02

Arsenic Total	0.045*

PZ-23A

Arsenic Dissolved	0.032*
Arsenic Total	0.0281*

PZ-23B

Arsenic Dissolved	0.028*
Arsenic Total	0.0661*
Bromoform	0.0009J
Chloroform (2)	0.0141*

PZ-26B

Arsenic Dissolved	0.0315*
Arsenic Total	0.0497*

PZ-26A

Arsenic Dissolved	0.0405*
Arsenic Total	0.0288*

TP-PZ-03

Dinoseb	0.00883*

MW-14

Arsenic Dissolved	0.0331*
Arsenic Total	0.0388*

MW-1C

Arsenic Dissolved	0.0341J*
Arsenic Total	0.0452*
Chloroform (2)	0.00085J
Dinoseb (1)	0.0292*
Pentachlorophenol (1,2)	0.0101J*
Trichloroethene	0.0112*

MW-1A

Arsenic Dissolved	0.0312*
Arsenic Total	0.0173*
Chloroform (2)	0.00066J
Dinoseb	0.0322*
Pentachlorophenol (2)	0.016*
Trichloroethene	0.00695*

MW-11

Arsenic Dissolved	0.0334*
Arsenic Total	0.0298*
Dinoseb	0.013*
Trichloroethene	0.00578*

MW-16

Arsenic Dissolved	0.0179*
Arsenic Total	0.0207*

TP-PZ-04

Acetone	0.0335
Arsenic Dissolved	0.00748
Arsenic Total	0.0465*

MW-10C

1,1,1,2-Tetrachloroethane (2)	0.00158J
1,1,2-Trichloroethane	0.00124J
Arsenic Dissolved	0.0226*
Arsenic Total	0.0228*
CarbonTetrachloride	0.243*
Chloroform (2)	0.43*
Dinoseb	2.32*
Tetrachloroethene	0.00168J

0 200' 400' 800'

LEGEND

J — ESTIMATED VALUE

ALL CONCENTRATIONS ARE IN MILLIGRAMS PER LITER (mg/L).

* — CONCENTRATION EXCEEDS MDEQ TIER 1 TRG. FOR ARSENIC, THE ANALYTICAL RESULT WAS COMPARED TO THE USEPA MANDATED MCL.

(1) — ANALYTICAL RESULT FROM DUPLICATE SAMPLE [DUP02 (020707)] IS PRESENTED FOR MW-1C. ANALYTICAL RESULT FROM DUPLICATE SAMPLE [DUP-01(013107)] FOR PZ-20A IS PRESENTED.

(2) — BECAUSE THE MDEQ TIER 1 TRG IS LESS THAN THE LABORATORY REPORTING LIMIT (RL), THE RL IS USED AS THE SCREENING VALUE.

(3) — ANALYTICAL RESULT FROM A RESAMPLING EVENT

MW5 — MONITOR WELL LOCATION AND DESIGNATION

PZ22A — PIEZOMETER LOCATION AND DESIGNATION

TP-PZ-01 — TEMPORARY GROUNDWATER SAMPLING LOCATION AND DESIGNATION

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PROJECT MANAGER: DRE	DEPARTMENT MANAGER: DRE
DATE: 3-21-07	TASK/PHASE NUMBER: 0018

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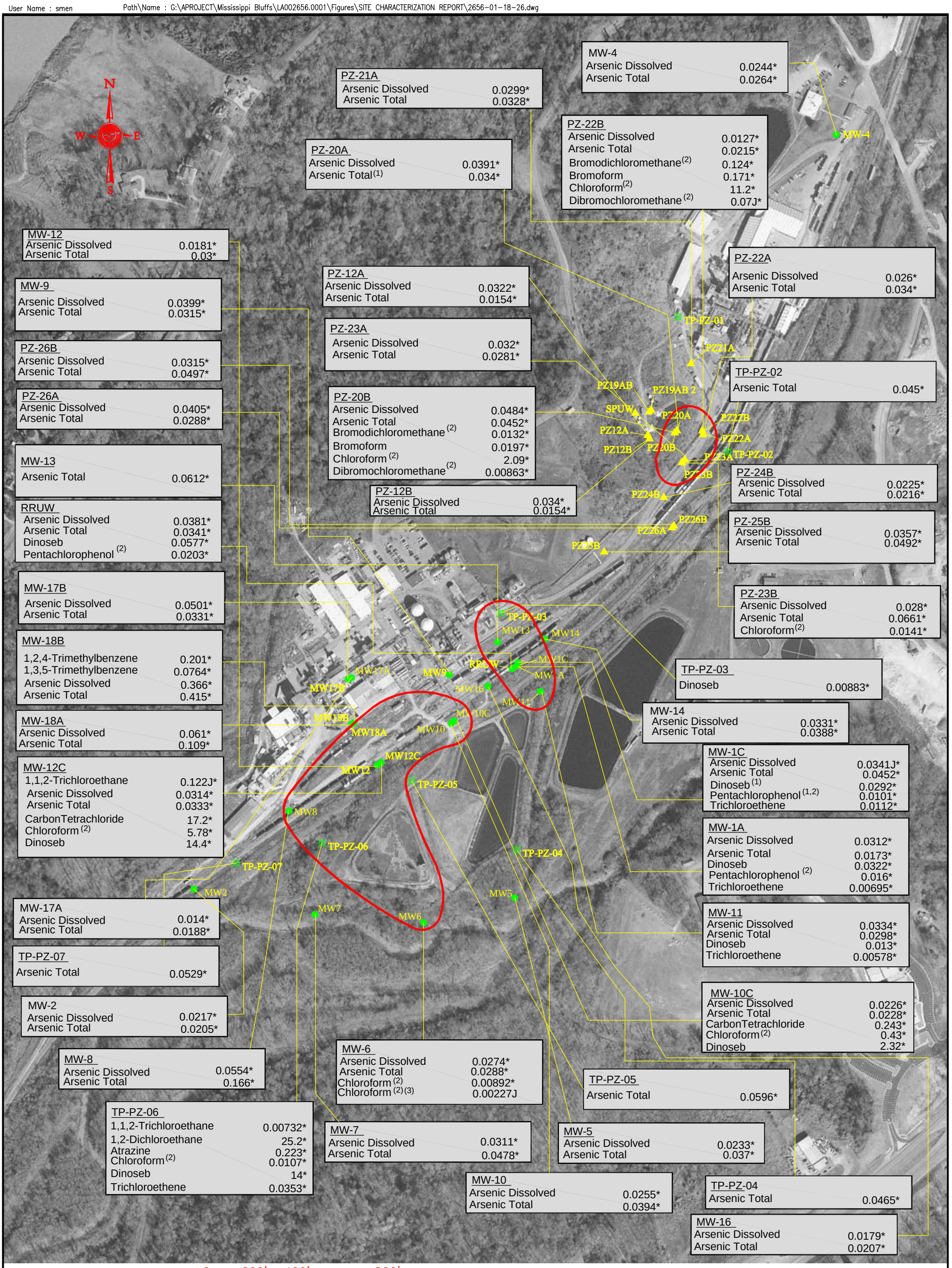
DETECTED GROUNDWATER CONCENTRATIONS

FORMER VICKSBURG CHEMICAL COMPANY SITE

PROJECT NUMBER: LA002656.0001

DRAWING NUMBER: 25

User Name : smen Path\Name : G:\APROJECT\Mississippi Bluffs\LA002656.0001\Figures\SITE CHARACTERIZATION REPORT\2656-01-18-26.dwg



LEGEND

0 200' 400' 800'

J ESTIMATED VALUE

ALL CONCENTRATIONS ARE IN MILLIGRAMS PER LITER. (mg/L)

* CONCENTRATION EXCEEDS MDEQ TIER 1 TRG

B ANALYTE WAS DETECTED IN THE METHOD BLANK.

(1) ANALYTICAL RESULT FROM DUPLICATE SAMPLE [DUP02 (020707)] IS PRESENTED FOR MW-1C. ANALYTICAL RESULT FROM DUPLICATE SAMPLE [DUP-01(013107)] FOR PZ-20A IS PRESENTED.

NOTE: ARSENIC CONCENTRATIONS NOT CONTOURED ON THIS MAP.

(2) BECAUSE THE MDEQ TIER 1 TRG IS LESS THAN THE LABORATORY REPORTING LIMIT (RL), THE RL IS USED AS THE SCREENING VALUE.

(3) RESAMPLE INDICATED ALL CONCENTRATIONS WERE BELOW MDEQ TIER 1 TRGs.

AREA EXCEEDING MDEQ TIER 1 TRGs

MW5 MONITOR WELL LOCATION AND DESIGNATION

PZ22A PIEZOMETER LOCATION AND DESIGNATION

TP-PZ-01 TEMPORARY GROUNDWATER SAMPLING LOCATION AND DESIGNATION

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PROJECT MANAGER	DEPARTMENT MANAGER
DRE	DRE
DATE	TASK/PHASE NUMBER
3-21-07	0018

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EXTENT OF GROUNDWATER CONCENTRATIONS ABOVE MDEQ TIER 1 TRGs (EXCEPT ARSENIC)

FORMER VICKSBURG CHEMICAL COMPANY SITE

PROJECT NUMBER LA002656.0001

DRAWING NUMBER 26

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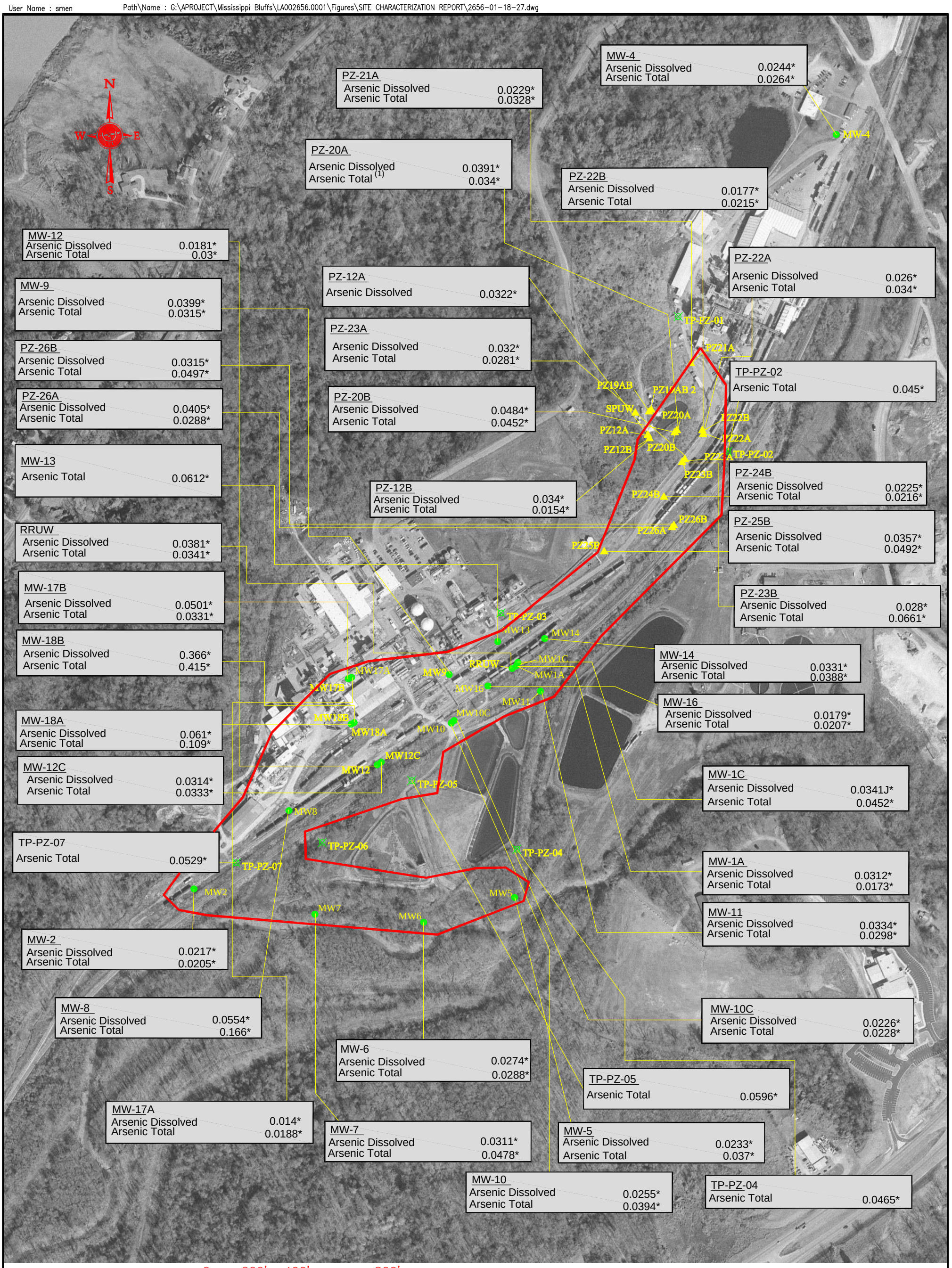

LEGEND

0 200' 400' 800'

J ESTIMATED VALUE

ALL CONCENTRATIONS ARE IN MILLIGRAMS PER LITER. (mg/L)

* CONCENTRATION EXCEEDS EPA MANDATED MCL

(1) ANALYTICAL RESULT FROM DUPLICATE SAMPLE [DUP-01(013107)] FOR PZ-20A IS PRESENTED.

NOTE: FOR ARSENIC CONCENTRATIONS, THE GREATER OF THE TWO VALUES (TOTAL OR DISSOLVED) IS SHOWN.

AREA EXCEEDING EPA MANDATED MCL.

MW5 MONITOR WELL LOCATION AND DESIGNATION

PZ22A PIEZOMETER LOCATION AND DESIGNATION

TP-PZ-01 TEMPORARY GROUNDWATER SAMPLING LOCATION AND DESIGNATION

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ARSENIC GROUNDWATER ISOCONCENTRATIONS ABOVE MAXIMUM CONTAMINANT LEVEL (MCL)

FORMER VICKSBURG CHEMICAL COMPANY SITE

PROJECT NUMBER LA002656.0001

DRAWING NUMBER 27

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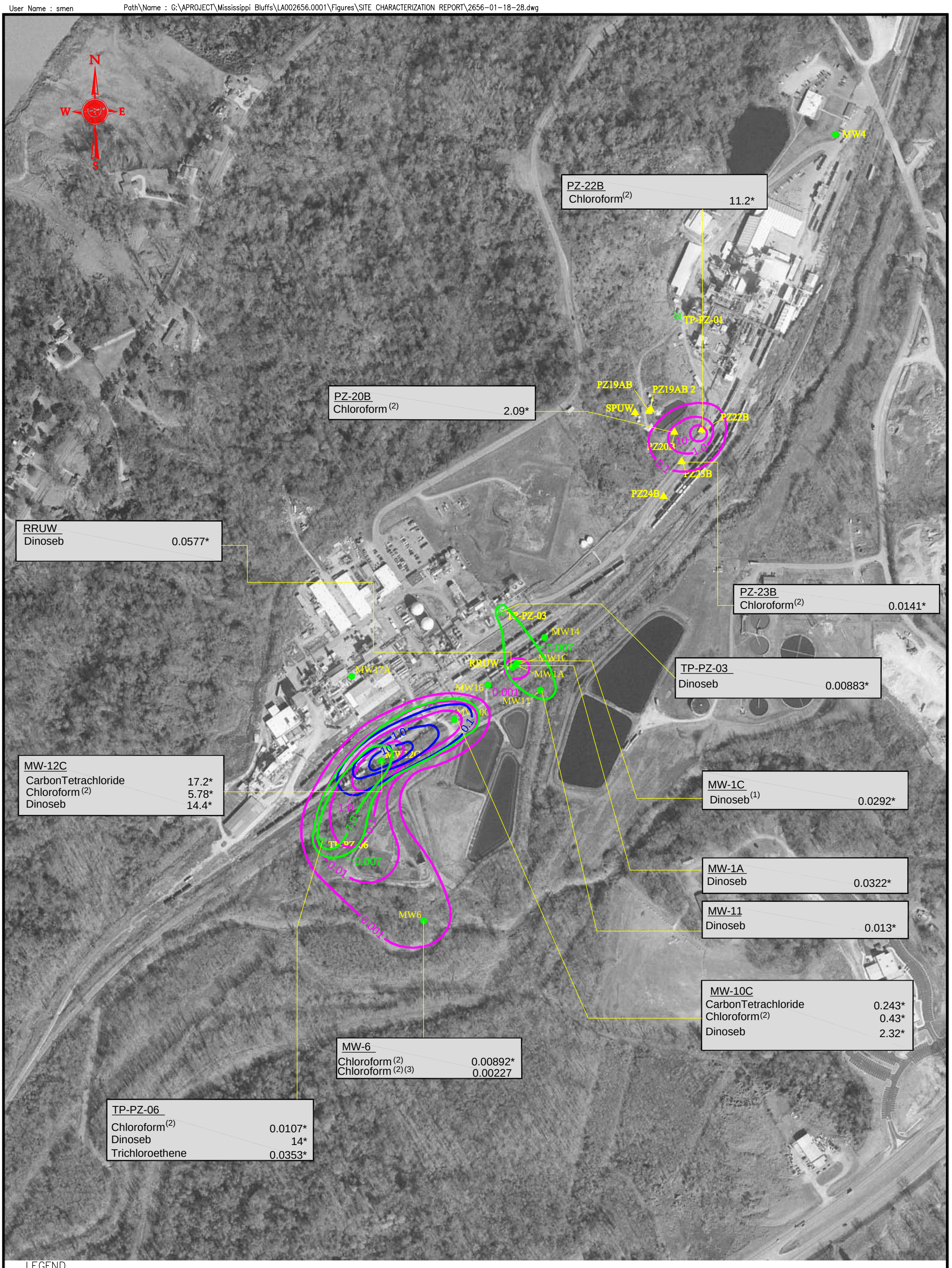

LEGEND

* ALL CONCENTRATIONS ARE IN MILLIGRAMS PER LITER. (mg/L)
* CONCENTRATION EXCEEDS MDEQ TIER 1 TRG

(1) ANALYTICAL RESULT FROM DUPLICATE SAMPLE [DUP02 (020707)] IS PRESENTED FOR MW-1C.

1.0 CHLOROFORM ISOCONCENTRATION
1.0 CARBON TETRACHLORIDE ISOCONCENTRATION
0.007 DINOSEB ISOCONCENTRATION

NOTE: ARSENIC CONCENTRATIONS NOT CONTOURED ON THIS MAP.
(2) BECAUSE THE MDEQ TIER 1 TRG IS LESS THAN THE LABORATORY REPORTING LIMIT (RL), THE RL IS USED AS THE SCREENING VALUE.
(3) RESAMPLE INDICATED ALL CONCENTRATIONS WERE BELOW MDEQ TIER 1 TRGs.

0 200' 400' 800'

MW5 MONITOR WELL LOCATION AND DESIGNATION
PZ22A PIEZOMETER LOCATION AND DESIGNATION
TP-PZ-01 TEMPORARY GROUNDWATER SAMPLING LOCATION AND DESIGNATION

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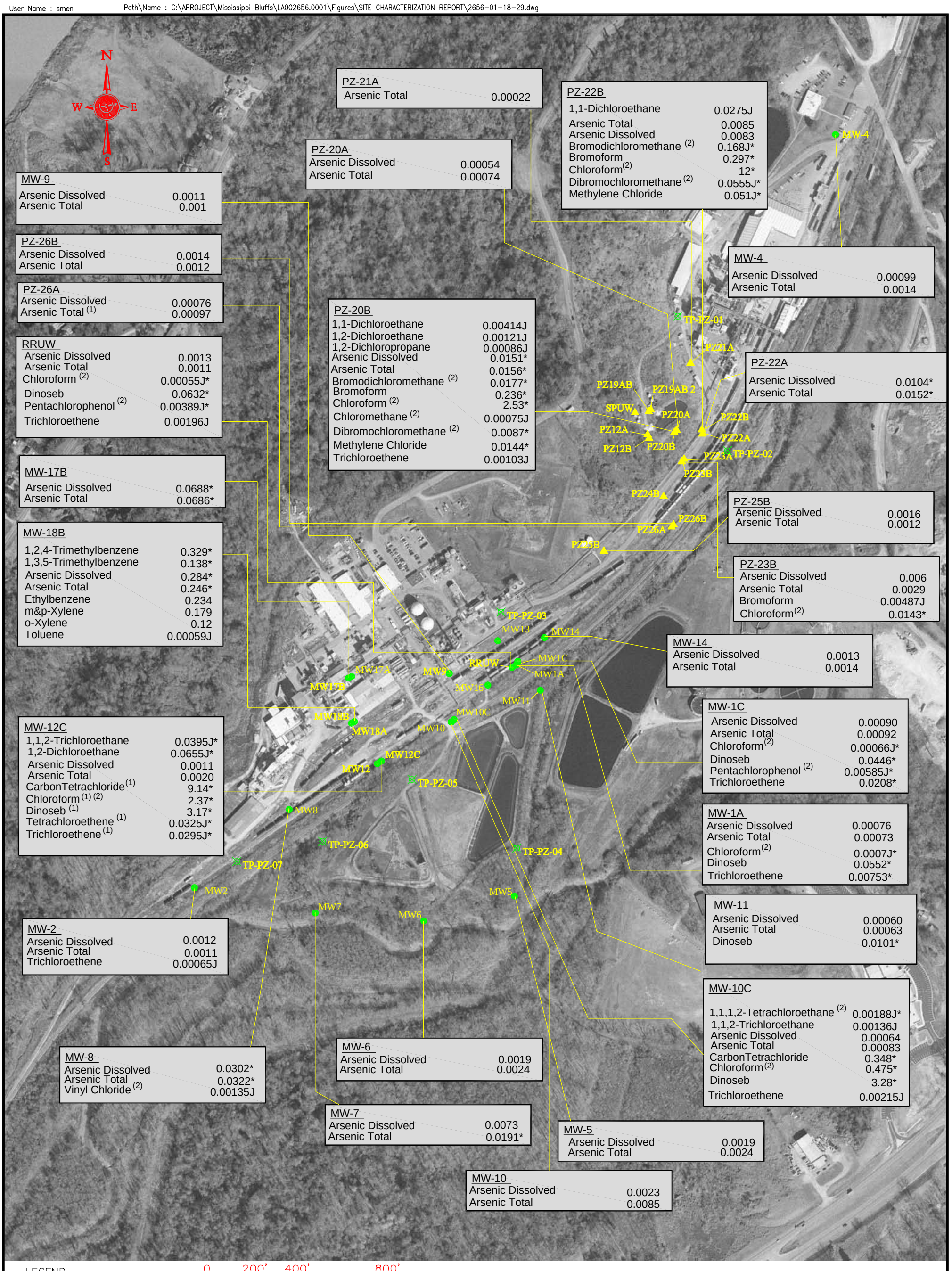
GROUNDWATER CARBON TETRACHLORIDE, CHLOROFORM, AND DINOSEB ISOCONCENTRATION MAP

FORMER VICKSBURG CHEMICAL COMPANY SITE

PROJECT NUMBER: LA002656.0001
DRAWING NUMBER: 28



LEGEND

J ESTIMATED VALUE

ALL CONCENTRATIONS ARE IN MILLIGRAMS PER LITER. (mg/L)

* CONCENTRATION EXCEEDS MDEQ TIER 1 TRG

(1) ANALYTICAL RESULT FROM DUPLICATE SAMPLE [DUP-02] IS PRESENTED FOR PZ-26A. ANALYTICAL RESULT FROM DUPLICATE SAMPLE [DUP-01] FOR MW-12C IS PRESENTED.

(2) BECAUSE THE MDEQ TIER 1 TRG IS LESS THAN THE LABORATORY REPORTING LIMIT (RL), THE RL IS USED AS THE SCREENING VALUE.

MW5 MONITOR WELL LOCATION AND DESIGNATION

PZ22A PIEZOMETER LOCATION AND DESIGNATION

TP-PZ-01 TEMPORARY GROUNDWATER SAMPLING LOCATION AND DESIGNATION

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MARCH 2008 DETECTED GROUNDWATER CONCENTRATIONS

FORMER VICKSBURG CHEMICAL COMPANY SITE

PROJECT NUMBER: LA002656.0001

DRAWING NUMBER: 29

User Name : smen

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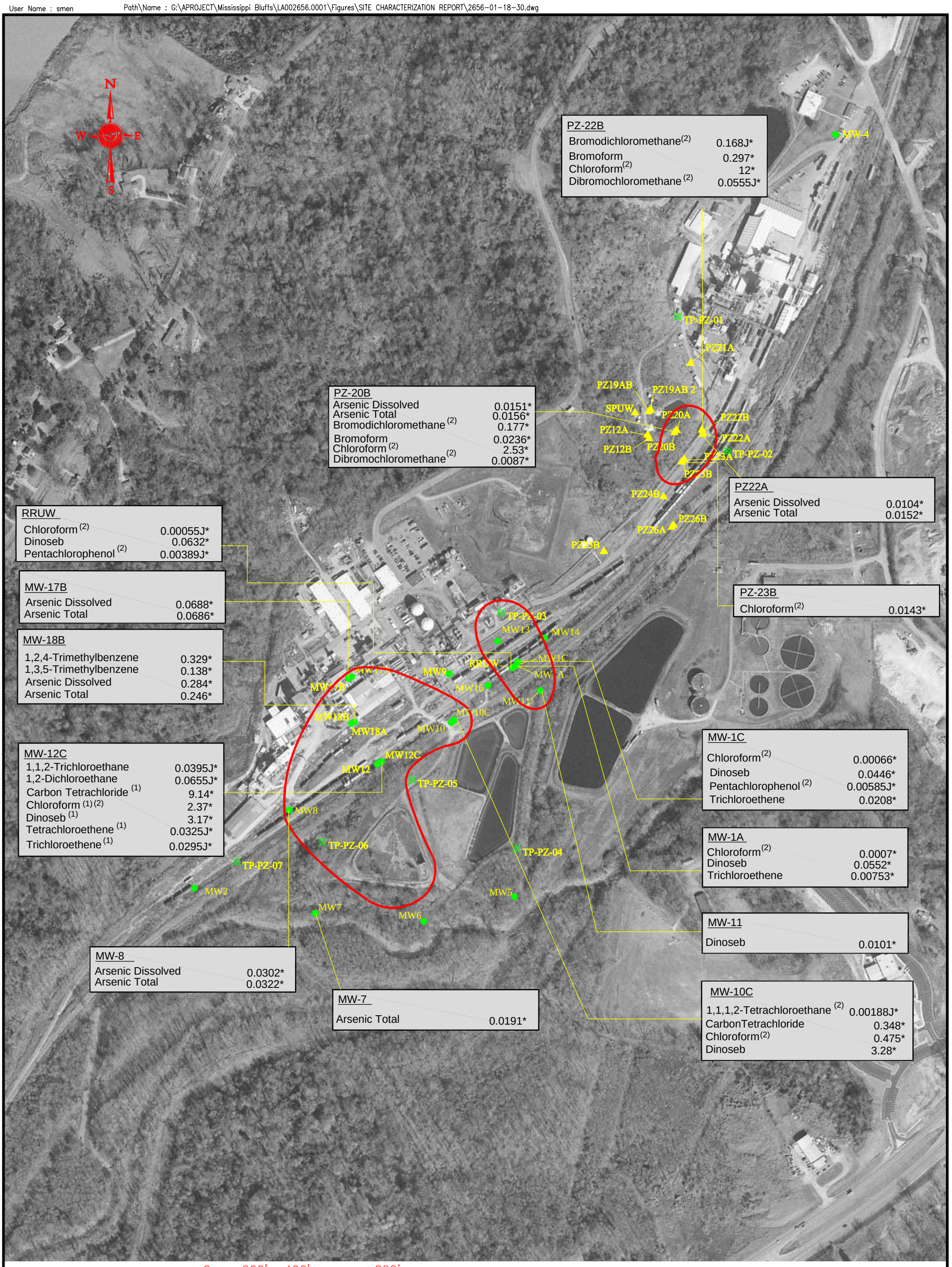

LEGEND

0 200' 400' 800'

J ESTIMATED VALUE

ALL CONCENTRATIONS ARE IN MILLIGRAMS PER LITER. (mg/L)

* CONCENTRATION EXCEEDS MDEQ TIER 1 TRG (ARSENIC EXCEEDS EPA MANDATED MCL)

(1) ANALYTICAL RESULT FROM DUPLICATE SAMPLE [DUP-01] IS PRESENTED FOR MW-12C.

(2) BECAUSE THE MDEQ TIER 1 TRG IS LESS THAN THE LABORATORY REPORTING LIMIT (RL), THE RL IS USED AS THE SCREENING VALUE.

AREA EXCEEDING MDEQ TIER 1 TRGs

MW6 MONITOR WELL LOCATION AND DESIGNATION

PZ22A PIEZOMETER LOCATION AND DESIGNATION

TP-PZ-01 TEMPORARY GROUNDWATER SAMPLING LOCATION AND DESIGNATION

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MARCH 2008
GROUNDWATER CONCENTRATIONS ABOVE MDEQ TIER 1 TRGs

FORMER VICKSBURG CHEMICAL COMPANY SITE

PROJECT NUMBER
LA002656.0001

DRAWING NUMBER
30

User Name : smen

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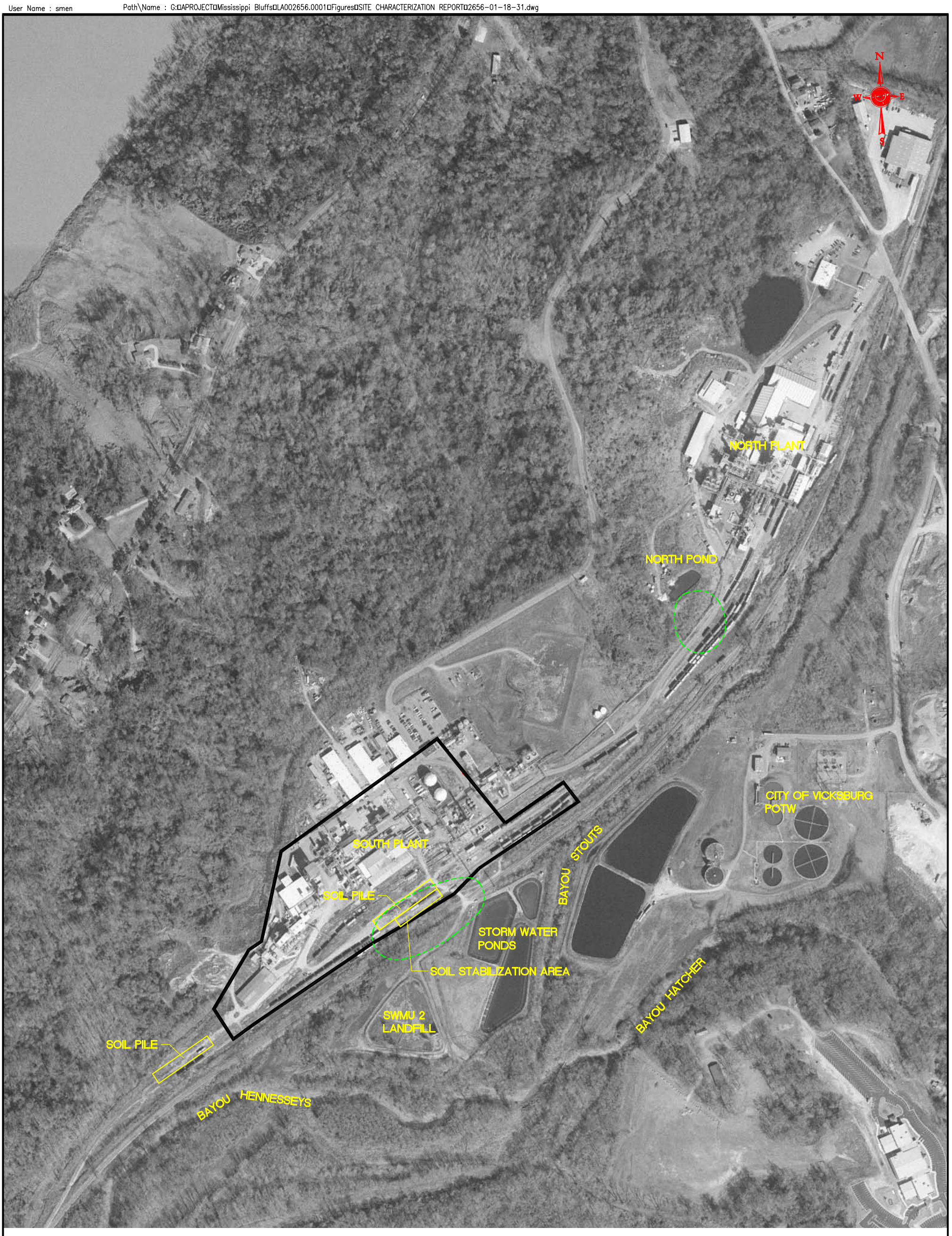

LEGEND

PROPOSED PLANT SOIL CAP BOUNDARY (AREA DELINEATED)

POTENTIAL IN-SITU REMEDIATION AREA

0 200' 400' 800'

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REMEDIAL OPTION 3 MAP

FORMER VICKSBURG CHEMICAL COMPANY SITE

PROJECT NUMBER
LA002656.0001

DRAWING NUMBER
31

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Appendix A

Sample/Core Logs

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SAMPLE / CORE LOG

Boring/Well: GP-SB-01 Project No.: LA002656.0001.00012/Mississippi Bluffs

Site Location: Vicksburg, Mississippi Drilling Started: 2/13/07 0915 Drilling Completed: 2/13/07 0930

Land-Surface Elev.: NA Surveyed: NA Estimated: ____ Datum: NA

Drilling Fluid: None Drilling Method Used: Geoprobe

Drilling Contractor: Devonian Driller: Lonny Helper: DeWayne

Prepared By: K. Montgomery Hammer Weight: NA Hammer Drop (inches): NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
0				SILT: Ferrous tan, damp, very very fine, occasional gravel					
1				- dry (powdery)					
2		3.5		- medium gray, dry (powdery)				1.3	Sample
3				- trace of clay (stiff, but friable)					
4				CLAYEY SILT: (30%) medium gray, wood fragments, soft, damp				1.9	Sample
5				SILTY CLAY: (30%) medium gray, soft, trace of natural organics		0.5	0.5		
6		4						3.8	
7				CLAYEY SILT: (20%) ferrous stained tan, stiff, damp, very fine					
8								1.4	
9				SILT: (Trace of clay) damp, friable, very fine					
10		4		- grayish brown				2.0	
11				CLAYEY SILT: (30%) (trace of natural organics), damp, soft					
12				- Total Depth 12 ft bls - Background OVM 0.1 ppm				2.3	
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									

ARCADIS U.S., Inc.
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Baton Rouge, LA 70816

SAMPLE / CORE LOG

Boring/Well: GP-SB-02 **Project No.:** LA002656.0001.00012/Mississippi Bluffs

Site Location: Vicksburg, Mississippi **Drilling Started:** 2/13/07 0940 **Drilling Completed:** 2/13/07 1000

Land-Surface Elev.: NA **Surveyed:** NA **Estimated:** ____ **Datum:** NA

Drilling Fluid: None **Drilling Method Used:** Geoprobe

Drilling Contractor: Devonian **Driller:** Lonny **Helper:** DeWayne

Prepared By: K. Montgomery **Hammer Weight:** NA **Hammer Drop (inches):** NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
0									
1				FILL: Rocks/gravel, silt/sand/clay					
2		3.0		SILTY CLAY: (40%) trace of gravel, wet, soft, brown					
3								1.5	Sample
4				- less gravel, soft, moist, green-brown					
5								1.3	Sample
6		4		CLAYEY SILT: (30%) damp, brown/tan, friable, dense					
7								14.0	
8				- ferrous orange/tan, friable, dense 70% clay					
9								1.5	
10		4							
11								1.5	
12				- orangish brown, hard but friable					
13				- Total Depth 12 ft bls - Background OVM-0.1 ppm				1.8	
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									

ARCADIS U.S., Inc.
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SAMPLE / CORE LOG

Boring/Well: GP-SB-03 **Project No.:** LA002656.0001.00012/Mississippi Bluffs

Site Location: Vicksburg, Mississippi **Drilling Started:** 2/13/07 1010 **Drilling Completed:** 2/13/07 1030

Land-Surface Elev.: NA **Surveyed:** NA **Estimated:** ____ **Datum:** NA

Drilling Fluid: None **Drilling Method Used:** Geoprobe

Drilling Contractor: Devonian **Driller:** Lonny **Helper:** DeWayne

Prepared By: K. Montgomery **Hammer Weight:** NA **Hammer Drop (inches):** NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
0–1				FILL: Asphalt FILL: Road bed					
2–3		4		SILT: Brown, hard, friable, dry				1.8	
3–4				CLAYEY SILT: (20%) orangish tan, soft, loose (less dense)					
4–5				- (30%) brown, dry, hard				1.8	Sample
5–6				- (20%) orangish brown, hard, friable					
6–7		4						1.7	Sample
7–8				- (40%) orangish brown, dense					
8–9								1.3	
9–10				SILTY CLAY: (30%) soft, damp to moist, brown		0.5	0.5		
10–11		4		- gray, very moist				1.8	
11–12				CLAYEY SILT: (30%) dense, friable, tan streaks with orange brown					
12–13				- Total Depth 12 ft bls - Background OVM-0.1 ppm				1.9	
13–25									

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SAMPLE / CORE LOG

Boring/Well: GP-SB-04 **Project No.:** LA002656.0001.00012/Mississippi Bluffs

Site Location: Vicksburg, Mississippi **Drilling Started:** 2/13/07 1040 **Drilling Completed:** 2/13/07 1110

Land-Surface Elev.: NA **Surveyed:** NA **Estimated:** ____ **Datum:** NA

Drilling Fluid: None **Drilling Method Used:** Geoprobe

Drilling Contractor: Devonian **Driller:** Lonny **Helper:** DeWayne

Prepared By: K. Montgomery **Hammer Weight:** NA **Hammer Drop (inches):** NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
0–1				FILL: Asphalt FILL: Road bed (gravel and sand)					
2–4		4		CLAYEY SILT: (30%) dark green-gray, dense, friable, very fine				5.1	
4–5				- damp, brown, softer, trace of rootlets (wood fragments)				7.6	Sample
5–7		3.75		SILTY CLAY: (30%) orangish brown, moist, soft		0.5	0.5	7.9	Sample
7–10				- (40%) orange brown, wet, very soft		< 0.25	< 0.25	8.8	
10–11		3.5		CLAYEY SILT: (30%) wet, light tan, soft, very fine		0.25	0.25	9.5	
11–12				- Total Depth 12 ft bls - Background OVM-0.1 ppm				3.6	
12–25									

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SAMPLE / CORE LOG

Boring/Well: GP-SB-05 **Project No.:** LA002656.0001.00012/Mississippi Bluffs

Site Location: Vicksburg, Mississippi **Drilling Started:** 2/13/07 1120 **Drilling Completed:** 2/13/07 1150

Land-Surface Elev.: NA **Surveyed:** NA **Estimated:** ____ **Datum:** NA

Drilling Fluid: None **Drilling Method Used:** Geoprobe

Drilling Contractor: Devonian **Driller:** Lonny **Helper:** DeWayne

Prepared By: K. Montgomery **Hammer Weight:** NA **Hammer Drop (inches):** NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | ⧖ Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | ⧗ Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
0				FILL: Asphalt (road bed, coarse red sand, gravel etc.)					
1				CLAYEY SILT: (20%) brown, soft, dry to damp					
2		4						6.5	Sample
3				- (30%) light orangish tan, very moist, very fine					Sample
4				- wet, very soft (spongy)				5.3	⧖
5									
6		4		- wet, very soft (spongy)				2.1	
7									
8				- wet, very soft (spongy)				1.8	
9									
10		4		- wet, increasing clay, (40%), (spongy), soft				1.8	
11									
12				- wet, (40% clay), soft, (spongy)				1.0	
13				- Total Depth 12 ft bls - Background OVM-0.1 ppm					
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									

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SAMPLE / CORE LOG

Boring/Well: GP-SB-06 **Project No.:** LA002656.0001.00012/Mississippi Bluffs

Site Location: Vicksburg, Mississippi **Drilling Started:** 2/13/07 1200 **Drilling Completed:** 2/13/07 1230

Land-Surface Elev.: NA **Surveyed:** NA **Estimated:** ____ **Datum:** NA

Drilling Fluid: None **Drilling Method Used:** Geoprobe

Drilling Contractor: Devonian **Driller:** Lonny **Helper:** DeWayne

Prepared By: K. Montgomery **Hammer Weight:** NA **Hammer Drop (inches):** NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
0				FILL: Asphalt (gravel/sand/red brown sand)					
1				CLAYEY SILT: (20%) dry, dense, brown					
2		4						1.30	Sample
3				- (30%) tan/brown mottling, very moist					
4				- wet seam, slightly spongy				1.60	Sample
5				- clayey (30%) spongy, wet, brown					▽
6		4						2.50	
7				- clay increasing (40%)					
8								2.50	
9				- tan, wet, spongy					
10		3.75		- ferrous red/orange seam				2.50	
11									
12				- Total Depth 12 ft bls				1.70	
13				- Background OVM-0.1 ppm					
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									

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SAMPLE / CORE LOG

Boring/Well: GP-SB-07 **Project No.:** LA002656.0001.00012/Mississippi Bluffs

Site Location: Vicksburg, Mississippi **Drilling Started:** 2/13/07 1400 **Drilling Completed:** 2/13/07 1430

Land-Surface Elev.: NA **Surveyed:** NA **Estimated:** ____ **Datum:** NA

Drilling Fluid: None **Drilling Method Used:** Geoprobe

Drilling Contractor: Devonian **Driller:** Lonny **Helper:** DeWayne

Prepared By: K. Montgomery **Hammer Weight:** NA **Hammer Drop (inches):** NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | ⧖ Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | ⧗ Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
0				FILL: Gravel/sand/silt, dark gray-black, moist					
1				SILT: Light orangish tan, dry, loose, trace of clay					
2		4		CLAYEY SILT: (30%) light orangish brown, very moist, very soft				0.4	Collected DUP-01 Sample here
3									
4				- spongy				1.0	Sample
5				SILTY CLAY: (40%), light tan with orangish tint, wet, spongy					⧖
6		4						1.0	
7				- saturated, spongy					
8								0.7	
9				CLAYEY SILT: (30%) light tan/brown, wet, spongy					
10		4						0.7	
11				- black flecks of natural organics					
12				- Total Depth 12 ft bls				0.9	
13				- Background OVM-0.1 ppm					
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									

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SAMPLE / CORE LOG

Boring/Well: GP-SB-08 **Project No.:** LA002656.0001.00012/Mississippi Bluffs

Site Location: Vicksburg, Mississippi **Drilling Started:** 2/13/07 1440 **Drilling Completed:** 2/13/07 1510

Land-Surface Elev.: NA **Surveyed:** NA **Estimated:** ____ **Datum:** NA

Drilling Fluid: None **Drilling Method Used:** Geoprobe

Drilling Contractor: Devonian **Driller:** Lonny **Helper:** DeWayne

Prepared By: K. Montgomery **Hammer Weight:** NA **Hammer Drop (inches):** NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
0–2		4		FILL: Gravel/sand					
2–4				SILT: Light brown, damp				0.8	Sample collected MS/MSD
4–5				CLAYEY SILT: (30%) brown, soft, wet				0.8	Sample
5–6				- orangish brown, spongy, very fine, very soft					
6–8		4						1.1	
8–9				- orangish tan, saturated, spongy				1.2	
9–12		4						1.0	
12				- Total Depth 12 ft bls - Background OVM-0.1 ppm				0.8	

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SAMPLE / CORE LOG

Boring/Well: GP-SB-09 Project No.: LA002656.0001.00012/Mississippi Bluffs

Site Location: Vicksburg, Mississippi Drilling Started: 2/13/07 1540 Drilling Completed: 2/13/07 1600

Land-Surface Elev.: NA Surveyed: NA Estimated: ____ Datum: NA

Drilling Fluid: None Drilling Method Used: Geoprobe

Drilling Contractor: Devonian Driller: Lonny Helper: DeWayne

Prepared By: K. Montgomery Hammer Weight: NA Hammer Drop (inches): NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
0				SILT: Dry, dense, friable, (powdery), orangish					
1									
2		3.25						1.0	Sample
3				CLAYEY SILT: (30%) dark tan with ogange tint, soft					Sample
4				- wet, spongy				0.6	▽
5				- tan, wet, spongy					
6		4						0.6	
7				- orangish tan, spongy, wet					
8								0.6	
9									
10		4		- orangish tan, spongy, wet				0.6	
11									
12				- Total Depth 12 ft bls				0.5	
13				- Background OVM-0.1 ppm					
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									

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SAMPLE / CORE LOG

Boring/Well: GP-SB-10 **Project No.:** LA002656.0001.00012/Mississippi Bluffs

Site Location: Vicksburg, Mississippi **Drilling Started:** 2/13/07 1610 **Drilling Completed:** 2/13/07 1635

Land-Surface Elev.: NA **Surveyed:** NA **Estimated:** ____ **Datum:** NA

Drilling Fluid: None **Drilling Method Used:** Geoprobe

Drilling Contractor: Devonian **Driller:** Lonny **Helper:** DeWayne

Prepared By: K. Montgomery **Hammer Weight:** NA **Hammer Drop (inches):** NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
0				Natural organics					
1				CLAYEY SILT: (20%) dark brown, wet, natural organics through out, soft					
2		3.5						2.4	Sample
3				- light brown, wet, spongy, very soft					
4								13.5	Sample
5				- clay (30%) light orangish brown, wet, very soft					
6		4							
7								0.8	
8									
9								0.7	
10		4		- spongy, wet, very soft					
11				- spongy, wet, very soft				0.7	
12									
13				- Total Depth 12 ft bls - Background OVM-0.1 ppm				0.8	
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									

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SAMPLE / CORE LOG

Boring/Well: GP-SB-11 **Project No.:** LA002656.0001.00012/Mississippi Bluffs

Site Location: Vicksburg, Mississippi **Drilling Started:** 2/14/07 0735 **Drilling Completed:** 2/14/07 0800

Land-Surface Elev.: NA **Surveyed:** NA **Estimated:** ____ **Datum:** NA

Drilling Fluid: None **Drilling Method Used:** Geoprobe

Drilling Contractor: Devonian **Driller:** Lonny **Helper:** DeWayne

Prepared By: K. Montgomery **Hammer Weight:** NA **Hammer Drop (inches):** NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
0				FILL: Rocks/gravel/sand, loose					
1									
2		4		CLAYEY SILT: (30%) ferrous red brown, soft, very fine, trace of natural organics, very moist				2.8	Sample
3									
4								1.1	Sample
5									
6		4		- dark gray mottling				1.6	
7									
8				- stiff hard, red brown, damp				2.1	
9									
10		4		- gray, spongy, very moist				2.8	
11									
12				- medium gray, trace of very fine sand					
13				- Total Depth 12 ft bls - Background OVM-1.0 ppm				2.0	
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									

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SAMPLE / CORE LOG

Boring/Well: GP-SB-12 Project No.: LA002656.0001.00012/Mississippi Bluffs Page 1 of 1

Site Location: Vicksburg, Mississippi Drilling Started: 2/14/07 0845 Drilling Completed: 2/14/07 0910

Land-Surface Elev.: NA Surveyed: NA Estimated: ____ Datum: NA

Drilling Fluid: None Drilling Method Used: Geoprobe

Drilling Contractor: Devonian Driller: Lonny Helper: DeWayne

Prepared By: K. Montgomery Hammer Weight: NA Hammer Drop (inches): NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
0									
1				CLAYEY SILT: (30%) brown, wet, soft, rootlets					
2		3.25							
3				- light ferrous orange/brown, spongy				1.3	Sample
4									
5				- saturated, very soft, clay increasing (40%)				0.8	Sample
6		4							
7				SILTY CLAY: (40%) brown, natural organics, very moist, very soft		< 0.25	< 0.25	0.8	
8									
9								0.7	
10				- (40%) brown, natural organics, very moist, very soft		< 0.25	< 0.25		
11		3.5						1.1	
12				- (30%) ferrous orange tan, very moist, very soft		< 0.25	< 0.25		
13				- Total Depth 12 ft bls - Background OVM 1.0 ppm				0.7	
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									

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SAMPLE / CORE LOG

Boring/Well: GP-SB-13 **Project No.:** LA002656.0001.00012/Mississippi Bluffs

Site Location: Vicksburg, Mississippi **Drilling Started:** 2/14/07 0920 **Drilling Completed:** 2/14/07 0950

Land-Surface Elev.: NA **Surveyed:** NA **Estimated:** ____ **Datum:** NA

Drilling Fluid: None **Drilling Method Used:** Geoprobe

Drilling Contractor: Devonian **Driller:** Lonny **Helper:** DeWayne

Prepared By: K. Montgomery **Hammer Weight:** NA **Hammer Drop (inches):** NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
0				SILT: Trace of clay, dry, brittle, tan with orange					
2		4		- gray tint, mottled				0.9	Sample
3				CLAYEY SILT: (30%) damp, soft, gray/brown					
4								1.4	Sample
5				- very moist					
6		4		- dark gray				1.6	
7									
8				- tan, spongy, wet				1.3	
9									
10		4		- dark gray, clay increasing, wet				1.1	
11				SANDY CLAY: (30%) gray/brown, very moist, very soft, very fine sand					
12				- Total Depth 12 ft bls				0.9	
13				- Background OVM-0.8 ppm					
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									

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SAMPLE / CORE LOG

Boring/Well: GP-SB-13B **Project No.:** Mississippi Bluffs/LA002656.0001.00013 **Page 1 of 1**

Site Location: Vicksburg, Mississippi **Drilling Started:** 4/18/07 **Drilling Completed:** 4/18/07

Land-Surface Elev.: _____ **Surveyed:** _____ **Estimated:** _____ **Datum:** _____

Drilling Fluid: None **Drilling Method Used:** Direct Push

Drilling Contractor: Devonian **Driller:** Dewayne **Helper:** Joe, Mark

Prepared By: G. Cook **Hammer Weight:** NA **Hammer Drop (inches):** NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
0-2		4		CLAYEY SILT: Brown, grass, pea gravel, dry SILT: Tan, black natural organic stains, dry, loose				2.0	
2-4				CLAYEY SILT: (10, 90) brown, ferrous staining, wet				1.4	⧖
4-6		4		SILT: Grayish/brown, black natural organic stains, loose				4.6	
6-7				CLAYEY SILT: Gray, damp					
7-8				SILT: Brown, ferrous staining, tan - Total Depth 8 ft bls - Background OVA 1.0 PPM				1.0	

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SAMPLE / CORE LOG

Boring/Well: GP-SB-14 **Project No.:** LA002656.0001.00012/Mississippi Bluffs

Site Location: Vicksburg, Mississippi **Drilling Started:** 2/14/07 1000 **Drilling Completed:** 2/14/07 1020

Land-Surface Elev.: NA **Surveyed:** NA **Estimated:** ____ **Datum:** NA

Drilling Fluid: None **Drilling Method Used:** Geoprobe

Drilling Contractor: Devonian **Driller:** Lonny **Helper:** DeWayne

Prepared By: K. Montgomery **Hammer Weight:** NA **Hammer Drop (inches):** NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
0				CLAYEY SILT: (30%) soft, damp, orangish brown					
1									
2		3.25							
3				- (30%) soft, damp, orangish brown				1.3	Sample DUP02 collected here
4									
5				- reddish brown, dry				1.7	Sample
				SILT: Gray, dry, friable, very fine					
6		4							
7				CLAYEY SILT: (30%) grayish tan, wet				1.6	
8				- white/gray concretion observed					
9								1.1	
10				- clay (40%) light brown, very moist					
11		4						1.8	
12				SILTY SAND: (40%) ferrous orange/tan, wet, very fine to fine					
13				- Total Depth 12 ft bls				1.8	
				- Background OVM-0.8 ppm					
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									

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SAMPLE / CORE LOG

Boring/Well: GP-SB-15 Project No.: LA002656.0001.00012/Mississippi Bluffs

Site Location: Vicksburg, Mississippi Drilling Started: 2/14/07 1408 Drilling Completed: 2/14/07 1435

Land-Surface Elev.: NA Surveyed: NA Estimated: ____ Datum: NA

Drilling Fluid: None Drilling Method Used: Geoprobe

Drilling Contractor: Devonian Driller: Lonny Helper: DeWayne

Prepared By: K. Montgomery Hammer Weight: NA Hammer Drop (inches): NA

Fill, Silty Clay, Silt, Sandy Silt, Silty Sand, Shelby Tube, Water First Encountered
Clay, Sandy Clay, Clayey Silt, Sand, Clayey Sand, Split Spoon, Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
0				CLAYEY SILT: (40%) brown, wet, very soft, rootlets					
1									
2		3.75							
3				- light tan, soft, very moist SILT: Trace of clay, very fine, dry				1.0	Sample
4								1.7	Sample
5									
6		4		- gray/tan				1.3	
7				CLAYEY SILT: (30%) moist, light gray/tan					
8								1.0	
9									
10		3							
11				- (30%) moist, light gray/tan				1.0	
12				- Total Depth 12 ft bls - Backgound OVM-0.7 ppm				1.2	
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									

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SAMPLE / CORE LOG

Boring/Well: GP-SB-16 Project No.: LA002656.0001.00012/Mississippi Bluffs

Site Location: Vicksburg, Mississippi Drilling Started: 2/14/07 1448 Drilling Completed: 2/14/07 1528

Land-Surface Elev.: NA Surveyed: NA Estimated: ____ Datum: NA

Drilling Fluid: None Drilling Method Used: Geoprobe

Drilling Contractor: Devonian Driller: Lonny Helper: DeWayne

Prepared By: K. Montgomery Hammer Weight: NA Hammer Drop (inches): NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
0-2		4		CLAYEY SILT: (20%) dry, tan/brown, friable				1.3	Sample
2-4				SILT: Dry, very fine, friable, gray with ferrous staining				1.3	Sample
4-6		4		- medium gray, wet, dense					
6-8				- dark natural organics within silt seam (3 inches), tan/brown				1.0	
8-10		4		- saturated, wet, not as dense, trace of clay, ferrous brown, spongy				0.8	
10-12				CLAYEY SILT: (30%) ferrous (orange tint), spongy, soft				1.4	
12				- Total Depth 12 ft bls - Background OVM-0.8 ppm				0.8	

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SAMPLE / CORE LOG

Boring/Well: GP-SB-17 Project No.: LA002656.0001.00012/Mississippi Bluffs

Site Location: Vicksburg, Mississippi Drilling Started: 2/15/07 0755 Drilling Completed: 2/15/07 0830

Land-Surface Elev.: NA Surveyed: NA Estimated: ____ Datum: NA

Drilling Fluid: None Drilling Method Used: Geoprobe

Drilling Contractor: Devonian Driller: Lonny Helper: DeWayne

Prepared By: K. Montgomery Hammer Weight: NA Hammer Drop (inches): NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
0				FILL: Rail bed, road bed, rocks/gravel/sand					
1									
2		4		SILTY CLAY: (30%) (reddish tint), brown, very soft, very moist		< 0.25	< 0.25	1.8	Sample
3				- trace of sand					
4								2.0	Sample
5				CLAYEY SILT: (40%) brown with reddish tint, wet, very soft					
6		4						3.5	
7				SANDY SILT: (30%) trace of clay, brown with reddish tint, wet, very fine					
8								2.8	
9									
10		3.75		SILTY SAND: (40%) light brown with reddish tint, wet, very fine				5.2	
11									
12				- less silty (30%) saturated, coarsening to fine					
13				- Total Depth 12 ft bls - Background OVM-0.5 ppm				1.6	
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									

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SAMPLE / CORE LOG

Boring/Well: GP-SB-18 **Project No.:** LA002656.0001.00012/Mississippi Bluffs

Site Location: Vicksburg, Mississippi **Drilling Started:** 2/15/07 0840 **Drilling Completed:** 2/15/07 0910

Land-Surface Elev.: NA **Surveyed:** NA **Estimated:** ____ **Datum:** NA

Drilling Fluid: None **Drilling Method Used:** Geoprobe

Drilling Contractor: Devonian **Driller:** Lonny **Helper:** DeWayne

Prepared By: K. Montgomery **Hammer Weight:** NA **Hammer Drop (inches):** NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
0				FILL: Gravel/railroad bed					
1				CLAYEY SILT: (20%) damp, brown with ferrous tint					
2		4						2.1	Sample
3				- wet, soft SILTY CLAY: (40%) very moist to wet, brown with ferrous tint					
4						<	<	2.8	Sample
5						0.25	0.25		
6		4		- very soft SANDY SILT: (30%) with a trace of clay, tan or light brown with ferrous tint, very fine, moist				2.0	
7									
8				SILTY SAND: (30%) loose, light brown, moist, very fine				3.0	
9									
10		4						3.0	
11				- silty (20%) decreasing, coarsening sand to fine, saturated					
12				- Total Depth 12 ft bls - Background OVM-0.5 ppm				2.8	
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									

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SAMPLE / CORE LOG

Boring/Well: GP-SB-19 **Project No.:** LA002656.0001.00012/Mississippi Bluffs

Site Location: Vicksburg, Mississippi **Drilling Started:** 2/15/07 0920 **Drilling Completed:** 2/15/07 0950

Land-Surface Elev.: NA **Surveyed:** NA **Estimated:** ____ **Datum:** NA

Drilling Fluid: None **Drilling Method Used:** Geoprobe

Drilling Contractor: Devonian **Driller:** Lonny **Helper:** DeWayne

Prepared By: K. Montgomery **Hammer Weight:** NA **Hammer Drop (inches):** NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
0				FILL: Gravel					
1				SILT: (Trace of clay), powdery, brown with ferrous stain, dry					
2		4		CLAYEY SILT: (30%) brown with ferrous stain, very moist, very soft				0.5	Sample
3									
4				- (30%) brown with ferrous stain, very moist, very soft				1.2	Sample
5									
6		4		SILT: (Trace of clay), reddish brown, hard (dense) friable, very fine, dry				2.2	
7									
8								1.7	
9				- dark brown, dry, clay increasing					
10		4		SILTY CLAY: (40%) brown with reddish tint, very soft, wet					
11						< 0.25	< 0.25	2.8	
12				- Total Depth 12 ft bls				2.2	
13				- Background OVM-0.8 ppm					
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									

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SAMPLE / CORE LOG

Boring/Well: GP-SB-20 **Project No.:** LA002656.0001.00012/Mississippi Bluffs

Site Location: Vicksburg, Mississippi **Drilling Started:** 2/15/07 1020 **Drilling Completed:** 2/15/07 1050

Land-Surface Elev.: NA **Surveyed:** NA **Estimated:** ____ **Datum:** NA

Drilling Fluid: None **Drilling Method Used:** Geoprobe

Drilling Contractor: Devonian **Driller:** Lonny **Helper:** DeWayne

Prepared By: K. Montgomery **Hammer Weight:** NA **Hammer Drop (inches):** NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
0				FILL: Bed marker					
1				SILT: Brown with ferrous tint, dry, moderately dense, friable, (powdery)					
2		4						1.0	Sample
3									
4				- clay trace				1.8	Sample
5				CLAYEY SILT: (20%) moist, soft, ferrous brown					
6		4						1.8	
7				SILT: Gray with ferrous staining, wood fragments					
8				- black/dark gray natural organics, damp, dense					
9				- trace of clay				2.1	
10		4		SILTY CLAY: (30%) red brown, very soft, very moist to wet					
11				- soft		< 0.25	< 0.25	2.5	
12				- soft					
13				- Total Depth 12 ft bls				1.7	
14				- Background OVM-0.8 ppm					
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									

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SAMPLE / CORE LOG

Boring/Well: GP-SB-21 Project No.: LA002656.0001.00012/Mississippi Bluffs

Site Location: Vicksburg, Mississippi Drilling Started: 2/15/07 1215 Drilling Completed: 2/15/07 1245

Land-Surface Elev.: NA Surveyed: NA Estimated: ____ Datum: NA

Drilling Fluid: None Drilling Method Used: Geoprobe

Drilling Contractor: Devonian Driller: Lonny Helper: DeWayne

Prepared By: K. Montgomery Hammer Weight: NA Hammer Drop (inches): NA

Fill, Silty Clay, Silt, Sandy Silt, Silty Sand, Shelby Tube, Water First Encountered
Clay, Sandy Clay, Clayey Silt, Sand, Clayey Sand, Split Spoon, Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
0–2		4		SILT: Brown with ferrous tint, dry, dense, brittle					
2–4				CLAYEY SILT: (30%) light brown with ferrous, soft, very moist				1.0	Collected MS/MSD here
4–5								1.5	Collected DUP03 here
5–7		3.5		SILTY CLAY: (30%) dark brown, wet, rootlets, very soft		< 0.25	< 0.25	2.7	
7–8				SILT: Ferrous brown, dense, hard, very fine, dry					
8–9								2.1	
9–12		3.75		- clay increasing, very moist, natural organics CLAYEY SILT: (30%) wet, tan, wet, soft, spongy				1.7	
12–13				- Total Depth 12 ft bls - Background OVM-0.8 ppm				2.2	
13–25									

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SAMPLE / CORE LOG

Boring/Well: GP-SB-22 Project No.: LA002656.0001.00012/Mississippi Bluffs

Site Location: Vicksburg, Mississippi Drilling Started: 2/21/07 0740 Drilling Completed: 2/21/07 1115

Land-Surface Elev.: NA Surveyed: NA Estimated: ____ Datum: NA

Drilling Fluid: None Drilling Method Used: Geoprobe

Drilling Contractor: Devonian Driller: Lonny Helper: DeWayne

Prepared By: K. Montgomery Hammer Weight: NA Hammer Drop (inches): NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
0				FILL: Gravel					
1									
2									
3		4		- sand seam 2 inches wet, red, brown SILT: Red, brown (fill) - natural organics, wood fragments					
4									
5				SILT: Trace of clay, wet, orangish brown, soft					
6									
7				CLAYEY SILT: (20-30%) orangish brown, wet, spongy, very soft					
8		5							
9				- trace of natural organics					
10									
11				- increasing in clay, wet, orangish brown					
12									
13		5		- medium gray, color change, still wet, still spongy					
14									
15									
16				- clay decreasing (10-20%) wet, grayish brown					
17									
18		5							
19				- wet					
20									
21				- (30%) clay, very soft, grayish brown					
22									
23		5							
24									
25									

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SAMPLE / CORE LOG

Boring/Well: GP-SB-22 **Project No.:** LA002656.0001.00012/Mississippi Bluffs

Site Location: Vicksburg, Mississippi **Drilling Started:** 2/21/07 0740 **Drilling Completed:** 2/21/07 1115

Land-Surface Elev.: NA **Surveyed:** NA **Estimated:** ____ **Datum:** NA

Drilling Fluid: None **Drilling Method Used:** Geoprobe

Drilling Contractor: Devonian **Driller:** Lonny **Helper:** DeWayne

Prepared By: K. Montgomery **Hammer Weight:** NA **Hammer Drop (inches):** NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
26				- (<10%) brownish gray, saturated, dense, very soft					
27									
28		5							
29									
30									
31				- wet, very soft					
32									
33		4		- contained clayey silt (<10%) wet, brownish gray					
34									
35									
36				- ultra soft, wet, slid out of sample tube					
37									
38		2.5		SILTY CLAY: (30%) grayish brown, soft					
39									
40									
41				SANDY CLAY: (30%) grayish tan, very soft, wet					
42									
43		5		- stiffening clayey sand (20%) seam 5 inches greenish brown					
44									
45				- (20%) sandy, soft mallable					
46				CLAYEY SAND: (20%) greenish tint, wet, soft, saturated					
47									
48		4		SILTY SAND: (30%) greenish tint, abundant very fine shell fragments, loose					
49				- Hit refusal 49 ft bls.					
50									

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SAMPLE / CORE LOG

Boring/Well: GP-SB-23 **Project No.:** LA002656.0001.00012/Mississippi Bluffs

Site Location: Vicksburg, Mississippi **Drilling Started:** 2/21/07 1345 **Drilling Completed:** 2/21/07 1515

Land-Surface Elev.: NA **Surveyed:** NA **Estimated:** ____ **Datum:** NA

Drilling Fluid: None **Drilling Method Used:** Geoprobe

Drilling Contractor: Devonian **Driller:** Lonny **Helper:** DeWayne

Prepared By: K. Montgomery **Hammer Weight:** NA **Hammer Drop (inches):** NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
0				SILT: Dry to damp, loose, rootlets/natural organics					
1				CLAYEY SILT: (30%) brown, soft, wet					
2									
3		3.5		- saturated seam					
4				- ferrous tan, very soft					
5									
6				- saturated (40%) dry, orangish tan					
7									
8		4.0		SILTY CLAY: (40%) grayish tan, wet, very soft					
9									
10									
11				- (40%) grayish tan, wet, very soft					
12									
13		4.5		- occassional dry seam (2 inches)					
14									
15									
16									
17									
18		3.0		- mottled gray/orangish brown					
19									
20									
21									
22									
23		4.0		- mottled gray/orangish brown					
24									
25									

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SAMPLE / CORE LOG

Boring/Well: GP-SB-23 **Project No.:** LA002656.0001.00012/Mississippi Bluffs

Site Location: Vicksburg, Mississippi **Drilling Started:** 2/21/07 1345 **Drilling Completed:** 2/21/07 1515

Land-Surface Elev.: NA **Surveyed:** NA **Estimated:** ____ **Datum:** NA

Drilling Fluid: None **Drilling Method Used:** Geoprobe

Drilling Contractor: Devonian **Driller:** Lonny **Helper:** DeWayne

Prepared By: K. Montgomery **Hammer Weight:** NA **Hammer Drop (inches):** NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
26				CLAYEY SILT: (40%) red/brown, soft, wet					
27									
28		4.75		SILTY CLAY: (40%) red/brown with gray mottling, soft, very wet					
29									
30				SANDY CLAY: (20%) soft, wet, greenish brown					
31									
32									
33		4.0		- (20%) soft, wet, greenish brown					
34									
35		1.5		SILTY SAND: (20%) medium coarse, loose, trace of clay with occasional pea gravel					
36				- mixture of clay, sand (coarse) soft, pea gravel					
37				- marl at 36.5 feet hard, green, cemented with crushed shells - Refusal at 36.5 ft bls					
38									
39									
40									
41									
42									
43									
44									
45									
46									
47									
48									
49									
50									

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SAMPLE / CORE LOG

Boring/Well: GP-SB-24 **Project No.:** LA002656.0001.00012/Mississippi Bluffs

Site Location: Vicksburg, Mississippi **Drilling Started:** 2/21/07 1635 **Drilling Completed:** 2/22/07 0953

Land-Surface Elev.: NA **Surveyed:** NA **Estimated:** ____ **Datum:** NA

Drilling Fluid: None **Drilling Method Used:** Geoprobe

Drilling Contractor: Devonian **Driller:** Lonny **Helper:** DeWayne

Prepared By: K. Montgomery **Hammer Weight:** NA **Hammer Drop (inches):** NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
0–3		3		CLAYEY SILT: (30%) soft, wet, rootlets, orangish brown					
3–7		4		SILTY CLAY: (30%) soft, wet, very soft, light orangish brown					
7–12		4.5		CLAYEY SILT: (40%) trace of sand, gray, soft					
12–17		5		- (40%) gray with occassional rootlets, trace of sand, soft, wet					
17–22		5		- occassional natural organics					

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SAMPLE / CORE LOG

Boring/Well: GP-SB-24 **Project No.:** LA002656.0001.00012/Mississippi Bluffs

Site Location: Vicksburg, Mississippi **Drilling Started:** 2/21/07 1635 **Drilling Completed:** 2/22/07 0953

Land-Surface Elev.: NA **Surveyed:** NA **Estimated:** ____ **Datum:** NA

Drilling Fluid: None **Drilling Method Used:** Geoprobe

Drilling Contractor: Devonian **Driller:** Lonny **Helper:** DeWayne

Prepared By: K. Montgomery **Hammer Weight:** NA **Hammer Drop (inches):** NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H V	OVM (wo/F) (ppm)	REMARKS
26		5		- (40%) gray/brown, soft, wet, "sticky" some natural organics				
27								
28								
29				- abundant natural organics (i.e. wood fragments), soft, wet				
30								
31		5		- (30%) gray, soft, trace of sand				
32								
33				- (30%) gray, soft, trace of sand				
34								
35				- wood (3 inches)				
36								
37		4.5		- 3 inch sand seam (with crushed shell, fossilliferous clayey silt), soft, wet				
38								
39								
40				- gravel/clay, coarse sand seam 2 inches				
41								
42		3.5		SILT: Hard with shell fragments				
43								
44				- Refusal at 44 ft bls				
45								
46								
47								
48								
49								
50								

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SAMPLE / CORE LOG

Boring/Well: GP-SB-25 **Project No.:** LA002656.0001.00012/Mississippi Bluffs

Site Location: Vicksburg, Mississippi **Drilling Started:** 2/22/07 1020 **Drilling Completed:** 2/22/07 1249

Land-Surface Elev.: NA **Surveyed:** NA **Estimated:** ____ **Datum:** NA

Drilling Fluid: None **Drilling Method Used:** Geoprobe

Drilling Contractor: Devonian **Driller:** Lonny **Helper:** DeWayne

Prepared By: K. Montgomery **Hammer Weight:** NA **Hammer Drop (inches):** NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
0–3		5		CLAYEY SILT: (20%) orangish brown, soft, moist, angular rocks/concretions, wet					
3–5				SILT: mottled tan, orange, gray, hard, dense, trace of clay, damp to dry					
5–7				- gray, dry					
7–8		4		- gray, dry					
8–10				- mottled orange/brown/gray, less dense					
10–11				CLAYEY SILT: (30%) orangish brown, wet					
11–13		5		- less clay (10%)					
13–15				SILT: Orangish brown, wet, friable (crumbley), soft					
15–16				- trace of clay, wet					
16–18		5							
18–20				- dense gray seam of dry silt, dense					
20–21				- less orange, grayish brown, wet, soft, occassional angular concretions					
21–23		4							
23–25									

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SAMPLE / CORE LOG

Boring/Well: GP-SB-25 **Project No.:** LA002656.0001.00012/Mississippi Bluffs

Site Location: Vicksburg, Mississippi **Drilling Started:** 2/22/07 1020 **Drilling Completed:** 2/22/07 1249

Land-Surface Elev.: NA **Surveyed:** NA **Estimated:** ____ **Datum:** NA

Drilling Fluid: None **Drilling Method Used:** Geoprobe

Drilling Contractor: Devonian **Driller:** Lonny **Helper:** DeWayne

Prepared By: K. Montgomery **Hammer Weight:** NA **Hammer Drop (inches):** NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H V	OVM (wo/F) (ppm)	REMARKS
26				- grayish brown, wet, soft, trace of clay, occassional concretions				
27								
28		4		- grayish brown, wet, soft, trace of clay, occassional concretions				
29								
30								
31				- grayish brown, wet, soft, trace of clay, occassional concretions				
32				- hard (dense), brownish gray, damp				
33		5						
34				- hard (dense), brownish gray, damp				
35								
36								
37				- ferrous streaking				
38		5		SANDY SILT: (40%) very fine, light gray, dense				
39								
40				SILTY SAND: (30%) light gray, loose, wet, very fine to fine				
41				CLAY: Gray, stiff, damp, moderate plasticity				
42								
43		5		SILTY SAND: (20-30%) tannish gray, saturated, very fine to fine				
44								
45								
46								
47				- silt seam (6 inches) gray, soft - clay seam (1 inch), soft - sand seam (1 inch), coarse				
48		4						
49								
50				CLAYEY SAND: (30%) gray, wet, soft				

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SAMPLE / CORE LOG

Boring/Well: GP-SB-25 **Project No.:** LA002656.0001.00012/Mississippi Bluffs

Site Location: Vicksburg, Mississippi **Drilling Started:** 2/22/07 1020 **Drilling Completed:** 2/22/07 1249

Land-Surface Elev.: NA **Surveyed:** NA **Estimated:** ____ **Datum:** NA

Drilling Fluid: None **Drilling Method Used:** Geoprobe

Drilling Contractor: Devonian **Driller:** Lonny **Helper:** DeWayne

Prepared By: K. Montgomery **Hammer Weight:** NA **Hammer Drop (inches):** NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
51									
52				- gravel (pea to large), sand clay mixture - Refusal at 52 ft bls					
53									
54									
55									
56									
57									
58									
59									
60									
61									
62									
63									
64									
65									
66									
67									
68									
69									
70									
71									
72									
73									
74									
75									

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SAMPLE / CORE LOG

Boring/Well: GP-SB-26 **Project No.:** LA002656.0001.00012/Mississippi Bluffs

Site Location: Vicksburg, Mississippi **Drilling Started:** 2/22/07 1345 **Drilling Completed:** 2/22/07 1652

Land-Surface Elev.: NA **Surveyed:** NA **Estimated:** ____ **Datum:** NA

Drilling Fluid: None **Drilling Method Used:** Geoprobe

Drilling Contractor: Devonian **Driller:** Lonny **Helper:** DeWayne

Prepared By: G. Cook **Hammer Weight:** NA **Hammer Drop (inches):** NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
0				CLAYEY SILT: Brown, organics					
3		5		- wet					
7				SILT: Brown with light gray streaks, dry					
8		5							
11				SILTY CLAY: Brown ferrous staining, dry, soft					
13		5		CLAYEY SILT: Brown, orangish, dry					
17				- ferrous nodules					
18		4		- wet					
21				- saturated					
23		5		- gray, wet					
25									

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SAMPLE / CORE LOG

Boring/Well: GP-SB-26 **Project No.:** LA002656.0001.00012/Mississippi Bluffs

Site Location: Vicksburg, Mississippi **Drilling Started:** 2/22/07 1345 **Drilling Completed:** 2/22/07 1652

Land-Surface Elev.: NA **Surveyed:** NA **Estimated:** ____ **Datum:** NA

Drilling Fluid: None **Drilling Method Used:** Geoprobe

Drilling Contractor: Devonian **Driller:** Lonny **Helper:** DeWayne

Prepared By: G. Cook **Hammer Weight:** NA **Hammer Drop (inches):** NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
26				- gray with dark gray streaks, wet					
27									
28		5							
29									
30									
31									
32									
33		5		- emerged in silt (90%), saturated					
34									
35									
36				- dense in silt (40-60%)					
37									
38		5							
39				- brown, trace of shell fragments, wet					
40									
41									
42									
43		5		- saturated					
44									
45									
46									
47				- increasing in clay (50%) - shells, shell fragements SILTY CLAY: Brown to brown gray, damp, soft					
48		5							
49									
50				SANDY CLAY: Brownish gray CLAYEY SAND: Brownish gray streaks					

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SAMPLE / CORE LOG

Boring/Well: GP-SB-26 **Project No.:** LA002656.0001.00012/Mississippi Bluffs

Site Location: Vicksburg, Mississippi **Drilling Started:** 2/22/07 1345 **Drilling Completed:** 2/22/07 1652

Land-Surface Elev.: NA **Surveyed:** NA **Estimated:** ____ **Datum:** NA

Drilling Fluid: None **Drilling Method Used:** Geoprobe

Drilling Contractor: Devonian **Driller:** Lonny **Helper:** DeWayne

Prepared By: G. Cook **Hammer Weight:** NA **Hammer Drop (inches):** NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
51									
52									
53		4							
54				- copent gravel, sand, (mixture) - Refusal at 54 ft bls					
55									
56									
57									
58									
59									
60									
61									
62									
63									
64									
65									
66									
67									
68									
69									
70									
71									
72									
73									
74									
75									

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SAMPLE / CORE LOG

Boring/Well: GP-SB-27 **Project No.:** Mississippi Bluffs/LA002656.0001.00013

Site Location: Vicksburg, Mississippi **Drilling Started:** 4/18/07 **Drilling Completed:** 4/18/07

Land-Surface Elev.: _____ **Surveyed:** ____ **Estimated:** ____ **Datum:** _____

Drilling Fluid: None **Drilling Method Used:** Direct Push

Drilling Contractor: Devonian **Driller:** Dewayne **Helper:** Joe, Mark

Prepared By: G. Cook **Hammer Weight:** NA **Hammer Drop (inches):** NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
0				FILL: Sand, gravel, clay					
1				SILT: Grayish brown, ferrous staining, dry				2.1	
2		4		- damp					
3				CLAYEY SILT: (10, 90), brown ferrous staining, wet		0.5	/0.5	5.0	
4				- gray, saturated - Total Depth 4 ft bls - Background OVA 0.1 PPM					
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									

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SAMPLE / CORE LOG

Boring/Well: GP-SB-28 Project No.: Mississippi Bluffs/LA002656.0001.00013

Site Location: Vicksburg, Mississippi Drilling Started: 4/18/07 Drilling Completed: 4/18/07

Land-Surface Elev.: _____ Surveyed: ____ Estimated: ____ Datum: _____

Drilling Fluid: None Drilling Method Used: Direct Push

Drilling Contractor: Devonian Driller: Dewayne Helper: Joe, Mark

Prepared By: G. Cook Hammer Weight: NA Hammer Drop (inches): NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
0				FILL: Sand, gravel, clay					
1				SILT: Tan, dry, loose				0.6	
2		4		CLAYEY SILT: Brown to dark brown, ferrous stain, wet, (perched)		0.5	/0.5		
3								0.1	
4				- Total Depth 4 ft bls - Background OVA 0.1 PPM					
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									

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SAMPLE / CORE LOG

Boring/Well: GP-SB-29 **Project No.:** Mississippi Bluffs/LA002656.0001.00013

Site Location: Vicksburg, Mississippi **Drilling Started:** 4/18/07 **Drilling Completed:** 4/18/07

Land-Surface Elev.: _____ **Surveyed:** _____ **Estimated:** _____ **Datum:** _____

Drilling Fluid: None **Drilling Method Used:** Direct Push

Drilling Contractor: Devonian **Driller:** Dewayne **Helper:** Joe, Mark

Prepared By: G. Cook **Hammer Weight:** NA **Hammer Drop (inches):** NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
0–1				FILL: Sand, gravel, and silt SILT: Tan, ferrous staining, dry, loose				2.7	
1–3		4		CLAYEY SILT: Brown, ferrous staining, dry				1.9	
3–4				- Total Depth 4 ft bls - Background OVA 0.1 PPM					

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SAMPLE / CORE LOG

Boring/Well: GP-SB-30 **Project No.:** Mississippi Bluffs/LA002656.0001.00013

Site Location: Vicksburg, Mississippi **Drilling Started:** 4/18/07 **Drilling Completed:** 4/18/07

Land-Surface Elev.: _____ **Surveyed:** _____ **Estimated:** _____ **Datum:** _____

Drilling Fluid: None **Drilling Method Used:** Direct Push

Drilling Contractor: Devonian **Driller:** Dewayne **Helper:** Joe, Mark

Prepared By: G. Cook **Hammer Weight:** NA **Hammer Drop (inches):** NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
0–1				FILL: Sand, gravel, silt SILT: Tan, black natural organic stains, dry, loose				1.1	
1–2		4							
2–3				CLAYEY SILT: Brown ferrous staining, wet - dark gray				1.4	
3–4				- Total Depth 4 ft bls - Background OVA 1.1 PPM					
4–25									

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SAMPLE / CORE LOG

Boring/Well: GP-SB-31 **Project No.:** Mississippi Bluffs/LA002656.0001.00013

Site Location: Vicksburg, Mississippi **Drilling Started:** 4/18/07 **Drilling Completed:** 4/18/07

Land-Surface Elev.: _____ **Surveyed:** _____ **Estimated:** _____ **Datum:** _____

Drilling Fluid: None **Drilling Method Used:** Direct Push

Drilling Contractor: Devonian **Driller:** Dewayne **Helper:** Joe, Mark

Prepared By: G. Cook **Hammer Weight:** NA **Hammer Drop (inches):** NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
0				FILL: Gravel, sand					
1				SILT: Tan, damp, loose				1.7	
2		4							▽
3				- dark brown ferrous staining, wet				1.8	
4				- Total Depth 4 ft bls - Background OVA 0.1 PPM					
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									

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SAMPLE / CORE LOG

Boring/Well: GP-SB-32 **Project No.:** Mississippi Bluffs/LA002656.0001.00013

Site Location: Vicksburg, Mississippi **Drilling Started:** 4/18/07 **Drilling Completed:** 4/18/07

Land-Surface Elev.: _____ **Surveyed:** ____ **Estimated:** ____ **Datum:** _____

Drilling Fluid: None **Drilling Method Used:** Direct Push

Drilling Contractor: Devonian **Driller:** Dewayne **Helper:** Joe, Mark

Prepared By: G. Cook **Hammer Weight:** NA **Hammer Drop (inches):** NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | ▽ Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | ▼ Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
0				TOPSOIL: Top soil					
1				SILT: Brown, loose, dry				1.6	
2		4							▽
3								2.1	
4				- Total Depth 4 ft bls - Background OVA 0.1 PPM					
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									

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SAMPLE / CORE LOG

Boring/Well: TP-PZ-01 **Project No.:** Mississippi Bluffs/LA002656.0001.00013

Site Location: Vicksburg, Mississippi **Drilling Started:** 4/19/07 **Drilling Completed:** 4/19/07

Land-Surface Elev.: _____ **Surveyed:** ____ **Estimated:** ____ **Datum:** _____

Drilling Fluid: None **Drilling Method Used:** Direct Push

Drilling Contractor: Devonian **Driller:** Dewayne **Helper:** Joe, Mark

Prepared By: G. Cook **Hammer Weight:** NA **Hammer Drop (inches):** NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
0				FILL: Sand, gravel, asphalt					
1				SILT: Tan, ferrous staining, dry, loose		2.5	/2.5	1.9	
2				SILTY CLAY: Tan, ferrous staining and nodules, dry, very stiff					
3		4.75				1.0	/1.0	1.6	
4				SILT: Tan, dry, loose					
5				SILTY CLAY: Tan, ferrous staining, damp				1.3	
6				- damp					
7				CLAY: Brownish-gray, ferrous staining and nodules, damp, sticky, stiff		2.0	/2.5	1.3	
8		4.5							
9				- black natural organic staining, very stiff		2.5	/2.75	1.5	
10									
11						2.5	/2.75	1.1	
12									
13		5.0				2.5	/2.5	1.0	
14									
15						2.5	/2.5	1.3	
16									
17						3.0	/2.5	1.3	
18		4.0							
19				- gray ferrous staining, dry, very stiff		2.75	/3.0	1.8	
20									
21						4.25	/4.0	1.6	
22				- abundant ferrous material, dry, hard					
23		5.0				4.25	/4.0	1.2	
24									
25									

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SAMPLE / CORE LOG

Boring/Well: TP-PZ-01 Project No.: Mississippi Bluffs/LA002656.0001.00013

Site Location: Vicksburg, Mississippi Drilling Started: 4/19/07 Drilling Completed: 4/19/07

Land-Surface Elev.: _____ Surveyed: _____ Estimated: _____ Datum: _____

Drilling Fluid: None Drilling Method Used: Direct Push

Drilling Contractor: Devonian Driller: Dewayne Helper: Joe, Mark

Prepared By: G. Cook Hammer Weight: NA Hammer Drop (inches): NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
26						3.5	/4.0	1.1	
27									
28		5.0				4.0	/3.75	1.6	
29									
30						3.5	/3.75	1.7	
31									
32						3.5	/3.5	1.4	
33		5.0							
34						3.0	/3.2	1.3	
35				SILTY CLAY: Tanish gray, ferrous nodules, dry, stiff					▽
36				CLAYEY SAND: - fine grained, gray, wet		2.0	/2.0	1.3	
37									
38		3.0		CLAY: Gray ferrous nodules, dry, stiff		3.5	/3	1.2	
39									
40								1.9	
41				CLAYEY SAND: Fine grained, gray, wet					
42				SANDY CLAY: Gray, ferrous staining, dry, stiff		3.0	/2.7	2.2	
43									
44								2.2	
45									
46								2.3	
47									
48								1.8	
49				SAND: Gray, wet, medium to coarse grain, saturated					
50								1.9	

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SAMPLE / CORE LOG

Boring/Well: TP-PZ-01 Project No.: Mississippi Bluffs/LA002656.0001.00013

Site Location: Vicksburg, Mississippi Drilling Started: 4/19/07 Drilling Completed: 4/19/07

Land-Surface Elev.: _____ Surveyed: _____ Estimated: _____ Datum: _____

Drilling Fluid: None Drilling Method Used: Direct Push

Drilling Contractor: Devonian Driller: Dewayne Helper: Joe, Mark

Prepared By: G. Cook Hammer Weight: NA Hammer Drop (inches): NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
51									
52				- coarse-grain, pea gravel, saturated				1.8	
53		4.25							
54				CLAYEY SAND: Gray, wet				2.2	
55				SILTY SAND: Gray-dark gray throughout, saturated					
56								2.3	
57				- top of marl 57 ft bls - Total Depth 57 ft bls				2.5	
58				- Background OVA 0.2 PPM					
59									
60									
61									
62									
63									
64									
65									
66									
67									
68									
69									
70									
71									
72									
73									
74									
75									

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SAMPLE / CORE LOG

Boring/Well: TP-PZ-02 **Project No.:** Mississippi Bluffs/LA002656.0001.00013

Site Location: Vicksburg, Mississippi **Drilling Started:** 4/19/07 **Drilling Completed:** 4/19/07

Land-Surface Elev.: _____ **Surveyed:** ____ **Estimated:** ____ **Datum:** _____

Drilling Fluid: None **Drilling Method Used:** Direct Push

Drilling Contractor: Devonian **Driller:** Dewayne **Helper:** Joe, Mark

Prepared By: G. Cook **Hammer Weight:** NA **Hammer Drop (inches):** NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | ⧖ Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | ⧗ Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
0				SILT: Dark brown, plant material, damp, loose				1.6	
1									
2				- brown, dry, loose					
3		5.0							
4				- some clay - wet				1.8	⧖
5									
6				CLAYEY SILT: (10,90) brown with tan streaks, saturated				1.4	
7									
8		5.0						1.6	
9									
10								1.8	
11				- black natural organic stains, wet					
12								1.5	
13		5.0		- damp					
14								1.2	
15									
16				- wet				1.7	
17									
18		5.0						1.5	
19				- saturated SILT: Gray, some clay, wet					
20								1.3	
21				- wet					
22								1.3	
23		5.0		- saturated					
24								1.7	
25									

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SAMPLE / CORE LOG

Boring/Well: TP-PZ-02 Project No.: Mississippi Bluffs/LA002656.0001.00013

Site Location: Vicksburg, Mississippi Drilling Started: 4/19/07 Drilling Completed: 4/19/07

Land-Surface Elev.: _____ Surveyed: _____ Estimated: _____ Datum: _____

Drilling Fluid: None Drilling Method Used: Direct Push

Drilling Contractor: Devonian Driller: Dewayne Helper: Joe, Mark

Prepared By: G. Cook Hammer Weight: NA Hammer Drop (inches): NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
26								1.8	
27								1.7	
28		5.0							
29								1.9	
30				- wet					
31								1.9	
32									
33		5.0						1.8	
34									
35								2.0	
36				- wet					
37								2.1	
38		3.0							
39								2.2	
40									
41				- to shell fragments, wet				2.0	
42									
43								2.1	
44									
45								1.3	
46									
47								1.3	
48				- saturated					
49				(10, 90) gray, ferrous staining, dry, hard SILTY CLAY: - Total Depth 50 ft bls - Background OVA 0.1 PPM		>4.5/>4.5		1.2	
50									

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SAMPLE / CORE LOG

Boring/Well: TP-PZ-03 **Project No.:** Mississippi Bluffs/LA002656.0001.00013

Site Location: Vicksburg, Mississippi **Drilling Started:** 4/20/07 **Drilling Completed:** 4/20/07

Land-Surface Elev.: _____ **Surveyed:** _____ **Estimated:** _____ **Datum:** _____

Drilling Fluid: None **Drilling Method Used:** Direct Push

Drilling Contractor: Devonian **Driller:** Dewayne **Helper:** Joe, Mark

Prepared By: G. Cook **Hammer Weight:** NA **Hammer Drop (inches):** NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
0–1				FILL: Shells and silt					
1–2				SILT: Tan, dry, loose - brown, plant material, wet				1.5	⧖
2–3		5.0		- trace of clay					
3–4				- saturated				1.2	
4–5									
5–6								3.4	
6–7				- saturated					
7–8		5.0						3.7	
8–9									
9–10								3.8	
10–11									
11–12								1.6	
12–13		5.0		- saturated					
13–14								1.9	
14–15									
15–16								3.8	
16–17									
17–18		5.0						1.8	
18–19				- ferrous nodules, saturated, sticky					
19–20								6.4	
20–21									
21–22				- wet				4.6	
22–23		5.0		CLAYEY SILT: Brown and tan, ferrous nodules, wet					
23–24								6.4	
24–25				- increase in clay (30, 70)					
				- (40, 60) dry, very stiff					

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SAMPLE / CORE LOG

Boring/Well: TP-PZ-03 **Project No.:** Mississippi Bluffs/LA002656.0001.00013

Site Location: Vicksburg, Mississippi **Drilling Started:** 4/20/07 **Drilling Completed:** 4/20/07

Land-Surface Elev.: _____ **Surveyed:** _____ **Estimated:** _____ **Datum:** _____

Drilling Fluid: None **Drilling Method Used:** Direct Push

Drilling Contractor: Devonian **Driller:** Dewayne **Helper:** Joe, Mark

Prepared By: G. Cook **Hammer Weight:** NA **Hammer Drop (inches):** NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
26				- decrease in clay		3.5	/3.0	3.9	
27									
28		5.0		- brownish gray, increase in clay, dry, stiff		2.5	/2.7	4.4	
29				SANDY CLAY: Brownish gray, dry				2.3	
30				SAND: Rusty/brown, coarse grain, loose, wet					
31								1.4	
32				- tan with rusty brown streaks, saturated					
33		5.0						8.9	
34				- 4-inch clayey sand layer					
35				CLAY: Dark gray, ferrous nodules, dry, hard		4.0	/>4.8	11.9	
36									
37				- dry, hard					
38		5.0				>4.5	/>4.5	5.6	
39									
40				- dry, hard - Total Depth 40 ft bls - Background OVA 0.1 PPM		>4.5	/>0.5	4.7	
41									
42									
43									
44									
45									
46									
47									
48									
49									
50									

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SAMPLE / CORE LOG

Boring/Well: TP-PZ-04 **Project No.:** Mississippi Bluffs/LA002656.0001.00013

Site Location: Vicksburg, Mississippi **Drilling Started:** 4/23/07 **Drilling Completed:** 4/23/07

Land-Surface Elev.: _____ **Surveyed:** _____ **Estimated:** _____ **Datum:** _____

Drilling Fluid: None **Drilling Method Used:** Direct Push

Drilling Contractor: Devonian **Driller:** Dewayne **Helper:** Joe, Mark

Prepared By: G. Cook **Hammer Weight:** NA **Hammer Drop (inches):** NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
0				SILT: Dark brown, plant rootlets, dry, loose				0.5	
1									
2									
3		5.0						1.0	
4									
5								1.1	
6									
7								1.4	
8		4.5		CLAYEY SILT: (10, 90) dark brown, with tan pockets, plant material					
9								1.1	
10				- damp					
11								0.9	
12				- dark gray, increase in clay					
13		4.5				3.0	3.75		▽
14				- wet				0.7	
15									
16				- dry				0.8	
17				- peat material, damp					
18		4.5						0.7	
19									
20								1.1	
21				- damp, stiff					
22								1.2	
23		5.0							
24								1.1	
25									

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SAMPLE / CORE LOG

Boring/Well: TP-PZ-04 **Project No.:** Mississippi Bluffs/LA002656.0001.00013

Site Location: Vicksburg, Mississippi **Drilling Started:** 4/23/07 **Drilling Completed:** 4/23/07

Land-Surface Elev.: _____ **Surveyed:** ____ **Estimated:** ____ **Datum:** _____

Drilling Fluid: None **Drilling Method Used:** Direct Push

Drilling Contractor: Devonian **Driller:** Dewayne **Helper:** Joe, Mark

Prepared By: G. Cook **Hammer Weight:** NA **Hammer Drop (inches):** NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
26		5.0		- black natural organic material				1.3	
27									
28				- shell fragments, wet				1.4	
29									
30				- Total depth 30 ft bls				2.2	
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									
46									
47									
48									
49									
50									

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SAMPLE / CORE LOG

Boring/Well: TP-PZ-05 **Project No.:** Mississippi Bluffs/LA002656.0001.00013

Site Location: Vicksburg, Mississippi **Drilling Started:** 4/20/07 **Drilling Completed:** 4/20/07

Land-Surface Elev.: _____ **Surveyed:** ____ **Estimated:** ____ **Datum:** _____

Drilling Fluid: None **Drilling Method Used:** Direct Push

Drilling Contractor: Devonian **Driller:** Dewayne **Helper:** Joe, Mark

Prepared By: G. Cook **Hammer Weight:** NA **Hammer Drop (inches):** NA

Fill | Silty Clay | Silt | Sandy-Silt | Silty Sand | Shelby Tube | ⧖ Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | ⧗ Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
0				TOPSOIL:					
1				SILT: Brown, plant roots, dry, loose				3.2	
2									
3		5.0						3.5	
4									
5								3.3	
6				- streaks of light tan					
7				- dry, loose				2.7	
8		5.0							
9								3.1	
10									
11								4.2	
12									
13		5.0		- wet				1.2	⧗
14									
15								2.6	
16				- saturated					
17								1.2	
18		5.0							
19								2.9	
20									
21								3.7	
22				- some clay					
23		5.0		- saturated				1.9	
24									
25									

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SAMPLE / CORE LOG

Boring/Well: TP-PZ-05 Project No.: Mississippi Bluffs/LA002656.0001.00013

Site Location: Vicksburg, Mississippi Drilling Started: 4/20/07 Drilling Completed: 4/20/07

Land-Surface Elev.: _____ Surveyed: _____ Estimated: _____ Datum: _____

Drilling Fluid: None Drilling Method Used: Direct Push

Drilling Contractor: Devonian Driller: Dewayne Helper: Joe, Mark

Prepared By: G. Cook Hammer Weight: NA Hammer Drop (inches): NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
26								3.6	
27				- saturated					
28		5.0						6.6	
29									
30								4.1	
31									
32				- some clay				4.1	
33		5.0							
34								4.6	
35				CLAYEY SILT: (10, 50) gray, saturated					
36								4.5	
37									
38		5.0		- shell fragments				3.8	
39									
40								5.0	
41									
42								4.8	
43		5.0							
44								3.6	
45									
46								3.7	
47				- saturated					
48								2.1	
49									
50				- Total Depth 50 ft bls - Background OVA 0.1 PPM				3.7	

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SAMPLE / CORE LOG

Boring/Well: TP-PZ-06 Project No.: Mississippi Bluffs/LA002656.0001.00013

Site Location: Vicksburg, Mississippi Drilling Started: 4/23/07 Drilling Completed: 4/23/07

Land-Surface Elev.: _____ Surveyed: _____ Estimated: _____ Datum: _____

Drilling Fluid: None Drilling Method Used: Direct Push

Drilling Contractor: Devonian Driller: Dewayne Helper: Joe, Mark

Prepared By: G. Cook Hammer Weight: NA Hammer Drop (inches): NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | ⧖ Water First Encountered

Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | ⧗ Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
0				FILL: Topsoil, damp				7.1	
1									
2		4.0		SILT: Brown, abundant organic material, damp				1.7	
3									
4				- some clay, damp				1.6	
5									
6				- gray to dark gray organics, damp, soft				1.0	
7									
8		4.0		CLAYEY SILT: Brown to dark brown, ferrous staining, damp		<.5	<.5	0.5	
9									
10						<.5	<.5	0.7	
11									
12		3.0		- wet		<.5	<.5	2.1	
13						.25	.25		
14								2.8	
15									
16				- damp					
17		3.5				.25	.25	1.7	
18									
19						.5	.5	4.5	
20									
21		5.0		SILT: Brown to dark brown, ferrous staining, damp		.5	.8	2.1	
22									
23				- gray, wet				2.2	⧗
24									
25									

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SAMPLE / CORE LOG

Boring/Well: TP-PZ-06 **Project No.:** Mississippi Bluffs/LA002656.0001.00013

Site Location: Vicksburg, Mississippi **Drilling Started:** 4/23/07 **Drilling Completed:** 4/23/07

Land-Surface Elev.: _____ **Surveyed:** ____ **Estimated:** ____ **Datum:** _____

Drilling Fluid: None **Drilling Method Used:** Direct Push

Drilling Contractor: Devonian **Driller:** Dewayne **Helper:** Joe, Mark

Prepared By: G. Cook **Hammer Weight:** NA **Hammer Drop (inches):** NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
26								2.3	
27									
28		5.0						2.1	
29									
30				- Total Depth 30 ft bls				2.4	
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									
46									
47									
48									
49									
50									

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SAMPLE / CORE LOG

Boring/Well: TP-PZ-07 **Project No.:** Mississippi Bluffs/LA002656.0001.00013

Site Location: Vicksburg, Mississippi **Drilling Started:** 4/23/07 **Drilling Completed:** 4/23/07

Land-Surface Elev.: _____ **Surveyed:** ____ **Estimated:** ____ **Datum:** _____

Drilling Fluid: None **Drilling Method Used:** Direct Push

Drilling Contractor: Devonian **Driller:** Dewayne **Helper:** Joe, Mark

Prepared By: G. Cook **Hammer Weight:** NA **Hammer Drop (inches):** NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
0				FILL: Sand and silt					
1				SILT: Brown with dark brown streaks, ferrous staining, black material, dry, loose				1.2	
2									
3		5.0						1.3	
4									
5								1.4	
6				- brown, black natural organic stains, damp					
7								1.0	
8		5.0							▽
9				- wet				1.7	
10									
11								1.8	
12									
13		5.0		CLAYEY SILT: (40, 60) gray/black natural organic stains, dry, very stiff		3.0	3.75	5.2	
14									
15				SILT: Dark brown and gray, dry, loose				4.0	
16									
17				- some clay - damp				7.5	
18		5.0							
19								5.2	
20									
21								5.2	
22									
23		5.0		- wet				4.7	
24									
25									

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SAMPLE / CORE LOG

Boring/Well: TP-PZ-07 Project No.: Mississippi Bluffs/LA002656.0001.00013

Site Location: Vicksburg, Mississippi Drilling Started: 4/23/07 Drilling Completed: 4/23/07

Land-Surface Elev.: _____ Surveyed: _____ Estimated: _____ Datum: _____

Drilling Fluid: None Drilling Method Used: Direct Push

Drilling Contractor: Devonian Driller: Dewayne Helper: Joe, Mark

Prepared By: G. Cook Hammer Weight: NA Hammer Drop (inches): NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered

Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
26				- saturated				9.3	
27				- dry				6.5	
28		5.0							
29								6.9	
30				- Total Depth 30 ft bls					
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									
46									
47									
48									
49									
50									

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SAMPLE / CORE LOG

Boring/Well: LF-B-01 Project No.: Mississippi Bluffs/LA002656.0001.00016

Site Location: Vicksburg, Mississippi Drilling Started: 3/30/07 Drilling Completed: 3/30/07

Land-Surface Elev.: _____ Surveyed: _____ Estimated: _____ Datum: _____

Drilling Fluid: None Drilling Method Used: Direct Push

Drilling Contractor: Devonian Driller: Dewayne Helper: Brett

Prepared By: G. Cook Hammer Weight: NA Hammer Drop (inches): NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Acetate Sleeve | ⧖ Water First Encountered

Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | ⧗ Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
0				SILT: Brown, brownish gray rootlets, dry, loose				0	
1									
2				- limestone - dark brown					
3		5.0		CLAYEY SILT: (10,50) Dark brown rootlets, damp		1.0	/1.0	0	
4									
5						0.5	/0.5	0	
6									
7						<0.5	/<0.5	0	
8		5.0		- slight increase in moisture					
9						0.5	/0.5	0	
10									
11						<0.5	/<0.5	0	
12									
13		5.0				<0.5	/<0.5	0	
14				SILT: Brownish-tan pockets, dry, loose					
15								0	
16									
17								0	
18		4.5							
19								0	
20				- trace of clay					
21								0	
22									
23		4.75		CLAYEY SILT: Dark brown, damp				0	
24				- wet					⧗
25						0.5	/0.5	0	

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SAMPLE / CORE LOG

Boring/Well: LF-B-01 Project No.: Mississippi Bluffs/LA002656.0001.00016

Site Location: Vicksburg, Mississippi Drilling Started: 3/30/07 Drilling Completed: 3/30/07

Land-Surface Elev.: _____ Surveyed: ____ Estimated: ____ Datum: _____

Drilling Fluid: None Drilling Method Used: Direct Push

Drilling Contractor: Devonian Driller: Dewayne Helper: Brett

Prepared By: G. Cook Hammer Weight: NA Hammer Drop (inches): NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Acetate Sleeve | Water First Encountered

Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
26						0.5	/0.5	0	
27				- saturated		0.5	/<0.5	0	
28		5.0							
29						0.5	/<0.5	0	
30				- tan (20,80), saturated					
31						1.0	/0.75	0	
32									
33		5.0		- saturated		1.0	/1.0	0	
34									
35						1.0	/1.0	0	
36									
37						0.5	/1.0	0	
38		5.0							
39						1.0	/0.75	0	
40				- Total Depth 40 ft bls - Background OVA 0.0 PPM					
41									
42									
43									
44									
45									
46									
47									
48									
49									
50									

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SAMPLE / CORE LOG

Boring/Well: LF-B-02 Project No.: Mississippi Bluffs/LA002656.0001.00016

Site Location: Vicksburg, Mississippi Drilling Started: 3/29/07 Drilling Completed: 3/29/07

Land-Surface Elev.: _____ Surveyed: _____ Estimated: _____ Datum: _____

Drilling Fluid: None Drilling Method Used: Direct Push

Drilling Contractor: Devonian Driller: Dewayne Helper: Brett

Prepared By: G. Cook Hammer Weight: NA Hammer Drop (inches): NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Acetate Sleeve | Water First Encountered

Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
0				FILL: Whitish tan material, wet, silt, plant material				56	
1									
2				SILT: Dark brown, ferrous stains, dry, loose					
3		4.0		CLAYEY SILT: Dark brown, ferrous stains, wet		>4.5	>4.5	0	
4				CLAY: Dark brown, ferrous stains, dry, very hard					
5								0	
6									
7								7.7	
8		3.0		SILT: Tan/light brown, dry, loose					
9								78	
10				- dark brown, ferrous nodules					
11								12	
12				- dark gray nodules, dry, very compacted					
13		4.0						460	
14									
15								112	
16				FILL: Sludge like material, mush, tan with black streaks, wet, very soft					
17								78	
18		3.0		SILT: Dark brown, very compacted, dry					
19								156	
20									
21								0	
22									
23		3.5						71	
24									
25								48	

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SAMPLE / CORE LOG

Boring/Well: LF-B-02 Project No.: Mississippi Bluffs/LA002656.0001.00016

Site Location: Vicksburg, Mississippi Drilling Started: 3/29/07 Drilling Completed: 3/29/07

Land-Surface Elev.: _____ Surveyed: _____ Estimated: _____ Datum: _____

Drilling Fluid: None Drilling Method Used: Direct Push

Drilling Contractor: Devonian Driller: Dewayne Helper: Brett

Prepared By: G. Cook Hammer Weight: NA Hammer Drop (inches): NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Acetate Sleeve | Water First Encountered

Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
26–30		4.0		CLAYEY SILT: (10, 90) Brown ferrous nodules, wet				211	
30–35		5.0		- saturated				128 38 2.9	▽
35–40		5.0		- saturated - Total Depth 40 ft bls - Background OVA 0.0 PPM				40 28 2.4	

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SAMPLE / CORE LOG

Boring/Well: LF-B-03 Project No.: Mississippi Bluffs/LA002656.0001.00016

Site Location: Vicksburg, Mississippi Drilling Started: 3/29/07 Drilling Completed: 3/29/07

Land-Surface Elev.: _____ Surveyed: ____ Estimated: ____ Datum: _____

Drilling Fluid: None Drilling Method Used: Direct Push

Drilling Contractor: Devonian Driller: Dewayne Helper: Brett

Prepared By: G. Cook Hammer Weight: NA Hammer Drop (inches): NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered

Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
0				SILT: Dark brown, plant roots, dry, very loose				0	
1									
2									
3		5.0		- light tan, dry, very loose				0	
4									
5				- olive, slick to touch, damp				0	
6									
7				- pockets, pale yellow				1.2	
8		5.0		- dark brown, gravel, dry, compacted					
9								6.7	
10									
11								7.1	
12									
13		5.0						16.8	
14									
15								4.8	
16									
17								5.3	
18		5.0		- very slight trace of clay					
19								6.6	
20									
21								2.8	
22									
23		5.0						14.8	
24									
25								9.3	

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SAMPLE / CORE LOG

Boring/Well: LF-B-03 Project No.: Mississippi Bluffs/LA002656.0001.00016

Site Location: Vicksburg, Mississippi Drilling Started: 3/29/07 Drilling Completed: 3/29/07

Land-Surface Elev.: _____ Surveyed: ____ Estimated: ____ Datum: _____

Drilling Fluid: None Drilling Method Used: Direct Push

Drilling Contractor: Devonian Driller: Dewayne Helper: Brett

Prepared By: G. Cook Hammer Weight: NA Hammer Drop (inches): NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
26				CLAYEY SILT: (10,90) Brown to dark brown, wet					▽
27								9.1	
28		5.0		- saturated					
29				- light brown to tan				8.5	
30									
31				- ferrous nodules, saturated				6.2	
32									
33		5.0						6.1	
34									
35								4.8	
36									
37									
38		5.0		- saturated				3.2	
39									
40				- Total Depth 40 ft bls				2.9	
				- Background OVA 0.0 PPM					
41									
42									
43									
44									
45									
46									
47									
48									
49									
50									

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SAMPLE / CORE LOG

Boring/Well: LF-B-04 **Project No.:** Mississippi Bluffs/LA002656.0001.00016

Site Location: Vicksburg, Mississippi **Drilling Started:** 4/3/07 **Drilling Completed:** 4/4/07

Land-Surface Elev.: _____ **Surveyed:** _____ **Estimated:** _____ **Datum:** _____

Drilling Fluid: Potable Water **Drilling Method Used:** Hollow Stem

Drilling Contractor: Walker-Hill Environmental **Driller:** Brian **Helper:** Lane, Jonathan

Prepared By: G. Cook **Hammer Weight:** NA **Hammer Drop (inches):** NA

Fill, Silty Clay, Silt, Sandy Silt, Silty Sand, Acetate Sleeve, Water First Encountered
Clay, Sandy Clay, Clayey Silt, Sand, Clayey Sand, Split Spoon, Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
0				SILT: Brown to tan, plant material, dry loose, material from internal berm				0	
1		2.0							
2									
3		2.0		CLAYEY SILT: Brown, plant material, gravel, dry, hard		>4.5	>4.5	1.2	
4									
5		2.0		SILT: Pale yellow, dry, loose		>4.5	>4.5	>5077	
6				- could not extrude material in bottom of Shelby tube same as 5-6' interval					
7		0						NA	
8									
9		1.0						>5077	
10				- pale olive, slick to touch, damp, loose					
11		2.0						3580	
12									
13		2.0		CLAYEY SILT: Dark brown, pockets of liquid phase material, stiff		2.5	/2.5	1032	
14									
15		0		- could not extrude material same as 13-14' interval, only collected for OVM				13.8	
16									
17		2.0		SILT: Dark brown, dry, compacted		3.5	/3.0	13.7	
18				- brown, dry, loose					
19		2.0						163	
20									
21		0.25		- brown/tan, did not extrude, had to remove with hammer, only head space sample				172	
22									
23		0		- same as 20-22' interval				181	
24									
25		0						51	

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SAMPLE / CORE LOG

Boring/Well: LF-B-04 **Project No.:** Mississippi Bluffs/LA002656.0001.00016

Site Location: Vicksburg, Mississippi **Drilling Started:** 4/3/07 **Drilling Completed:** 4/4/07

Land-Surface Elev.: _____ **Surveyed:** _____ **Estimated:** _____ **Datum:** _____

Drilling Fluid: Potable Water **Drilling Method Used:** Hollow Stem

Drilling Contractor: Walker-Hill Environmental **Driller:** Brian **Helper:** Lane, Jonathan

Prepared By: G. Cook **Hammer Weight:** NA **Hammer Drop (inches):** NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Acetate Sleeve | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
26									⧖
27		2.0		- wet				0	
28				- saturated					
29		2.0				1.5	/1.5	0	
30				CLAYEY SILT: (10, 90) brown with dark brown specks, wet					
31		2.0				1.5	/1.5	0	
32									
33		2.0		- wet, soft		0.5	/0.25	0	
34				- ferrous staining, nodules, saturated					
35		2.0				1.0	/1.25	0	
36									
37		2.0		- slight increase in clay, ferrous staining, nodules, saturated		1.5	/1.0	0	
38									
39				No recovery					
40									
41									
42									
43				CLAYEY SILT: Saturated					
44		2.0				0.5	/0.75	0	
45									
46									
47									
48				CLAYEY SILT: Gray ferrous staining, nodules, shell fragments, saturated					
49		2.0				1.5	/1.5	0	
50									

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SAMPLE / CORE LOG

Boring/Well: LF-B-04 Project No.: Mississippi Bluffs/LA002656.0001.00016

Site Location: Vicksburg, Mississippi Drilling Started: 4/3/07 Drilling Completed: 4/4/07

Land-Surface Elev.: _____ Surveyed: ____ Estimated: ____ Datum: _____

Drilling Fluid: Potable Water Drilling Method Used: Hollow Stem

Drilling Contractor: Walker-Hill Environmental Driller: Brian Helper: Lane, Jonathan

Prepared By: G. Cook Hammer Weight: NA Hammer Drop (inches): NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Acetate Sleeve | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
53–55		2.0		CLAYEY SILT: Gray (30, 70) abundant shells, shell fragments, wet, medium		1.5	/1.0	0	
58–60		2.0		CLAYEY SILT: Gray, saturated		1.5	/1.0	0	
63–65		0.75		CLAYEY SILT: Gray, abundant shells, saturated		1.0	/1.0	0	
68–70		2.0		CLAYEY SILT: Increase in clay (45, 55) saturated, black natural organic staining, damp, medium		1.0	/1.0	8.4	
73–75		2.0		CLAYEY SAND: (45, 55) gray to blue gray, fine to medium grain, wet, soft		0.5	/0.5	6.1	

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SAMPLE / CORE LOG

Boring/Well: LF-B-04 **Project No.:** Mississippi Bluffs/LA002656.0001.00016

Site Location: Vicksburg, Mississippi **Drilling Started:** 4/3/07 **Drilling Completed:** 4/4/07

Land-Surface Elev.: _____ **Surveyed:** _____ **Estimated:** _____ **Datum:** _____

Drilling Fluid: Potable Water **Drilling Method Used:** Hollow Stem

Drilling Contractor: Walker-Hill Environmental **Driller:** Brian **Helper:** Lane, Jonathan

Prepared By: G. Cook **Hammer Weight:** NA **Hammer Drop (inches):** NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Acetate Sleeve | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
76									
77									
78				Refusal at 78 ft bls top of marl - Total Depth 78 ft bls - Background OVA 0.0 PPM					
79									
80									
81									
82									
83									
84									
85									
86									
87									
88									
89									
90									
91									
92									
93									
94									
95									
96									
97									
98									
99									
100									

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SAMPLE / CORE LOG

Boring/Well: LF-B-05 **Project No.:** Mississippi Bluffs/LA002656.0001.00016

Site Location: Vicksburg, Mississippi **Drilling Started:** 3/27/07 **Drilling Completed:** 4/5/07

Land-Surface Elev.: _____ **Surveyed:** _____ **Estimated:** _____ **Datum:** _____

Drilling Fluid: None **Drilling Method Used:** Hollow Stem

Drilling Contractor: Walker-Hill Environmental **Driller:** Brian **Helper:** Lane, Jonathan

Prepared By: G. Cook **Hammer Weight:** 140 **Hammer Drop (inches):** 36

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Acetate Sleeve | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
0									
1		2.0		SILT: Tan, trace of ferrous stain nodules, rootlets, loose, dry, compacted, friable		3.5	/4.0	0	
2									
3		2.0		CLAYEY SILT: (10,90), tan, ferrous stain, rootlets dry		3.5	/3.0	0	
4				- slight increase in clay - brown with tan streaks (30,70)					
5		2.0		- damp, medium		1.5	/1.75	0	
6				- damp					
7		2.0		- dry, stiff		3.0	/3.25	0	
8				- increase in silt, compacted, dry					
9		2.0				3.0	/3.0	0	
10				- brown to dark brown with small black particles, dry, compact					
11		2.0				3.5	/3.0	0	
12				SILT: Dark brown, friable, dry					
13		2.0						0	
14				- no recovery 14-16					
15		0							
16				- no recovery 16-18					
17		0							
18				SILT: Dark brown, friable, dry					
19		2.0						0	
20									
21		0.5						0	
22									
23		0.5						0	
24									
25		0.5						0	

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SAMPLE / CORE LOG

Boring/Well: LF-B-05 Project No.: Mississippi Bluffs/LA002656.0001.00016

Site Location: Vicksburg, Mississippi Drilling Started: 3/27/07 Drilling Completed: 4/5/07

Land-Surface Elev.: _____ Surveyed: _____ Estimated: _____ Datum: _____

Drilling Fluid: None Drilling Method Used: Hollow Stem

Drilling Contractor: Walker-Hill Environmental Driller: Brian Helper: Lane, Jonathan

Prepared By: G. Cook Hammer Weight: 140 Hammer Drop (inches): 36

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Acetate Sleeve | Water First Encountered

Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
26						8			
27		1.5				11			
28						14		0	
29		1.5		CLAYEY SILT: (10, 90), tan ferrous stain, nodules, wet		9		0	⧖
30						7			
31		0		- no recovery with Shelby tube		10			
32				CLAYEY SILT: - saturated		6			
33		1.5				5			
34						9		0	
35		1.75		- increase in clay (25,75), saturated		3			
36						3			
37		2.0				5		0	
38						6			
39		2.0				3			
40						6		0	
41						4			
42						2			
43						4		0	
44				CLAYEY SILT: Brown, ferrous staining, wet					
45		2.0				1.0	/1.5	0	
46									
47									
48									
49				CLAYEY SILT: Gray, saturated, soft					
50		0				0.25	/0.5	0	

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SAMPLE / CORE LOG

Boring/Well: LF-B-05 **Project No.:** Mississippi Bluffs/LA002656.0001.00016

Site Location: Vicksburg, Mississippi **Drilling Started:** 3/27/07 **Drilling Completed:** 4/5/07

Land-Surface Elev.: _____ **Surveyed:** _____ **Estimated:** _____ **Datum:** _____

Drilling Fluid: None **Drilling Method Used:** Hollow Stem

Drilling Contractor: Walker-Hill Environmental **Driller:** Brian **Helper:** Lane, Jonathan

Prepared By: G. Cook **Hammer Weight:** 140 **Hammer Drop (inches):** 36

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Acetate Sleeve | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
51									
52									
53									
54				CLAYEY SILT: Gray, increase in clay, wet, soft					
55		2.0				1.0	/1.0	0	
56									
57									
58									
59				CLAYEY SILT: Increase in silt, shell fragments, saturated					
60		2.0				0.5	/0.5	0	
61									
62									
63									
64				CLAYEY SILT: (30, 70) saturated					
65		2.0				1.0	/1.5	0	
66									
67									
68									
69				SANDY CLAY: Gray to blackish gray, damp, medium					
70		2.0				1.75	/0.5	0	
71									
72									
73									
74				SAND: Gray, medium grain, shells, gravel, trace of clay, saturated					
75								45.5	

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SAMPLE / CORE LOG

Boring/Well: LF-B-05 **Project No.:** Mississippi Bluffs/LA002656.0001.00016

Site Location: Vicksburg, Mississippi **Drilling Started:** 3/27/07 **Drilling Completed:** 4/5/07

Land-Surface Elev.: _____ **Surveyed:** ____ **Estimated:** ____ **Datum:** _____

Drilling Fluid: None **Drilling Method Used:** Hollow Stem

Drilling Contractor: Walker-Hill Environmental **Driller:** Brian **Helper:** Lane, Jonathan

Prepared By: G. Cook **Hammer Weight:** 140 **Hammer Drop (inches):** 36

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Acetate Sleeve | Water First Encountered

Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
76				- Refusal at 76 ft top of marl					
77									
78									
79									
80									
81									
82									
83									
84									
85									
86									
87									
88									
89									
90									
91									
92									
93									
94									
95									
96									
97									
98									
99									
100									

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SAMPLE / CORE LOG

Boring/Well: LF-B-06 **Project No.:** Mississippi Bluffs/LA002656.0001.00016

Site Location: Vicksburg, Mississippi **Drilling Started:** 4/6/07 **Drilling Completed:** 4/6/07

Land-Surface Elev.: _____ **Surveyed:** ____ **Estimated:** ____ **Datum:** _____

Drilling Fluid: None **Drilling Method Used:** Hollow Stem

Drilling Contractor: Walker-Hill Environmental **Driller:** Brian **Helper:** Lane, Jonathan

Prepared By: G. Cook **Hammer Weight:** NA **Hammer Drop (inches):** NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
0				SILT: Brown to dark brown, plant and plant roots, dry, loose					
1		2.0		- damp				0	
2									
3		2.0		- brown				0	
4									
5		2.0						1.9	
6				- ferrous nodules					
7		2.0						3.0	
8									
9		2.0		CLAYEY SILT: Brown with tan pockets, plant material, damp, soft		2.0	/2.0	6.4	
10									
11		2.0		- pockets, pale white, pale yellow				9.1	
12									
13		2.0		- black pockets				9.0	
14									
15		2.0		- pockets, pale white, pale yellow				15.3	
16									
17									
18									
19				CLAYEY SILT: Brown, pockets, pale white, dry					
20		2.0		SILT: Gray, hard material, dry, loose				255	
21									
22									
23									
24									
25		2.0		CLAYEY SILT: Gray, black streaks, dry, loose		4.0	/4.0	128	

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SAMPLE / CORE LOG

Boring/Well: LF-B-06 **Project No.:** Mississippi Bluffs/LA002656.0001.00016

Site Location: Vicksburg, Mississippi **Drilling Started:** 4/6/07 **Drilling Completed:** 4/6/07

Land-Surface Elev.: _____ **Surveyed:** _____ **Estimated:** _____ **Datum:** _____

Drilling Fluid: None **Drilling Method Used:** Hollow Stem

Drilling Contractor: Walker-Hill Environmental **Driller:** Brian **Helper:** Lane, Jonathan

Prepared By: G. Cook **Hammer Weight:** NA **Hammer Drop (inches):** NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
26				SILT: - gray, loose					
27									
28									
29				SILT: Gray, dry, loose					
30		2.0						667	
31									
32									
33									
34				CLAYEY SILT: Brown, dense					
35		2.0				1.0	/1.0	266	
36									
37									
38									
39									
40		0		- no recovery					
41									
42									
43									
44				SILTY CLAY: Brown, ferrous staining, saturated					
45		2.0						9	
46				- Total Depth 46 ft bls					
47									
48									
49									
50									

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SAMPLE / CORE LOG

Boring/Well: LF-B-07 **Project No.:** Mississippi Bluffs/LA002656.0001.00016

Site Location: Vicksburg, Mississippi **Drilling Started:** 4/10/07 **Drilling Completed:** 4/10/07

Land-Surface Elev.: _____ **Surveyed:** _____ **Estimated:** _____ **Datum:** _____

Drilling Fluid: None **Drilling Method Used:** Hollow Stem

Drilling Contractor: Walker-Hill Environmental **Driller:** Brian **Helper:** Lane, Jonathan

Prepared By: G. Cook **Hammer Weight:** NA **Hammer Drop (inches):** NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (w/o/F) (ppm)	REMARKS
0									
1		2.0		SILT: Tan, grass, dry, loose				0	
2				- brown, rootlets, dry, loose					
3		2.0						0	
4									
5		2.0						0	
6									
7		2.0				3.0	/2.75	0	
8									
9		2.0						0	
10									
11		2.0						0	
12									
13		2.0						0	
14									
15		2.0						0	
16				- brown with tan pockets, dry, friable					
17		2.0						0	
18									
19		2.0		- damp				0	
20									
21									
22									
23									
24									
25		2.0		SILTY CLAY: Brown with tan streaks, ferrous streaks, saturated, very silty		0.5	/0.5	0	

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SAMPLE / CORE LOG

Boring/Well: LF-B-07 Project No.: Mississippi Bluffs/LA002656.0001.00016

Site Location: Vicksburg, Mississippi Drilling Started: 4/10/07 Drilling Completed: 4/10/07

Land-Surface Elev.: _____ Surveyed: _____ Estimated: _____ Datum: _____

Drilling Fluid: None Drilling Method Used: Hollow Stem

Drilling Contractor: Walker-Hill Environmental Driller: Brian Helper: Lane, Jonathan

Prepared By: G. Cook Hammer Weight: NA Hammer Drop (inches): NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
29				SILTY CLAY: Saturated					
30		2.0				1.5	/0.5	0	
34				SILTY CLAY: Shell fragments, saturated					
35		2.0				0.5	/0.5	0	
39				SILTY CLAY: Ferrous nodules, staining, saturated					
40		2.0				2.0	/1.0	0	
44				SILTY CLAY: Gray, shell fragments, increase in clay, saturated					
45		2.0				1.5	/1.0	0	
49				SILTY CLAY: Gray, shell fragments, wet, stiff					
50		2.0				2.5	/2.25	0	

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SAMPLE / CORE LOG

Boring/Well: LF-B-07 **Project No.:** Mississippi Bluffs/LA002656.0001.00016

Site Location: Vicksburg, Mississippi **Drilling Started:** 4/10/07 **Drilling Completed:** 4/10/07

Land-Surface Elev.: _____ **Surveyed:** ____ **Estimated:** ____ **Datum:** _____

Drilling Fluid: None **Drilling Method Used:** Hollow Stem

Drilling Contractor: Walker-Hill Environmental **Driller:** Brian **Helper:** Lane, Jonathan

Prepared By: G. Cook **Hammer Weight:** NA **Hammer Drop (Inches):** NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
54		1.5		SILTY CLAY: Gray, saturated		0.5	/0.5	0	
59		2.0		SILTY CLAY: Saturated		0.5	/0.5	0	
61				- Total Depth 61 ft bls					

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SAMPLE / CORE LOG

Boring/Well: LF-B-08 Project No.: Mississippi Bluffs/LA002656.0001.00016

Site Location: Vicksburg, Mississippi Drilling Started: 4/5/07 Drilling Completed: 4/5/07

Land-Surface Elev.: _____ Surveyed: _____ Estimated: _____ Datum: _____

Drilling Fluid: None Drilling Method Used: Hollow Stem

Drilling Contractor: Walker-Hill Environmental Driller: Brian Helper: Lane, Jonathan

Prepared By: G. Cook Hammer Weight: NA Hammer Drop (inches): NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
0				CLAYEY SILT: Brown to dark brown, plant material, dry					
1		2.0		SILT: Brown to dark brown, plant material, dry, compact				0	
2									
3		2.0		- brownish gray, ferrous staining, dry, loose				0	
4									
5		2.0		- brown, dry, friable				0	
6									
7		2.0						0	
8									
9		2.0						0	
10									
11		2.0						0	
12									
13		2.0						0	
14									
15		2.0						0	
16									
17									
18									
19		2.0		SILT: Brown with pockets, tan, dry, friable					
20								0	
21									
22									
23									
24				SILT: Brown, dry, friable					
25		2.0						0	

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SAMPLE / CORE LOG

Boring/Well: LF-B-08 Project No.: Mississippi Bluffs/LA002656.0001.00016

Site Location: Vicksburg, Mississippi Drilling Started: 4/5/07 Drilling Completed: 4/5/07

Land-Surface Elev.: _____ Surveyed: ____ Estimated: ____ Datum: _____

Drilling Fluid: None Drilling Method Used: Hollow Stem

Drilling Contractor: Walker-Hill Environmental Driller: Brian Helper: Lane, Jonathan

Prepared By: G. Cook Hammer Weight: NA Hammer Drop (inches): NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H / V	OVM (wo/F) (ppm)	REMARKS
29–31		2.0		CLAYEY SILT: (10, 50) brown ferrous staining, nodules - wet - saturated		0.75/0.75	0	▽
34–36		2.0		CLAYEY SILT: Brown to dark brown, ferrous staining, saturated		0.5 /0.5	0	
39–41		2.0		CLAYEY SILT: Brown to dark brown, ferrous nodules, saturated - Total Depth 41 ft bls		1.0 /1.0	0	

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SAMPLE / CORE LOG

Boring/Well: LF-B-09 **Project No.:** Mississippi Bluffs/LA002656.0001.00016

Site Location: Vicksburg, Mississippi **Drilling Started:** 4/5/07 **Drilling Completed:** 4/9/07

Land-Surface Elev.: _____ **Surveyed:** _____ **Estimated:** _____ **Datum:** _____

Drilling Fluid: None **Drilling Method Used:** Hollow Stem

Drilling Contractor: Walker-Hill Environmental **Driller:** Brian **Helper:** Lane, Jonathan

Prepared By: G. Cook **Hammer Weight:** NA **Hammer Drop (inches):** NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
0				SILT: Brown and brownish gray, grass covered, dry, loose					
1		2.0						0	
2									
3		2.0		CLAYEY SILT: Tan, damp		1.75	1.75	0	
4				SILT: Tan and brown, ferrous staining, dry, loose					
5		2.0						0	
6									
7		2.0						0	
8									
9		2.0						0	
10									
11		2.0						0	
12									
13		2.0						0	
14									
15		2.0						0	
16									
17		2.0						0	
18									
19		2.0						0	
20									
21		2.0						0.4	
22				- some clay, damp					
23		2.0				2.0	1.75	0.5	
24									
25		2.0						0.6	

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SAMPLE / CORE LOG

Boring/Well: LF-B-09 Project No.: Mississippi Bluffs/LA002656.0001.00016

Site Location: Vicksburg, Mississippi Drilling Started: 4/5/07 Drilling Completed: 4/9/07

Land-Surface Elev.: _____ Surveyed: _____ Estimated: _____ Datum: _____

Drilling Fluid: None Drilling Method Used: Hollow Stem

Drilling Contractor: Walker-Hill Environmental Driller: Brian Helper: Lane, Jonathan

Prepared By: G. Cook Hammer Weight: NA Hammer Drop (inches): NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
26				CLAYEY SILT: Brown with tan pockets, damp		0.25	/0.5		
27		2.0		- wet					
28				- saturated		1.5	/1.5	0.03	
29		2.0		- trace of shell fragments		0.5	/0.75	0.07	
30									
31		2.0				0.5	/0.5	2.0	
32				- wet, ferrous nodules, staining					
33		2.0				1.0	/1.0	2.5	
34									
35		2.0		- trace of dark brown specks		0.5	/0.5	2.7	
36									
37		1.0				0.5	/0.5	3.7	
38									
39		2.0		- saturated		1.0	/1.0	2.3	
40									
41									
42									
43									
44				SILTY CLAY: Slight increase in silt, wet					
45		2.0				1.5	/2.0	2.5	
46									
47									
48									
49									
50		2.0		SILTY CLAY: Gray, shells, shell fragments, wet		2.0	/2.5		

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SAMPLE / CORE LOG

Boring/Well: LF-B-09 **Project No.:** Mississippi Bluffs/LA002656.0001.00016

Site Location: Vicksburg, Mississippi **Drilling Started:** 4/5/07 **Drilling Completed:** 4/9/07

Land-Surface Elev.: _____ **Surveyed:** ____ **Estimated:** ____ **Datum:** _____

Drilling Fluid: None **Drilling Method Used:** Hollow Stem

Drilling Contractor: Walker-Hill Environmental **Driller:** Brian **Helper:** Lane, Jonathan

Prepared By: G. Cook **Hammer Weight:** NA **Hammer Drop (inches):** NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
51								0	
52									
53									
54				SILTY CLAY: Gray, trace of shells, saturated					
55		1.0				2.0	/2.0	0	
56									
57									
58									
59				SILTY CLAY: Gray, trace of shell fragments, wet					
60		2.0				2.0	/2.25	0	
61									
62									
63									
64				SANDY CLAY: Gray to bluish gray, damp, medium					
65		2.0				1.5	/1.0	0	
66									
67									
68									
69				SAND: Gray, fine to medium grain, saturated					
70		1.0						0	
71									
72									
73									
74				SAND: Fine to medium grain, saturated					
75				FILL: Marl. Refusal at 75.5 ft				20	

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SAMPLE / CORE LOG

Boring/Well: LF-B-10 **Project No.:** Mississippi Bluffs/LA002656.0001.00016

Site Location: Vicksburg, Mississippi **Drilling Started:** 4/5/07 **Drilling Completed:** 4/5/07

Land-Surface Elev.: _____ **Surveyed:** _____ **Estimated:** _____ **Datum:** _____

Drilling Fluid: None **Drilling Method Used:** Hollow Stem

Drilling Contractor: Walker-Hill Environmental **Driller:** Brian **Helper:** Lane, Jonathan

Prepared By: G. Cook **Hammer Weight:** NA **Hammer Drop (inches):** NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
0				SILTY CLAY: Brown to dark brown, plant material, dry, stiff					
1		2.0		SILT: Brown, plant material, dry, friable		3.0	/2.0	0	
2									
3		2.0						0	
4									
5		2.0						0	
6									
7		2.0						0	
8				- damp					
9		2.0						0	
10									
11		2.0				0.75	/0.75	0	
12									
13		2.0		- dry, friable				0	
14									
15		0.5						0	
16									
17									
18									
19				SILT: Dark brown with tan pockets, dry, friable					
20		2.0						0	
21									
22									
23									
24									
25								0	

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SAMPLE / CORE LOG

Boring/Well: LF-B-10 **Project No.:** Mississippi Bluffs/LA002656.0001.00016

Site Location: Vicksburg, Mississippi **Drilling Started:** 4/5/07 **Drilling Completed:** 4/5/07

Land-Surface Elev.: _____ **Surveyed:** _____ **Estimated:** _____ **Datum:** _____

Drilling Fluid: None **Drilling Method Used:** Hollow Stem

Drilling Contractor: Walker-Hill Environmental **Driller:** Brian **Helper:** Lane, Jonathan

Prepared By: G. Cook **Hammer Weight:** NA **Hammer Drop (inches):** NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H V	OVM (wo/F) (ppm)	REMARKS
26				CLAYEY SILT: Dark brown, ferrous staining, saturated				
27								
28								
29				CLAYEY SILT: - saturated				
30		2.0				1.5 /1.5	0	
31								
32								
33								
34				CLAYEY SILT:				
35		2.0				1.5 /1.5		
36								
37								
38								
39				CLAYEY SILT: - saturated				
40		2.0				1.5 /1.0	0	
41				- Total Depth 41 ft bls - Background OVA 0.0 PPM				
42								
43								
44								
45								
46								
47								
48								
49								
50								

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SAMPLE / CORE LOG

Boring/Well: LF-B-11 **Project No.:** Mississippi Bluffs/LA002656.0001.00016

Site Location: Vicksburg, Mississippi **Drilling Started:** 4/10/07 **Drilling Completed:** 4/10/07

Land-Surface Elev.: _____ **Surveyed:** ____ **Estimated:** ____ **Datum:** _____

Drilling Fluid: None **Drilling Method Used:** Hollow Stem

Drilling Contractor: Walker-Hill Environmental **Driller:** Brian **Helper:** Lane, Jonathan

Prepared By: G. Cook **Hammer Weight:** NA **Hammer Drop (inches):** NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
0–1		2.0		SILT: Dark brown, grass				0	
1–2				- brown, pocket tan, dry, friable					
2–3		2.0						0	
3–4									
4–5		2.0						0	
5–6									
6–7		2.0						0	
7–8									
8–9		2.0						0	
9–10									
10–11		2.0						0	
11–12									
12–13		2.0						0	
13–14									
14–15		2.0		- some clay, damp				0	
15–16									
16–17									
17–18									
18–19									
19–20		2.0		CLAYEY SILT: Dark brown to brown, ferrous staining, saturated, soft		0.5	/0.5	0	
20–21									
21–22									
22–23									
23–24									
24–25		2.0		SILTY CLAY: Brown, ferrous staining, saturated		2.5	/2.0	0	

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SAMPLE / CORE LOG

Boring/Well: LF-B-11 **Project No.:** Mississippi Bluffs/LA002656.0001.00016

Site Location: Vicksburg, Mississippi **Drilling Started:** 4/10/07 **Drilling Completed:** 4/10/07

Land-Surface Elev.: _____ **Surveyed:** _____ **Estimated:** _____ **Datum:** _____

Drilling Fluid: None **Drilling Method Used:** Hollow Stem

Drilling Contractor: Walker-Hill Environmental **Driller:** Brian **Helper:** Lane, Jonathan

Prepared By: G. Cook **Hammer Weight:** NA **Hammer Drop (inches):** NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
29		2.0		SILTY CLAY: Brown pocket, tan ferrous nodules, saturated		2.5	/2.25	0	
34		2.0		SILTY CLAY: Brown/tan, abundant ferrous material, staining, streaks, black natural organic staining, saturated		2.5	/2.5	0	
39		2.0		SILTY CLAY: Gray, trace of black natural organic staining, saturated		2.5	/3.0	0	
41				- Total Depth 41 ft bls					

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SAMPLE / CORE LOG

Boring/Well: LF-B-12 **Project No.:** Mississippi Bluffs/LA002656.0001.00016

Site Location: Vicksburg, Mississippi **Drilling Started:** 4/6/07 **Drilling Completed:** 4/6/07

Land-Surface Elev.: _____ **Surveyed:** _____ **Estimated:** _____ **Datum:** _____

Drilling Fluid: None **Drilling Method Used:** Hollow Stem

Drilling Contractor: Walker-Hill Environmental **Driller:** Brian **Helper:** Lane, Jonathan

Prepared By: G. Cook **Hammer Weight:** NA **Hammer Drop (inches):** NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
0				SILT: Brown, grass covered, dry, loose					
1		2.0		CLAYEY SILT: Dark brown, ferrous staining, roots, dry, hard		4.0	/4.0	0	
2									
3		2.0		SILT: Brown to dark brown, ferrous staining, rootlets, dry, loose				0	
4									
5		2.0		- trace of clay		2.0	/2.0	0	
6									
7		2.0				1.5	/1.5	0	
8									
9		2.0		- friable				1.1	
10									
11		2.0						1.3	
12									
13		2.0						0.7	
14									
15		2.0						0.4	
16									
17									
18									
19				SILT: Dark brown, dry, friable					
20		2.0						0.2	
21									
22									
23									
24				CLAYEY SILT: Dark brown, ferrous staining					▽
25		2.0		- wet					

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SAMPLE / CORE LOG

Boring/Well: LF-B-12 **Project No.:** Mississippi Bluffs/LA002656.0001.00016

Site Location: Vicksburg, Mississippi **Drilling Started:** 4/6/07 **Drilling Completed:** 4/6/07

Land-Surface Elev.: _____ **Surveyed:** _____ **Estimated:** _____ **Datum:** _____

Drilling Fluid: None **Drilling Method Used:** Hollow Stem

Drilling Contractor: Walker-Hill Environmental **Driller:** Brian **Helper:** Lane, Jonathan

Prepared By: G. Cook **Hammer Weight:** NA **Hammer Drop (inches):** NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H V	OVM (wo/F) (ppm)	REMARKS
26							0.1	
27								
28								
29				CLAYEY SILT: Dark brown, ferrous staining, saturated				
30		2.0				1.75/1.75	0.1	
31								
32								
33								
34				CLAYEY SILT: Saturated				
35		2.0				1.75/1.75	0.6	
36								
37								
38								
39				CLAYEY SILT: Ferrous nodules and staining, saturated				
40		2.0				1.5 /1.0	0.6	
41				- Total Depth 41 ft bls - Background OVA 0.0 PPM				
42								
43								
44								
45								
46								
47								
48								
49								
50								

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SAMPLE / CORE LOG

Boring/Well: LF-B-13 **Project No.:** Mississippi Bluffs/LA002656.0001.00016

Site Location: Vicksburg, Mississippi **Drilling Started:** 4/9/07 **Drilling Completed:** 4/9/07

Land-Surface Elev.: _____ **Surveyed:** _____ **Estimated:** _____ **Datum:** _____

Drilling Fluid: None **Drilling Method Used:** Hollow Stem

Drilling Contractor: Walker-Hill Environmental **Driller:** Brian **Helper:** Lane, Jonathan

Prepared By: G. Cook **Hammer Weight:** NA **Hammer Drop (inches):** NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
0				CLAYEY SILT: Brown to dark brown, grass, dry, soft					
1		2.0		SILT: Brown/tan, rootlets, dry, loose				0	
2				SILTY CLAY: Brown, rootlets, dry, stiff					
3		2.0		SILT: Tan/brown, ferrous nodules, staining, rootlets, dry, loose				0	
4				- dark brown, tan, dry					
5		2.0		CLAYEY SILT: (40, 60) dark brown, ferrous staining, black specks, dry, stiff to very stiff		2.0	/2.75	0	
6									
7		2.0				2.5	/2.5	1.5	
8				- specks of light tan, damp					
9		2.0				2.0	/2.0	17	
10									
11		2.0		- trace of black glass-like material, dry		1.5	/1.5	5.4	
12									
13		2.0		- (50, 50) damp, very stiff		0.25	/0.25	45	
14									
15		2.0				0.25	/0.25	233	
16									
17		2.0				<0.2	/<0.25	306	
18									
19		1.0		SILT: Light brown/tan, dry, loose				39	
20									
21		1.5						88	
22									
23				CLAYEY SILT: Light brown, damp, loose				32	
24									▽
25				- wet					

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SAMPLE / CORE LOG

Boring/Well: LF-B-13 Project No.: Mississippi Bluffs/LA002656.0001.00016

Site Location: Vicksburg, Mississippi Drilling Started: 4/9/07 Drilling Completed: 4/9/07

Land-Surface Elev.: _____ Surveyed: ____ Estimated: ____ Datum: _____

Drilling Fluid: None Drilling Method Used: Hollow Stem

Drilling Contractor: Walker-Hill Environmental Driller: Brian Helper: Lane, Jonathan

Prepared By: G. Cook Hammer Weight: NA Hammer Drop (inches): NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
26								25	
27		2.0		- wet, medium		1.5	/1.75	4	
28				- grayish brown, saturated, very soft					
29		2.0				<0.2	/<0.25	3	
30									
31		2.0		- saturated, very soft		<0.2	/<0.25	4.4	
32				- tan, shell fragments, saturated					
33		2.0						3.3	
34									
35		2.0				0.75	/0.75	1.9	
36									
37		2.0				1.5	/1.25	1.4	
38									
39		2.0		- saturated		0.5	/0.5	1.8	
40									
41									
42									
43									
44				CLAYEY SILT: Brown/tan shell fragment, wet					
45		2.0				0.5	/0.5	2.0	
46									
47									
48									
49				CLAYEY SILT: Gray streaks of black natural organic staining, wet, medium					
50						1.5	/1.5	2.8	

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SAMPLE / CORE LOG

Boring/Well: LF-B-13 **Project No.:** Mississippi Bluffs/LA002656.0001.00016

Site Location: Vicksburg, Mississippi **Drilling Started:** 4/9/07 **Drilling Completed:** 4/9/07

Land-Surface Elev.: _____ **Surveyed:** ____ **Estimated:** ____ **Datum:** _____

Drilling Fluid: None **Drilling Method Used:** Hollow Stem

Drilling Contractor: Walker-Hill Environmental **Driller:** Brian **Helper:** Lane, Jonathan

Prepared By: G. Cook **Hammer Weight:** NA **Hammer Drop (inches):** NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
51		2.0							
52									
53									
54				CLAYEY SILT: Gray, saturated					
55		2.0				1.0	/1.0	0	
56									
57									
58									
59				CLAYEY SILT: Gray, trace of shell fragement, saturated					
60		2.0				1.5	/1.5	0	
61									
62									
63									
64				CLAYEY SILT: Gray, damp, saturated					
65		2.0		- trace of very fine sand				1.0	
66				SANDY CLAY: Gray, damp					
67									
68									
69				SAND: Gray, fine to medium grain, saturated					
70		1.5		- 3 inch clayey sand layer					
71				- 4 inches, sand, gravel, shell					
72									
73									
74				FILL: Top of marl					
75		2.0							

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SAMPLE / CORE LOG

Boring/Well: LF-B-13 **Project No.:** Mississippi Bluffs/LA002656.0001.00016

Site Location: Vicksburg, Mississippi **Drilling Started:** 4/9/07 **Drilling Completed:** 4/9/07

Land-Surface Elev.: _____ **Surveyed:** _____ **Estimated:** _____ **Datum:** _____

Drilling Fluid: None **Drilling Method Used:** Hollow Stem

Drilling Contractor: Walker-Hill Environmental **Driller:** Brian **Helper:** Lane, Jonathan

Prepared By: G. Cook **Hammer Weight:** NA **Hammer Drop (inches):** NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
76				- Total Depth 76 ft bls					
77									
78									
79									
80									
81									
82									
83									
84									
85									
86									
87									
88									
89									
90									
91									
92									
93									
94									
95									
96									
97									
98									
99									
100									

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SAMPLE / CORE LOG

Boring/Well: LF-B-14 **Project No.:** Mississippi Bluffs/LA002656.0001.00016

Site Location: Vicksburg, Mississippi **Drilling Started:** 3/29/07 **Drilling Completed:** 3/29/07

Land-Surface Elev.: _____ **Surveyed:** ____ **Estimated:** ____ **Datum:** _____

Drilling Fluid: None **Drilling Method Used:** Direct Push

Drilling Contractor: Devonian **Driller:** Dewayne **Helper:** Brett

Prepared By: G. Cook **Hammer Weight:** NA **Hammer Drop (inches):** NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
0				SILT: Tan, plant material, very loose, dry					
1									
2									
3		5		- brown streaks, black natrual organic stains, dry					
4				- trace of clay					
5									
6				CLAYEY SILT: Dark brown rootlets, damp					
7									
8		4.5		- Increase in clay (30, 70) very damp		1.5	/1.0		
9				- plant material					▽
10				- light brown/tan, wet - concretions					
11									
12				- ferrous nodules					
13		4.5		- slight increase in silt, saturated		1.0	/0.5		
14									
15									
16									
17									
18		5		- saturated		1.0	/1.0		
19									
20									
21				- gray (15,85), saturated					
22									
23		4.5				1.0	/1.25		
24									
25									

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SAMPLE / CORE LOG

Boring/Well: LF-B-14 **Project No.:** Mississippi Bluffs/LA002656.0001.00016

Site Location: Vicksburg, Mississippi **Drilling Started:** 3/29/07 **Drilling Completed:** 3/29/07

Land-Surface Elev.: _____ **Surveyed:** ____ **Estimated:** ____ **Datum:** _____

Drilling Fluid: None **Drilling Method Used:** Direct Push

Drilling Contractor: Devonian **Driller:** Dewayne **Helper:** Brett

Prepared By: G. Cook **Hammer Weight:** NA **Hammer Drop (inches):** NA

Fill | Silty Clay | Silt | Sandy Silt | Silty Sand | Shelby Tube | Water First Encountered
Clay | Sandy Clay | Clayey Silt | Sand | Clayey Sand | Split Spoon | Water Level After 10 Minutes

SAMPLE DEPTH (ft)	SAMPLE TYPE	RECOVERY (ft)	SYMBOL	VISUAL DESCRIPTION	USCS (LL/PL/PI)	PP H	PP V	OVM (wo/F) (ppm)	REMARKS
26									
27				- Increasing clay (40,60), wet - trace of shell fragment					
28		4				2.5	/1.5		
29				SILTY CLAY: Gray, trace of shell fragment, damp, medium to slight					
30				- trace of very fine sand, dry, stiff					
31				SANDY CLAY: Gray, shell fragments, damp, stiff					
32									
33		4.5		CLAYEY SAND: Gray, ferrous staining, streaks of black natural organic stains, trace of shell fragments					
34									
35									
36				SAND: Medium loose, gray, saturated - shells increase					
37				- Marl					
38									
39									
40				- Total Depth 40 ft bls					
41									
42									
43									
44									
45									
46									
47									
48									
49									
50									

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Appendix B

Water Sampling Logs and Field Parameters Forms

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WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00013

Site Location: Vicksburg, Mississippi Date: 2/7/2007

Site/Well No.: MW-1A Replicate No.: MS/MSD Code No.: NA

Weather: Sunny, low 60's Sampling Time: Begin 1340 End 1610

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	111.39
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	32.83
Depth To Water (ft bmp)	2.64
Water Level Elevation (ft)	108.75
Water Column In Well (ft)	30.19
Casing Diameter/Type	4-inch PVC
Gallons In Well	19.6
Gallons Pumped/Bailed Prior To Sampling	Dry at 50 gallons
Sample Pump Intake Setting (ft bmp)	≈ 31.83
Purge Time	Begin: 1250 End 1330
Pumping Rate (gpm)	varied
Evacuation Method	Rediflo pump

Field Parameters

Color	clear
Odor	none
Appearance	clear
pH (s.u.)	6.79
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	6,000
Turbidity (NTU)	37.25
Temperature (°C/ °F)	66.5
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	P.E. Bailer

Remarks

Collected MS/MSD

Constituents Sampled	Container Description	Number	Preservative
VOCs (8260)	40 mL vial	3	HCL
SVOCs (8270)	1 liter amber glass	2	4°C
Organochlorine Pesticides (8081)	1 liter amber glass	2	4°C
Organochlorine Herbicides(8151)	1 liter amber glass	2	4°C
Total Metals (6010) (6020)	250 mL plastic	1	HNO3
Dissolved Metals (6010) (6020)	250 mL plastic	1	4°C

Sampling Personnel: K. Montgomery/G. Cook

Well Casing Volumes Gal./Ft.

1" = 0.04 | 1 - 1/2" = 0.09 | 2 - 1/2" = 0.26 | 3 - 1/2" = 0.50 | 6" = 1.47

1 - 1/4" = 0.06 | 2" = 0.16 | 3" = 0.37 | 4" = 0.65

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

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FIELD PARAMETERS

Well Identification Number: **MW-1A**

Job Name/Number: **Mississippi Bluffs/LA002656.0001.00013**

Date: 2/7/2007

Water Level (TOC): 2.64

Total Depth: 32.83

OVM Reading: NA

5 Well Volumes: 98

Start Time: 1250

Total Volumes Removed: Dry at 50 gallons

Time	Water Level (ft gmp)	Temp (°F)	Spc. Cond. (µmhos/cm)	Turbidity (NTU)	pH (s.u.)
1250	2.64	73.4	5,715	8.72	7.02
		70.0	6,734	42.12	6.81
		68.4	6,695	26.47	7.01
1330		68.6	6,564	54.22	6.76
Dry at 50 gallons					

Observations/Comments:

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WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00013

Site Location: Vicksburg, Mississippi Date: 2/7/2007

Site/Well No.: MW-1C Replicate No.: DUP-02 (020707) Code No.: NA

Weather: Sunny, low 60's Sampling Time: Begin 1500 End 1513

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	111.66
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	29.95
Depth To Water (ft bmp)	3.02
Water Level Elevation (ft)	108.64
Water Column In Well (ft)	26.93
Casing Diameter/Type	4-inch PVC
Gallons In Well	17.5
Gallons Pumped/Bailed Prior To Sampling	90
Sample Pump Intake Setting (ft bmp)	≈ 28.95
Purge Time	Begin: 1420 End 1500
Pumping Rate (gpm)	varied
Evacuation Method	Rediflo pump

Field Parameters

Color	brown
Odor	none
Appearance	turbid
pH (s.u.)	6.75
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	6,928
Turbidity (NTU)	>1,100
Temperature (°C/ °F)	67.6
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	P.E. Bailer

Remarks: Collected DUP-02 (020707)

Constituents Sampled	Container Description	Number	Preservative
VOCs (8260)	40 mL vial	3	HCL
SVOCs (8270)	1 liter amber glass	2	4°C
Organochlorine Pesticides (8081)	1 liter amber glass	2	4°C
Organochlorine Herbicides(8151)	1 liter amber glass	2	4°C
Total Metals (6010) (6020)	250 mL plastic	1	HNO3
Dissolved Metals (6010) (6020)	250 mL plastic	1	4°C

Sampling Personnel: K. Montgomery/G. Cook

Well Casing Volumes Gal./Ft.: 1" = 0.04; 1 - 1/4" = 0.06; 1 - 1/2" = 0.09; 2" = 0.16; 2 - 1/2" = 0.26; 3" = 0.37; 3 - 1/2" = 0.50; 4" = 0.65; 6" = 1.47

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

FIELD PARAMETERS

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Well Identification Number: **MW-1C**

Job Name/Number: **Mississippi Bluffs/LA002656.0001.00013**

Date: 2/7/2007

Water Level (TOC): 3.02

Total Depth: 29.98

OVM Reading: NA

5 Well Volumes: 87.5

Start Time: 1420

Total Volumes Removed: 90

Time	Water Level (ft gmp)	Temp (°F)	Spc. Cond. (µmhos/cm)	Turbidity (NTU)	pH (s.u.)
1420	3.02	65.6	7,370	14.13	6.86
		66.6	7,403	691	6.76
		66.5	7,085	501.8	6.62
		67.3	6,969	526.8	6.72
		67.5	6,917	>1,100	6.77
1500		67.6	6,928	>1,000	6.75

Observations/Comments:

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WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00013

Site Location: Vicksburg, Mississippi Date: 1/30/2007

Site/Well No.: MW-2 Replicate No.: NA Code No.: NA

Weather: Partly cloudy, low 40's Sampling Time: Begin 1535 End 1633

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	108.89
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	41.92
Depth To Water (ft bmp)	5.41
Water Level Elevation (ft)	103.48
Water Column In Well (ft)	36.51
Casing Diameter/Type	4-inch PVC
Gallons In Well	23.7
Gallons Pumped/Bailed Prior To Sampling	Dry at 24
Sample Pump Intake Setting (ft bmp)	≈ 40.92
Purge Time	Begin: 1445 End 1517
Pumping Rate (gpm)	varied
Evacuation Method	Rediflo pump

Field Parameters

Color	clear
Odor	none
Appearance	clear
pH (s.u.)	7.73
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	115.8
Turbidity (NTU)	49.81
Temperature (°C/(°F)	58.5
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	P.E. Bailer
Remarks	

Constituents Sampled	Container Description	Number	Preservative
VOCs (8260)	40 mL vial	3	HCL
SVOCs (8270)	1 liter amber glass	2	4°C
Organochlorine Pesticides (8081)	1 liter amber glass	2	4°C
Organochlorine Herbicides(8151)	1 liter amber glass	2	4°C
Total Metals (6010) (6020)	250 mL plastic	1	HNO3
Dissolved Metals (6010) (6020)	250 mL plastic	1	4°C

Sampling Personnel: J.Trahan/G. Cook/C. Fontenot

Well Casing Volumes Gal./Ft.: 1" = 0.04; 1 - 1/4" = 0.06; 1 - 1/2" = 0.09; 2" = 0.16; 2 - 1/2" = 0.26; 3" = 0.37; 3 - 1/2" = 0.50; 4" = 0.65; 6" = 1.47

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

ARCADIS

FIELD PARAMETERS

Well Identification Number: **MW-2**

Job Name/Number: **Mississippi Bluffs/LA002656.0001.00013** Date: 1/30/2007

Water Level (TOC): 5.41 Total Depth: 41.92

OVM Reading: NA 5 Well Volumes: 120 gallons

Start Time: 1445 Total Volumes Removed: 24 gallons

Time	Water Level (ft gmp)	Temp (°F)	Spc. Cond. (µmhos/cm)	Turbidity (NTU)	pH (s.u.)
1445	5.41	57.4	1,160	282	7.46
1517		57.2	1,147	121.4	7.89
Dry at 24 gallons					

Observations/Comments:

ARCADIS

WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00013

Site Location: Vicksburg, Mississippi Date: 2/1/2007

Site/Well No.: MW-4 Replicate No.: NA Code No.: NA

Weather: Overcast, 40's, windy Sampling Time: Begin 0848 End 0857

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	112.00
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	21.67
Depth To Water (ft bmp)	3.64
Water Level Elevation (ft)	108.36
Water Column In Well (ft)	18.03
Casing Diameter/Type	4-inch PVC
Gallons In Well	2.8
Gallons Pumped/Bailed Prior To Sampling	15
Sample Pump Intake Setting (ft bmp)	≈ 20.67
Purge Time	Begin: 0832 End 0845
Pumping Rate (gpm)	varied
Evacuation Method	Rediflo pump

Field Parameters

Color	light brown
Odor	none
Appearance	slightly cloudy
pH (s.u.)	7.05
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	827.7
Turbidity (NTU)	85.47
Temperature (°C/ °F)	62.2
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	P.E. Bailer
Remarks	

Constituents Sampled	Container Description	Number	Preservative
VOCs (8260)	40 mL vial	3	HCL
SVOCs (8270)	1 liter amber glass	2	4°C
Organochlorine Pesticides (8081)	1 liter amber glass	2	4°C
Organochlorine Herbicides(8151)	1 liter amber glass	2	4°C
Total Metals (6010) (6020)	250 mL plastic	1	HNO3
Dissolved Metals (6010) (6020)	250 mL plastic	1	4°C

Sampling Personnel: J.Trahan/G. Cook

Well Casing Volumes Gal./Ft.: 1" = 0.04; 1 - 1/4" = 0.06; 1 - 1/2" = 0.09; 2" = 0.16; 2 - 1/2" = 0.26; 3" = 0.37; 3 - 1/2" = 0.50; 4" = 0.65; 6" = 1.47

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

ARCADIS

FIELD PARAMETERS

Well Identification Number: **MW-4**

Job Name/Number:	**Mississippi Bluffs/LA002656.0001.00013**	Date:	2/1/2007
Water Level (TOC):	3.64	Total Depth:	21.67
OVM Reading:	NA	5 Well Volumes:	15
Start Time:		Total Volumes Removed:	15

Time	Water Level (ft gmp)	Temp (°F)	Spc. Cond. (µmhos/cm)	Turbidity (NTU)	pH (s.u.)
0832	3.64	62.3	864.5	26.39	6.61
		63.3	885.0	134.4	6.82
		63.3	823.8	77.22	6.92
		62.9	825.1	70.87	6.95
0842		62.9	823.9	87.12	6.99
0844		62.2	827.7	85.47	7.05

Observations/Comments:

ARCADIS

WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00013

Site Location: Vicksburg, Mississippi Date: 1/30/2007

Site/Well No.: MW-5 Replicate No.: NA Code No.: NA

Weather: Cloudy, low 40's Sampling Time: Begin 1205 End 1335

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	101.13
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	20.61
Depth To Water (ft bmp)	14.40
Water Level Elevation (ft)	86.73
Water Column In Well (ft)	6.21
Casing Diameter/Type	2-inch PVC
Gallons In Well	0.75
Gallons Pumped/Bailed Prior To Sampling	Dry at 1.75
Sample Pump Intake Setting (ft bmp)	NA
Purge Time	Begin: 1026 End 1037
Pumping Rate (gpm)	NA
Evacuation Method	P.E. Bailer

Field Parameters

Color	light tan
Odor	none
Appearance	slightly cloudy
pH (s.u.)	7.03
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	1,343
Turbidity (NTU)	342.0
Temperature (°C/ °F)	60.4
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	P.E. Bailer
Remarks	

Constituents Sampled	Container Description	Number	Preservative
VOCs (8260)	40 mL vial	3	HCL
SVOCs (8270)	1 liter amber glass	2	4°C
Organochlorine Pesticides (8081)	1 liter amber glass	2	4°C
Organochlorine Herbicides(8151)	1 liter amber glass	2	4°C
Total Metals (6010) (6020)	250 mL plastic	1	HNO3
Dissolved Metals (6010) (6020)	250 mL plastic	1	4°C

Sampling Personnel: J.Trahan/G. Cook/C. Fontenot

Well Casing Volumes Gal./Ft.: 1" = 0.04; 1 - 1/4" = 0.06; 1 - 1/2" = 0.09; 2" = 0.16; 2 - 1/2" = 0.26; 3" = 0.37; 3 - 1/2" = 0.50; 4" = 0.65; 6" = 1.47

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

ARCADIS

FIELD PARAMETERS

Well Identification Number: **MW-5**

Job Name/Number:	**Mississippi Bluffs/LA002656.0001.00013**	Date:	1/30/2007
Water Level (TOC):	14.40	Total Depth:	20.61
OVM Reading:	NA	5 Well Volumes:	3.8 gallons
Start Time:	1024	Total Volumes Removed:	1.75

Time	Water Level (ft gmp)	Temp (°F)	Spc. Cond. (µmhos/cm)	Turbidity (NTU)	pH (s.u.)
1024	14.40	61.9	1,187	593.6	7.00
		62.5	1,250	782.2	7.05
1035		62.7	1,085	867.4	7.19
Dry at 1.75 gallons					

Observations/Comments:

ARCADIS

WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00013

Site Location: Vicksburg, Mississippi Date: 1/30/2007

Site/Well No.: MW-6 Replicate No.: NA Code No.: NA

Weather: Cloudy, low 40's Sampling Time: Begin 1117 End 1157

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	100.70
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	26.17
Depth To Water (ft bmp)	11.18
Water Level Elevation (ft)	89.52
Water Column In Well (ft)	14.99
Casing Diameter/Type	2-inch PVC
Gallons In Well	2.4
Gallons Pumped/Bailed Prior To Sampling	2.5
Sample Pump Intake Setting (ft bmp)	≈ 25.17
Purge Time	Begin: 1000 End 1004
Pumping Rate (gpm)	varied
Evacuation Method	Rediflo pump

Field Parameters

Color	yellow
Odor	none
Appearance	cloudy
pH (s.u.)	6.62
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	2,681
Turbidity (NTU)	207
Temperature (°C/ °F)	61.0
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	P.E. Bailer
Remarks	

Constituents Sampled	Container Description	Number	Preservative
VOCs (8260)	40 mL vial	3	HCL
SVOCs (8270)	1 liter amber glass	2	4°C
Organochlorine Pesticides (8081)	1 liter amber glass	2	4°C
Organochlorine Herbicides(8151)	1 liter amber glass	2	4°C
Total Metals (6010) (6020)	250 mL plastic	1	HNO3
Dissolved Metals (6010) (6020)	250 mL plastic	1	4°C

Sampling Personnel: J.Trahan/G. Cook/C. Fontenot

Well Casing Volumes Gal./Ft.: 1" = 0.04; 1 - 1/4" = 0.06; 1 - 1/2" = 0.09; 2" = 0.16; 2 - 1/2" = 0.26; 3" = 0.37; 3 - 1/2" = 0.50; 4" = 0.65; 6" = 1.47

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

ARCADIS

FIELD PARAMETERS

Well Identification Number: **MW-6**

Job Name/Number: **Mississippi Bluffs/LA002656.0001.00013** Date: 1/30/2007

Water Level (TOC): 11.18 Total Depth: 26.17

OVM Reading: NA 5 Well Volumes: 12

Start Time: 1000 Total Volumes Removed: Dry at 2.55 gallons

Time	Water Level (ft gmp)	Temp (°F)	Spc. Cond. (µmhos/cm)	Turbidity (NTU)	pH (s.u.)
1000	11.18	58.3	1,836	2.37	7.13
1004		59.8	868	196	7.35
Dry at 2.55 gallons					

Observations/Comments:

ARCADIS

WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00013

Site Location: Vicksburg, Mississippi Date: 1/30/2007

Site/Well No.: MW-7 Replicate No.: NA Code No.: NA

Weather: Cloudy, low 40's Sampling Time: Begin 1050 End 1150

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	99.98
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	32.66
Depth To Water (ft bmp)	4.61
Water Level Elevation (ft)	95.37
Water Column In Well (ft)	28.05
Casing Diameter/Type	2-inch PVC
Gallons In Well	4.5
Gallons Pumped/Bailed Prior To Sampling	Dry at 7.5
Sample Pump Intake Setting (ft bmp)	≈ 31.66
Purge Time	Begin: 0930 End 0946
Pumping Rate (gpm)	varied
Evacuation Method	Rediflo pump

Field Parameters

Color	clear
Odor	none
Appearance	clear
pH (s.u.)	6.84
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	8,002
Turbidity (NTU)	66.35
Temperature (°C/ °F)	60.5
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	P.E. Bailer
Remarks	

Constituents Sampled	Container Description	Number	Preservative
VOCs (8260)	40 mL vial	3	HCL
SVOCs (8270)	1 liter amber glass	2	4°C
Organochlorine Pesticides (8081)	1 liter amber glass	2	4°C
Organochlorine Herbicides(8151)	1 liter amber glass	2	4°C
Total Metals (6010) (6020)	250 mL plastic	1	HNO3
Dissolved Metals (6010) (6020)	250 mL plastic	1	4°C

Sampling Personnel: K. Montgomery/G. Cook

Well Casing Volumes Gal./Ft.: 1" = 0.04; 1 - 1/4" = 0.06; 1 - 1/2" = 0.09; 2" = 0.16; 2 - 1/2" = 0.26; 3" = 0.37; 3 - 1/2" = 0.50; 4" = 0.65; 6" = 1.47

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

ARCADIS

FIELD PARAMETERS

Well Identification Number: **MW-7**

Job Name/Number: **Mississippi Bluffs/LA002656.0001.00013**

Date: 1/30/2007

Water Level (TOC): 4.61

Total Depth: 32.66

OVM Reading: NA

5 Well Volumes: ≈ 23

Start Time: 0930

Total Volumes Removed: Dry at 7.5 gallons

Time	Water Level (ft gmp)	Temp (°F)	Spc. Cond. (µmhos/cm)	Turbidity (NTU)	pH (s.u.)
0930	4.61	59.3	841.1	778.1	6.73
0940		58.3	811.2	662.1	7.31
Dry at 7.5 gallons					

Observations/Comments:

ARCADIS

WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00013

Site Location: Vicksburg, Mississippi Date: 2/6/2007

Site/Well No.: MW-8 Replicate No.: NA Code No.: NA

Weather: Cloudy, low 40's Sampling Time: Begin 1545 End 1622

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	109.48
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	26.95
Depth To Water (ft bmp)	4.78
Water Level Elevation (ft)	104.70
Water Column In Well (ft)	22.17
Casing Diameter/Type	4-inch PVC
Gallons In Well	3.5
Gallons Pumped/Bailed Prior To Sampling	Dry at 4 gallons
Sample Pump Intake Setting (ft bmp)	≈ 25.95
Purge Time	Begin: 1500 End 1506
Pumping Rate (gpm)	varied
Evacuation Method	Rediflo pump

Field Parameters

Color	gray
Odor	none
Appearance	turbid
pH (s.u.)	6.56
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	481.4
Turbidity (NTU)	>1,100
Temperature (°C/(°F)	67.7
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	P.E. Bailer

Remarks: Well casing bent just below surface.

Constituents Sampled	Container Description	Number	Preservative
VOCs (8260)	40 mL vial	3	HCL
SVOCs (8270)	1 liter amber glass	2	4°C
Organochlorine Pesticides (8081)	1 liter amber glass	2	4°C
Organochlorine Herbicides(8151)	1 liter amber glass	2	4°C
Total Metals (6010) (6020)	250 mL plastic	1	HNO3
Dissolved Metals (6010) (6020)	250 mL plastic	1	4°C

Sampling Personnel: G. Cook

Well Casing Volumes Gal./Ft.: 1" = 0.04; 1 - 1/4" = 0.06; 1 - 1/2" = 0.09; 2" = 0.16; 2 - 1/2" = 0.26; 3" = 0.37; 3 - 1/2" = 0.50; 4" = 0.65; 6" = 1.47

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

ARCADIS

FIELD PARAMETERS

Well Identification Number: **MW-8**

Job Name/Number:	**Mississippi Bluffs/LA002656.0001.00013**	Date:	2/6/2007
Water Level (TOC):	4.78	Total Depth:	26.55
OVM Reading:	NA	5 Well Volumes:	18
Start Time:	1500	Total Volumes Removed:	4

Time	Water Level (ft gmp)	Temp (°F)	Spc. Cond. (µmhos/cm)	Turbidity (NTU)	pH (s.u.)
1500		65.6	520.8	42.91	7.02
1505		64.9	467.7	106.9	7.17

Observations/Comments:

ARCADIS

WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00013

Site Location: Vicksburg, Mississippi Date: 2/6/2007

Site/Well No.: MW-9 Replicate No.: NA Code No.: NA

Weather: Sunny, calm, low 50's Sampling Time: Begin 1422 End 1433

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	116.04
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	60.43
Depth To Water (ft bmp)	3.62
Water Level Elevation (ft)	112.42
Water Column In Well (ft)	56.81
Casing Diameter/Type	4-inch PVC
Gallons In Well	37
Gallons Pumped/Bailed Prior To Sampling	Dry at 90 gallons
Sample Pump Intake Setting (ft bmp)	≈ 59.43
Purge Time	Begin: 1330 End 1415
Pumping Rate (gpm)	varied
Evacuation Method	Rediflo pump

Field Parameters

Color	clear
Odor	none
Appearance	clear
pH (s.u.)	6.25
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	5,507
Turbidity (NTU)	28.80
Temperature (°C/ °F)	69.4
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	P.E. Bailer
Remarks	

Constituents Sampled	Container Description	Number	Preservative
VOCs (8260)	40 mL vial	3	HCL
SVOCs (8270)	1 liter amber glass	2	4°C
Organochlorine Pesticides (8081)	1 liter amber glass	2	4°C
Organochlorine Herbicides(8151)	1 liter amber glass	2	4°C
Total Metals (6010) (6020)	250 mL plastic	1	HNO3
Dissolved Metals (6010) (6020)	250 mL plastic	1	4°C

Sampling Personnel: G. Cook

Well Casing Volumes Gal./Ft.: 1" = 0.04; 1 - 1/4" = 0.06; 1 - 1/2" = 0.09; 2" = 0.16; 2 - 1/2" = 0.26; 3" = 0.37; 3 - 1/2" = 0.50; 4" = 0.65; 6" = 1.47

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

ARCADIS

FIELD PARAMETERS

Well Identification Number: **MW-9**

Job Name/Number: **Mississippi Bluffs/LA002656.0001.00013** Date: 2/6/2007

Water Level (TOC): 3.62 Total Depth: 60.43

OVM Reading: NA 5 Well Volumes: 185

Start Time: 1330 Total Volumes Removed: Dry at 90 gallons

Time	Water Level (ft gmp)	Temp (°F)	Spc. Cond. (µmhos/cm)	Turbidity (NTU)	pH (s.u.)
1330	3.62	69.3	5,728	10.16	6.64
		68.0	4,527	8.14	6.81
		68.1	5,500	11.20	6.75
		69.4	5,507	28.83	6.75

Observations/Comments:

ARCADIS

WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00013

Site Location: Vicksburg, Mississippi Date: 2/8/2007

Site/Well No.: MW-10 Replicate No.: NA Code No.: NA

Weather: Cloudy, cold (48°F), light breeze Sampling Time: Begin 1515 End 1525

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	114.40
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	54.74
Depth To Water (ft bmp)	4.53
Water Level Elevation (ft)	109.87
Water Column In Well (ft)	50.21
Casing Diameter/Type	4-inch PVC
Gallons In Well	32.64
Gallons Pumped/Bailed Prior To Sampling	Dry at 64 gallons
Sample Pump Intake Setting (ft bmp)	≈ 54
Purge Time	Begin: 1430 End 1453
Pumping Rate (gpm)	varied
Evacuation Method	Rediflo pump

Field Parameters

Color	light tan
Odor	none
Appearance	slightly cloudy
pH (s.u.)	6.79
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	2,390
Turbidity (NTU)	37.11
Temperature (°C/°F)	64.1
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	P.E. Bailer
Remarks	

Constituents Sampled	Container Description	Number	Preservative
VOCs (8260)	40 mL vial	3	HCL
SVOCs (8270)	1 liter amber glass	2	4°C
Organochlorine Pesticides (8081)	1 liter amber glass	2	4°C
Organochlorine Herbicides(8151)	1 liter amber glass	2	4°C
Total Metals (6010) (6020)	250 mL plastic	1	HNO3
Dissolved Metals (6010) (6020)	250 mL plastic	1	4°C

Sampling Personnel: K. Montgomery/G. Cook

Well Casing Volumes Gal./Ft.: 1" = 0.04; 1 - 1/4" = 0.06; 1 - 1/2" = 0.09; 2" = 0.16; 2 - 1/2" = 0.26; 3" = 0.37; 3 - 1/2" = 0.50; 4" = 0.65; 6" = 1.47

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

ARCADIS

FIELD PARAMETERS

Well Identification Number: **MW-10**

Job Name/Number: **Mississippi Bluffs/LA002656.0001.00013** Date: 2/8/2007

Water Level (TOC): 4.53 Total Depth: 54.74

OVM Reading: NA 5 Well Volumes: 97.91

Start Time: 1430 Total Volumes Removed: Dry at 64 gallons

Time	Water Level (ft gmp)	Temp (°F)	Spc. Cond. (µmhos/cm)	Turbidity (NTU)	pH (s.u.)
1430	4.53	88.5	1,978	10.66	7.41
		63.7	2,079	39.44	6.94
		62.7	2,338	55.81	6.83
Dry at 64 gallons					

Observations/Comments:

ARCADIS

WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00013

Site Location: Vicksburg, Mississippi Date: 2/8/2007

Site/Well No.: MW-10C Replicate No.: NA Code No.: NA

Weather: Cloudy, cold (40°), light breeze Sampling Time: Begin 1625 End 1640

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	113.28
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	18.19
Depth To Water (ft bmp)	4.95
Water Level Elevation (ft)	108.33
Water Column In Well (ft)	13.24
Casing Diameter/Type	4-inch PVC
Gallons In Well	8.61
Gallons Pumped/Bailed Prior To Sampling	Dry at 33 gallons
Sample Pump Intake Setting (ft bmp)	≈ 17.0
Purge Time	Begin: 1540 End 1605
Pumping Rate (gpm)	varied
Evacuation Method	Rediflo pump

Field Parameters

Color	yellow
Odor	none
Appearance	clear
pH (s.u.)	7.23
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	1,803
Turbidity (NTU)	248.8
Temperature (°C/ °F)	61.5
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	P.E. Bailer
Remarks	

Constituents Sampled	Container Description	Number	Preservative
VOCs (8260)	40 mL vial	3	HCL
SVOCs (8270)	1 liter amber glass	2	4°C
Organochlorine Pesticides (8081)	1 liter amber glass	2	4°C
Organochlorine Herbicides(8151)	1 liter amber glass	2	4°C
Total Metals (6010) (6020)	250 mL plastic	1	HNO3
Dissolved Metals (6010) (6020)	250 mL plastic	1	4°C

Sampling Personnel: J.Trahan/G. Cook

Well Casing Volumes Gal./Ft.: 1" = 0.04; 1 - 1/4" = 0.06; 1 - 1/2" = 0.09; 2" = 0.16; 2 - 1/2" = 0.26; 3" = 0.37; 3 - 1/2" = 0.50; 4" = 0.65; 6" = 1.47

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

ARCADIS

FIELD PARAMETERS

Well Identification Number: **MW-10C**

Job Name/Number: **Mississippi Bluffs/LA002656.0001.00013** Date: 2/8/2007

Water Level (TOC): 4.95 Total Depth: 18.19

OVM Reading: NA 5 Well Volumes: 25.82

Start Time: 1540 Total Volumes Removed: Dry at 33 gallons

Time	Water Level (ft gmp)	Temp (°F)	Spc. Cond. (umhos/cm)	Turbidity (NTU)	pH (s.u.)
1540	4.95	60.9	1,835	35.13	7.06
		61.3	1,812	10.05	7.00
		61.4	1,809	14.44	6.96
		61.0	1,861	44.02	6.96
1605		64.8	1,841	20.66	7.01

Observations/Comments:

ARCADIS

WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00013

Site Location: Vicksburg, Mississippi Date: 2/8/2007

Site/Well No.: MW-11 Replicate No.: NA Code No.: NA

Weather: Cloudy, cold (40°F), light breeze Sampling Time: Begin 1400 End 1415

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	104.89
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	51.49
Depth To Water (ft bmp)	7.92
Water Level Elevation (ft)	96.97
Water Column In Well (ft)	43.57
Casing Diameter/Type	4-inch PVC
Gallons In Well	28.3 gallons
Gallons Pumped/Bailed Prior To Sampling	Dry at 43 gallons
Sample Pump Intake Setting (ft bmp)	≈ 50
Purge Time	Begin: 1325 End 1343
Pumping Rate (gpm)	varied
Evacuation Method	Rediflo pump

Field Parameters

Color	tan
Odor	none
Appearance	cloudy
pH (s.u.)	7.27
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	3,163
Turbidity (NTU)	362.4
Temperature (°C/ °F)	58.2
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	P.E. Bailer
Remarks	

Constituents Sampled	Container Description	Number	Preservative
VOCs (8260)	40 mL vial	3	HCL
SVOCs (8270)	1 liter amber glass	2	4°C
Organochlorine Pesticides (8081)	1 liter amber glass	2	4°C
Organochlorine Herbicides(8151)	1 liter amber glass	2	4°C
Total Metals (6010) (6020)	250 mL plastic	1	HNO3
Dissolved Metals (6010) (6020)	250 mL plastic	1	4°C

Sampling Personnel: K. Montgomery/G. Cook

Well Casing Volumes Gal./Ft.: 1" = 0.04; 1 - 1/2" = 0.09; 2 - 1/2" = 0.26; 3 - 1/2" = 0.50; 6" = 1.47; 1 - 1/4" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

ARCADIS

FIELD PARAMETERS

Well Identification Number: **MW-11**

Job Name/Number: **Mississippi Bluffs/LA002656.0001.00013** Date: 2/8/2007

Water Level (TOC): 7.92 Total Depth: 51.49

OVM Reading: NA 5 Well Volumes: 84.96 gallons

Start Time: 1325 Total Volumes Removed: Dry at 43 gallons

Time	Water Level (ft gmp)	Temp (°F)	Spc. Cond. (µmhos/cm)	Turbidity (NTU)	pH (s.u.)
1325	7.92	60.2	3,187	24.51	6.93
		63.0	3,154	48.19	7.09
		62.1	3,152	4.43	7.18

Observations/Comments:

ARCADIS

WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00013

Site Location: Vicksburg, Mississippi Date: 2/12/2007

Site/Well No.: MW-12 Replicate No.: NA Code No.: NA

Weather: Cloudy, mild (50°F), calm Sampling Time: Begin 1155 End 1205

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	111.68
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	50.40
Depth To Water (ft bmp)	1.53
Water Level Elevation (ft)	110.15
Water Column In Well (ft)	48.87
Casing Diameter/Type	4-inch PVC
Gallons In Well	31.77
Gallons Pumped/Bailed Prior To Sampling	Dry at 40 gallons
Sample Pump Intake Setting (ft bmp)	≈ 50
Purge Time	Begin: 1116 End 1139
Pumping Rate (gpm)	varied
Evacuation Method	Rediflo pump

Field Parameters

Color	clear
Odor	none
Appearance	clear
pH (s.u.)	7.04
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	799.5
Turbidity (NTU)	14.61
Temperature (°C/ °F)	68.6
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	P.E. Bailer

Remarks

Constituents Sampled	Container Description	Number	Preservative
VOCs (8260)	40 mL vial	3	HCL
SVOCs (8270)	1 liter amber glass	2	4°C
Organochlorine Pesticides (8081)	1 liter amber glass	2	4°C
Organochlorine Herbicides(8151)	1 liter amber glass	2	4°C
Total Metals (6010) (6020)	250 mL plastic	1	HNO3
Dissolved Metals (6010) (6020)	250 mL plastic	1	4°C

Sampling Personnel: K. Montgomery/G. Cook

Well Casing Volumes Gal./Ft.: 1" = 0.04; 1 - 1/4" = 0.06; 1 - 1/2" = 0.09; 2" = 0.16; 2 - 1/2" = 0.26; 3" = 0.37; 3 - 1/2" = 0.50; 4" = 0.65; 6" = 1.47

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

ARCADIS

FIELD PARAMETERS

Well Identification Number: **MW-12**

Job Name/Number: **Mississippi Bluffs/LA002656.0001.00013** Date: 2/12/2007

Water Level (TOC): 1.53 Total Depth: 50.40

OVM Reading: NA 5 Well Volumes: 95.30 gallons

Start Time: 1116 Total Volumes Removed: Dry at 40 gallons

Time	Water Level (ft gmp)	Temp (°F)	Spc. Cond. (µmhos/cm)	Turbidity (NTU)	pH (s.u.)
1116	1.53	65.9	788.7	79.16	7.32
		65.0	788.1	25.50	7.21
Dry at 40 gallons					

Observations/Comments:

ARCADIS

WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00013

Site Location: Vicksburg, Mississippi Date: 2/12/2007

Site/Well No.: MW-12C Replicate No.: NA Code No.: NA

Weather: Cloudy, mild (55°F) Sampling Time: Begin 1055 End 1105

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	113.76
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	19.48
Depth To Water (ft bmp)	4.77
Water Level Elevation (ft)	108.99
Water Column In Well (ft)	14.71
Casing Diameter/Type	4-inch PVC
Gallons In Well	9.6
Gallons Pumped/Bailed Prior To Sampling	Dry at 30 gallons
Sample Pump Intake Setting (ft bmp)	≈ 18
Purge Time	Begin: 1024 End 1040
Pumping Rate (gpm)	varied
Evacuation Method	Rediflo pump

Field Parameters

Color	olive
Odor	very slight
Appearance	cloudy
pH (s.u.)	6.95
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	2,114
Turbidity (NTU)	789.0
Temperature (°C/ °F)	63.9
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	P.E. Bailer
Remarks	

Constituents Sampled	Container Description	Number	Preservative
VOCs (8260)	40 mL vial	3	HCL
SVOCs (8270)	1 liter amber glass	2	4°C
Organochlorine Pesticides (8081)	1 liter amber glass	2	4°C
Organochlorine Herbicides(8151)	1 liter amber glass	2	4°C
Total Metals (6010) (6020)	250 mL plastic	1	HNO3
Dissolved Metals (6010) (6020)	250 mL plastic	1	4°C

Sampling Personnel: K. Montgomery/G. Cook

Well Casing Volumes Gal./Ft.: 1" = 0.04; 1 - 1/4" = 0.06; 1 - 1/2" = 0.09; 2" = 0.16; 2 - 1/2" = 0.26; 3" = 0.37; 3 - 1/2" = 0.50; 4" = 0.65; 6" = 1.47

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

ARCADIS

FIELD PARAMETERS

Well Identification Number: **MW-12C**

Job Name/Number: **Mississippi Bluffs/LA002656.0001.00013**

Date: 2/12/2007

Water Level (TOC): 4.77

Total Depth: 19.48

OVM Reading: NA

5 Well Volumes: 48 gallons

Start Time: 1024

Total Volumes Removed: Dry at 30 gallons

Time	Water Level (ft gmp)	Temp (°F)	Spc. Cond. (µmhos/cm)	Turbidity (NTU)	pH (s.u.)
1024	4.77	61.6	3,321	600.2	7.30
		61.1	1,462	540.0	7.25
		62.2	2,075	498.5	7.05
		62.6	2,089	447.0	7.01
Dry at 30 gallons					

Observations/Comments:

ARCADIS

WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00013

Site Location: Vicksburg, Mississippi Date: 2/12/2007

Site/Well No.: MW-13 Replicate No.: NA Code No.: NA

Weather: Mostly cloudy, cold (45°F) Sampling Time: Begin 0945 End 0955

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	113.45
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	52.65
Depth To Water (ft bmp)	1.75
Water Level Elevation (ft)	111.70
Water Column In Well (ft)	50.90
Casing Diameter/Type	4-inch PVC
Gallons In Well	33.09
Gallons Pumped/Bailed Prior To Sampling	Dry at 35 gallons
Sample Pump Intake Setting (ft bmp)	≈ 51
Purge Time	Begin: 0910 End 0935
Pumping Rate (gpm)	varied
Evacuation Method	Rediflo pump

Field Parameters

Color	clear
Odor	none
Appearance	clear
pH (s.u.)	6.90
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	34,170
Turbidity (NTU)	7.87
Temperature (°C/(°F)	66.6
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	P.E. Bailer

Remarks: *Did not take dissolved metals (turbitity below 10 NTU)

Constituents Sampled	Container Description	Number	Preservative
VOCs (8260)	40 mL vial	3	HCL
SVOCs (8270)	1 liter amber glass	2	4°C
Organochlorine Pesticides (8081)	1 liter amber glass	2	4°C
Organochlorine Herbicides(8151)	1 liter amber glass	2	4°C
Total Metals (6010) (6020)	250 mL plastic	1	HNO3

Sampling Personnel: K. Montgomery/G. Cook

Well Casing Volumes

Gal./Ft.				
1" = 0.04	1 - 1/2" = 0.09	2 - 1/2" = 0.26	3 - 1/2" = 0.50	6" = 1.47
1 - 1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

ARCADIS

FIELD PARAMETERS

Well Identification Number: **MW-13**

Job Name/Number:	**Mississippi Bluffs/LA002656.0001.00013**	Date:	2/12/2007
Water Level (TOC):	1.75	Total Depth:	52.65
OVM Reading:	NA	5 Well Volumes:	99.26 gallons
Start Time:	0910	Total Volumes Removed:	Dry at 35 gallons

Time	Water Level (ft gmp)	Temp (°F)	Spc. Cond. (µmhos/cm)	Turbidity (NTU)	pH (s.u.)
0910	1.75	61.6	33,290	15.21	6.72
		63.3	34,080	9.87	6.79
Dry at 35 gallons					

Observations/Comments:

ARCADIS

WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00013

Site Location: Vicksburg, Mississippi Date: 2/6/2007

Site/Well No.: MW-14 Replicate No.: NA Code No.: NA

Weather: Sunny, cold, upper 30's Sampling Time: Begin 1015 End 1046

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	113.80
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	59.87
Depth To Water (ft bmp)	5.55
Water Level Elevation (ft)	108.25
Water Column In Well (ft)	54.32
Casing Diameter/Type	4-inch PVC
Gallons In Well	38.3
Gallons Pumped/Bailed Prior To Sampling	Dry at 35 gallons
Sample Pump Intake Setting (ft bmp)	≈ 58.87
Purge Time	Begin: 0937 End 1004
Pumping Rate (gpm)	varied
Evacuation Method	Rediflo pump

Field Parameters

Color	clear
Odor	none
Appearance	clear
pH (s.u.)	7.47
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	4,221
Turbidity (NTU)	65.69
Temperature (°C/ °F)	67.1
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	P.E. Bailer
Remarks	

Constituents Sampled	Container Description	Number	Preservative
VOCs (8260)	40 mL vial	3	HCL
SVOCs (8270)	1 liter amber glass	2	4°C
Organochlorine Pesticides (8081)	1 liter amber glass	2	4°C
Organochlorine Herbicides(8151)	1 liter amber glass	2	4°C
Total Metals (6010) (6020)	250 mL plastic	1	HNO3
Dissolved Metals (6010) (6020)	250 mL plastic	1	4°C

Sampling Personnel: G. Cook

Well Casing Volumes Gal./Ft.: 1" = 0.04; 1 - 1/4" = 0.06; 1 - 1/2" = 0.09; 2" = 0.16; 2 - 1/2" = 0.26; 3" = 0.37; 3 - 1/2" = 0.50; 4" = 0.65; 6" = 1.47

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

ARCADIS

FIELD PARAMETERS

Well Identification Number: **MW-14**

Job Name/Number: **Mississippi Bluffs/LA002656.0001.00013** Date: 2/6/2007

Water Level (TOC): 5.55 Total Depth: 59.87

OVM Reading: NA 5 Well Volumes: 177

Start Time: 0937 Total Volumes Removed: 35

Time	Water Level (ft gmp)	Temp (°F)	Spc. Cond. (µmhos/cm)	Turbidity (NTU)	pH (s.u.)
0937	5.58	65.7	6,347	101.7	2.47
1004		65.6	6	20.86	2.42
Dry at 35 gallons					

Observations/Comments:

ARCADIS

WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00013

Site Location: Vicksburg, Mississippi Date: 2/6/2007

Site/Well No.: MW-16 Replicate No.: NA Code No.: NA

Weather: Sunny, windy, mid 70's Sampling Time: Begin 1242 End 1252

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	111.77
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	55.50
Depth To Water (ft bmp)	0.81
Water Level Elevation (ft)	110.96
Water Column In Well (ft)	54.69
Casing Diameter/Type	4-inch PVC
Gallons In Well	35.5
Gallons Pumped/Bailed Prior To Sampling	Dry at 60 gallons
Sample Pump Intake Setting (ft bmp)	≈ 54.50
Purge Time	Begin: 1130 End 1242
Pumping Rate (gpm)	varied
Evacuation Method	Rediflo pump

Field Parameters

Color	clear
Odor	none
Appearance	clear
pH (s.u.)	7.11
Conductivity (ms/cm)	809.9
Conductivity (µmhos/cm)	NA
Turbidity (NTU)	3.67
Temperature (°C/ °F)	69.1
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	P.E. Bailer
Remarks	

Constituents Sampled	Container Description	Number	Preservative
VOCs (8260)	40 mL vial	3	HCL
SVOCs (8270)	1 liter amber glass	2	4°C
Organochlorine Pesticides (8081)	1 liter amber glass	2	4°C
Organochlorine Herbicides(8151)	1 liter amber glass	2	4°C
Total Metals (6010) (6020)	250 mL plastic	1	HNO3
Dissolved Metals (6010) (6020)	250 mL plastic	1	4°C

Sampling Personnel: G. Cook

Well Casing Volumes Gal./Ft.: 1" = 0.04; 1 - 1/4" = 0.06; 1 - 1/2" = 0.09; 2" = 0.16; 2 - 1/2" = 0.26; 3" = 0.37; 3 - 1/2" = 0.50; 4" = 0.65; 6" = 1.47

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

ARCADIS

FIELD PARAMETERS

Well Identification Number: **MW-16**

Job Name/Number:	**Mississippi Bluffs/LA002656.0001.00013**	Date:	2/6/2007
Water Level (TOC):	0.81	Total Depth:	55.50
OVM Reading:	NA	5 Well Volumes:	178
Start Time:	1130	Total Volumes Removed:	Dry at 60 gallons

Time	Water Level (ft gmp)	Temp (°F)	Spc. Cond. (µmhos/cm)	Turbidity (NTU)	pH (s.u.)
1130	0.81	67.0	1,057	178.3	7.34
		68.4	787.2	40.28	7.26
		67.5	778.9	23.01	7.14
		69.0	792.8	64.23	7.08
		68.7	796.6	64.55	7.03

Observations/Comments:

ARCADIS

WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00013

Site Location: Vicksburg, Mississippi Date: 2/7/2007

Site/Well No.: MW-17A Replicate No.: NA Code No.: NA

Weather: Sunny, 41°F Sampling Time: Begin 0830 End 0940

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	123.08
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	32.39
Depth To Water (ft bmp)	3.95
Water Level Elevation (ft)	119.13
Water Column In Well (ft)	28.44
Casing Diameter/Type	4-inch PVC
Gallons In Well	18.5
Gallons Pumped/Bailed Prior To Sampling	Dry at 19 gallons
Sample Pump Intake Setting (ft bmp)	≈ 31.39
Purge Time	Begin: 0756 End 0820
Pumping Rate (gpm)	varied
Evacuation Method	Rediflo pump

Field Parameters

Color	light brown
Odor	none
Appearance	cloudy
pH (s.u.)	6.99
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	1,121
Turbidity (NTU)	931.7
Temperature (°C/ °F)	65.8
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	P.E. Bailer
Remarks	

Constituents Sampled	Container Description	Number	Preservative
VOCs (8260)	40 mL vial	3	HCL
SVOCs (8270)	1 liter amber glass	2	4°C
Organochlorine Pesticides (8081)	1 liter amber glass	2	4°C
Organochlorine Herbicides(8151)	1 liter amber glass	2	4°C
Total Metals (6010) (6020)	250 mL plastic	1	HNO3
Dissolved Metals (6010) (6020)	250 mL plastic	1	4°C

Sampling Personnel: K. Montgomery/G. Cook

Well Casing Volumes Gal./Ft.: 1" = 0.04; 1 - 1/4" = 0.06; 1 - 1/2" = 0.09; 2" = 0.16; 2 - 1/2" = 0.26; 3" = 0.37; 3 - 1/2" = 0.50; 4" = 0.65; 6" = 1.47

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

ARCADIS

FIELD PARAMETERS

Well Identification Number: **MW-17A**

Job Name/Number: **Mississippi Bluffs/LA002656.0001.00013** Date: 2/7/2007

Water Level (TOC): 3.95 Total Depth: 32.39

OVM Reading: NA 5 Well Volumes: 93

Start Time: 0756 Total Volumes Removed: 19

Time	Water Level (ft gmp)	Temp (°F)	Spc. Cond. (µmhos/cm)	Turbidity (NTU)	pH (s.u.)
0756	3.95	61.5	1,151	18.87	7.01
0820		62.1	1,114	163.6	7.39
Dry at 19 gallons					

Observations/Comments:

ARCADIS

WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00013

Site Location: Vicksburg, Mississippi Date: 2/7/2007

Site/Well No.: MW-17B Replicate No.: NA Code No.: NA

Weather: Sunny, upper 40's Sampling Time: Begin 0918 End 0930

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	123.21
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	22.77
Depth To Water (ft bmp)	4.96
Water Level Elevation (ft)	118.25
Water Column In Well (ft)	17.81
Casing Diameter/Type	4-inch PVC
Gallons In Well	11.6
Gallons Pumped/Bailed Prior To Sampling	Dry at 28 gallons
Sample Pump Intake Setting (ft bmp)	≈ 21.77
Purge Time	Begin: 0849 End 0905
Pumping Rate (gpm)	varied
Evacuation Method	Rediflo pump

Field Parameters

Color	tan
Odor	none
Appearance	slightly cloudy
pH (s.u.)	8.01
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	646.4
Turbidity (NTU)	119.2
Temperature (°C/ °F)	68.6
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	P.E. Bailer
Remarks	

Constituents Sampled	Container Description	Number	Preservative
VOCs (8260)	40 mL vial	3	HCL
SVOCs (8270)	1 liter amber glass	2	4°C
Organochlorine Pesticides (8081)	1 liter amber glass	2	4°C
Organochlorine Herbicides(8151)	1 liter amber glass	2	4°C
Total Metals (6010) (6020)	250 mL plastic	1	HNO3
Dissolved Metals (6010) (6020)	250 mL plastic	1	4°C

Sampling Personnel: K. Montgomery/G. Cook

Well Casing Volumes Gal./Ft.: 1" = 0.04; 1 - 1/4" = 0.06; 1 - 1/2" = 0.09; 2" = 0.16; 2 - 1/2" = 0.26; 3" = 0.37; 3 - 1/2" = 0.50; 4" = 0.65; 6" = 1.47

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

ARCADIS

FIELD PARAMETERS

Well Identification Number: **MW-17B**

Job Name/Number:	**Mississippi Bluffs/LA002656.0001.00013**	Date:	2/7/2007
Water Level (TOC):	4.96	Total Depth:	22.77
OVM Reading:	NA	5 Well Volumes:	58
Start Time:	0849	Total Volumes Removed:	Dry at 28 gallons

Time	Water Level (ft gmp)	Temp (°F)	Spc. Cond. (µmhos/cm)	Turbidity (NTU)	pH (s.u.)
0849		64.2	647.7	124.6	7.83
		63.1	629.9	26.9	8.01
0905		65.8	638.8	123.7	7.96
Dry at 28 gallons					

Observations/Comments:

ARCADIS

WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00013

Site Location: Vicksburg, Mississippi Date: 2/7/2007

Site/Well No.: MW-18A Replicate No.: NA Code No.: NA

Weather: Sunny, cool, upper 50's Sampling Time: Begin 1055 End 1230

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	122.84
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	34.62
Depth To Water (ft bmp)	9.11
Water Level Elevation (ft)	113.73
Water Column In Well (ft)	25.51
Casing Diameter/Type	4-inch PVC
Gallons In Well	16.6
Gallons Pumped/Bailed Prior To Sampling	Dry at 17 gallons
Sample Pump Intake Setting (ft bmp)	≈ 33.62
Purge Time	Begin: 1003 End 1025
Pumping Rate (gpm)	varied
Evacuation Method	Rediflo pump

Field Parameters

Color	tannish brown
Odor	none
Appearance	cloudy
pH (s.u.)	7.58
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	3,245
Turbidity (NTU)	577.3
Temperature (°C (°F))	76.5
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	P.E. Bailer
Remarks	

Constituents Sampled	Container Description	Number	Preservative
VOCs (8260)	40 mL vial	3	HCL
SVOCs (8270)	1 liter amber glass	2	4°C
Organochlorine Pesticides (8081)	1 liter amber glass	2	4°C
Organochlorine Herbicides(8151)	1 liter amber glass	2	4°C
Total Metals (6010) (6020)	250 mL plastic	1	HNO3
Dissolved Metals (6010) (6020)	250 mL plastic	1	4°C

Sampling Personnel: K. Montgomery/G. Cook

Well Casing Volumes

Gal./Ft. 1" = 0.04; 1 - 1/4" = 0.06; 1 - 1/2" = 0.09; 2" = 0.16; 2 - 1/2" = 0.26; 3" = 0.37; 3 - 1/2" = 0.50; 4" = 0.65; 6" = 1.47

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

ARCADIS

FIELD PARAMETERS

Well Identification Number: **MW-18A**

Job Name/Number: **Mississippi Bluffs/LA002656.0001.00013** Date: 2/7/2007

Water Level (TOC): 9.11 Total Depth: 34.62

OVM Reading: NA 5 Well Volumes: 83

Start Time: 1003 Total Volumes Removed: Dry at 17 gallons

Time	Water Level (ft gmp)	Temp (°F)	Spc. Cond. (µmhos/cm)	Turbidity (NTU)	pH (s.u.)
1003	9.11	70.7	3,335	>1,106	7.05
1025		69.2	3,370	122.6	7.40
Dry at 17 gallons					

Observations/Comments:

ARCADIS

WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00013

Site Location: Vicksburg, Mississippi Date: 2/7/2007

Site/Well No.: MW-18B Replicate No.: NA Code No.: NA

Weather: Sunny, upper 50's Sampling Time: Begin 1120 End 1135

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	122.96
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	27.63
Depth To Water (ft bmp)	9.05
Water Level Elevation (ft)	113.91
Water Column In Well (ft)	18.58
Casing Diameter/Type	4-inch PVC
Gallons In Well	12
Gallons Pumped/Bailed Prior To Sampling	Dry at 21 gallons
Sample Pump Intake Setting (ft bmp)	≈ 26.63
Purge Time	Begin: 1035 End 1050
Pumping Rate (gpm)	varied
Evacuation Method	Rediflo pump

Field Parameters

Color	light yellowish brown
Odor	slight
Appearance	cloudy to slightly cloudy
pH (s.u.)	11.15
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	4,984
Turbidity (NTU)	566.4
Temperature (°C/ °F)	74.6
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	P.E. Bailer
Remarks	

Constituents Sampled	Container Description	Number	Preservative
VOCs (8260)	40 mL vial	3	HCL
SVOCs (8270)	1 liter amber glass	2	4°C
Organochlorine Pesticides (8081)	1 liter amber glass	2	4°C
Organochlorine Herbicides(8151)	1 liter amber glass	2	4°C
Total Metals (6010) (6020)	250 mL plastic	1	HNO3
Dissolved Metals (6010) (6020)	250 mL plastic	1	4°C

Sampling Personnel: K. Montgomery/G. Cook

Well Casing Volumes Gal./Ft.: 1" = 0.04; 1 - 1/4" = 0.06; 1 - 1/2" = 0.09; 2" = 0.16; 2 - 1/2" = 0.26; 3" = 0.37; 3 - 1/2" = 0.50; 4" = 0.65; 6" = 1.47

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

ARCADIS

FIELD PARAMETERS

Well Identification Number: **MW-18B**

Job Name/Number: **Mississippi Bluffs/LA002656.0001.00013** Date: 2/7/2007

Water Level (TOC): 9.05 Total Depth: 27.63

OVM Reading: NA 5 Well Volumes: 60

Start Time: 1035 Total Volumes Removed: Dry at 21 gallons

Time	Water Level (ft gmp)	Temp (°F)	Spc. Cond. (umhos/cm)	Turbidity (NTU)	pH (s.u.)
1035	9.05	71.6	7,501	22.67	11.20
1050		69.6	1,980	90.73	10.45
Dry at 21 gallons					

Observations/Comments:

ARCADIS

WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00013

Site Location: Vicksburg, Mississippi Date: 1/31/2007

Site/Well No.: PZ-12A Replicate No.: MS/MSD Code No.: NA

Weather: Partly cloudy, upper 20's, slight Sampling Time: Begin 1108 End 1150

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	137.56
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	76.86
Depth To Water (ft bmp)	29.23
Water Level Elevation (ft)	108.33
Water Column In Well (ft)	47.63
Casing Diameter/Type	2-inch PVC
Gallons In Well	7.6
Gallons Pumped/Bailed Prior To Sampling	38
Sample Pump Intake Setting (ft bmp)	≈ 136.56
Purge Time	Begin: 0910 End 0930
Pumping Rate (gpm)	varied
Evacuation Method	Rediflo pump

Field Parameters

Color	clear
Odor	none
Appearance	clear
pH (s.u.)	6.32
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	32.32
Turbidity (NTU)	591
Temperature (°C/ °F)	70.24
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	P.E. Bailer

Remarks: Collected MS/MSD

Constituents Sampled	Container Description	Number	Preservative
VOCs (8260)	40 mL vial	3	HCL
SVOCs (8270)	1 liter amber glass	2	4°C
Organochlorine Pesticides (8081)	1 liter amber glass	2	4°C
Organochlorine Herbicides(8151)	1 liter amber glass	2	4°C
Total Metals (6010) (6020)	250 mL plastic	1	HNO3
Dissolved Metals (6010) (6020)	250 mL plastic	1	4°C

Sampling Personnel: J.Trahan/G. Cook

Well Casing Volumes Gal./Ft.: 1" = 0.04; 1 - 1/4" = 0.06; 1 - 1/2" = 0.09; 2" = 0.16; 2 - 1/2" = 0.26; 3" = 0.37; 3 - 1/2" = 0.50; 4" = 0.65; 6" = 1.47

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

ARCADIS

FIELD PARAMETERS

Well Identification Number: **PZ-12A**

Job Name/Number: **Mississippi Bluffs/LA002656.0001.00013** Date: 2/3/2007

Water Level (TOC): 29.23 Total Depth: 76.86

OVM Reading: NA 5 Well Volumes: 38 gallons

Start Time: 0910 Total Volumes Removed: 38

Time	Water Level (ft gmp)	Temp (°F)	Spc. Cond. (umhos/cm)	Turbidity (NTU)	pH (s.u.)
0910	29.23	58.4	7,826	>1,100	6.08
		61.4	7,509	85.12	6.08
		63.7	7,520	22.79	6.08
		64.3	7,443	15.17	6.12
		64.4	7,460	5.37	6.09

Observations/Comments:

ARCADIS

WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00013

Site Location: Vicksburg, Mississippi Date: 1/31/2007

Site/Well No.: PZ-12B Replicate No.: NA Code No.: NA

Weather: Partly cloudy, low 30's slight wind Sampling Time: Begin 1127 End 1145

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	136.81
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	38.49
Depth To Water (ft bmp)	15.58
Water Level Elevation (ft)	121.23
Water Column In Well (ft)	22.91
Casing Diameter/Type	2-inch PVC
Gallons In Well	3.7
Gallons Pumped/Bailed Prior To Sampling	Dry at 5 gallons
Sample Pump Intake Setting (ft bmp)	≈ 135.81
Purge Time	Begin: 0938 End 0943
Pumping Rate (gpm)	varied
Evacuation Method	Rediflo pump

Field Parameters

Color	clear
Odor	none
Appearance	clear
pH (s.u.)	6.58
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	1,216
Turbidity (NTU)	13.77
Temperature (°C (°F)	59.1
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	P.E. Bailer
Remarks	

Constituents Sampled	Container Description	Number	Preservative
VOCs (8260)	40 mL vial	3	HCL
SVOCs (8270)	1 liter amber glass	2	4°C
Organochlorine Pesticides (8081)	1 liter amber glass	2	4°C
Organochlorine Herbicides(8151)	1 liter amber glass	2	4°C
Total Metals (6010) (6020)	250 mL plastic	1	HNO3
Dissolved Metals (6010) (6020)	250 mL plastic	1	4°C

Sampling Personnel: J.Trahan/G. Cook/C. Fontenot

Well Casing Volumes

Gal./Ft.				
1" = 0.04	1 - 1/2" = 0.09	2 - 1/2" = 0.26	3 - 1/2" = 0.50	6" = 1.47
1 - 1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

ARCADIS

FIELD PARAMETERS

Well Identification Number: PZ-12B

Job Name/Number: Mississippi Bluffs/LA002656.0001.00013 Date: 2/3/2007

Water Level (TOC): 15.58 Total Depth: 38.49

OVM Reading: NA 5 Well Volumes: 18.5

Start Time: 0938 Total Volumes Removed: Dry at 5 gallons

Time	Water Level (ft gmp)	Temp (°F)	Spc. Cond. (umhos/cm)	Turbidity (NTU)	pH (s.u.)
0938	15.58	56.6	1,425	58.46	6.42
		59.8	1,213	237.7	6.56

Observations/Comments:

ARCADIS

WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00013

Site Location: Vicksburg, Mississippi Date: 1/31/2007

Site/Well No.: PZ-20A Replicate No.: DUP-01 (013107) Code No.: NA

Weather: Partly cloudy, low 30's, slight Sampling Time: Begin 1205 End 1240

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	136.18
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	73.65
Depth To Water (ft bmp)	27.78
Water Level Elevation (ft)	108.40
Water Column In Well (ft)	45.87
Casing Diameter/Type	2-inch PVC
Gallons In Well	7.4
Gallons Pumped/Bailed Prior To Sampling	37
Sample Pump Intake Setting (ft bmp)	≈ 135.18
Purge Time	Begin: 1003 End 1026
Pumping Rate (gpm)	varied
Evacuation Method	Rediflo pump

Field Parameters

Color	clear
Odor	none
Appearance	clear
pH (s.u.)	6.86
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	2,118
Turbidity (NTU)	36.68
Temperature (°C/ °F)	63.6
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	P.E. Bailer
Remarks	

Constituents Sampled	Container Description	Number	Preservative
VOCs (8260)	40 mL vial	3	HCL
SVOCs (8270)	1 liter amber glass	2	4°C
Organochlorine Pesticides (8081)	1 liter amber glass	2	4°C
Organochlorine Herbicides(8151)	1 liter amber glass	2	4°C
Total Metals (6010) (6020)	250 mL plastic	1	HNO3
Dissolved Metals (6010) (6020)	250 mL plastic	1	4°C

Sampling Personnel: J.Trahan/G. Cook

Well Casing Volumes Gal./Ft.: 1" = 0.04; 1 - 1/4" = 0.06; 1 - 1/2" = 0.09; 2" = 0.16; 2 - 1/2" = 0.26; 3" = 0.37; 3 - 1/2" = 0.50; 4" = 0.65; 6" = 1.47

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

ARCADIS

FIELD PARAMETERS

Well Identification Number: PZ-20A

Job Name/Number: Mississippi Bluffs/LA002656.0001.00013 Date: 2/3/2007

Water Level (TOC): 27.78 Total Depth: 73.65

OVM Reading: NA 5 Well Volumes: 37

Start Time: 1003 Total Volumes Removed: 37

Time	Water Level (ft gmp)	Temp (°F)	Spc. Cond. (µmhos/cm)	Turbidity (NTU)	pH (s.u.)
1003	23.08	57.2	1,883	6.17	7.00
		63.7	3,290	504.8	6.50
		64.3	3,320	460.1	6.39
		64.4	3,331	6.73	6.35
		65.1	3,319	2.01	6.32
		65.7	3,303	2.20	6.29

Observations/Comments:

ARCADIS

WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00013

Site Location: Vicksburg, Mississippi Date: 1/31/2007

Site/Well No.: PZ-20B Replicate No.: NA Code No.: NA

Weather: Partly cloudy, low 30's, windy Sampling Time: Begin 1217 End 1245

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	136.16
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	40.28
Depth To Water (ft bmp)	20.55
Water Level Elevation (ft)	115.61
Water Column In Well (ft)	19.73
Casing Diameter/Type	2-inch PVC
Gallons In Well	3.2
Gallons Pumped/Bailed Prior To Sampling	Dry at 5 gallons
Sample Pump Intake Setting (ft bmp)	≈ 135.18
Purge Time	Begin: 1030 End 1035
Pumping Rate (gpm)	varied
Evacuation Method	Rediflo pump

Field Parameters

Color	clear
Odor	none
Appearance	clear
pH (s.u.)	6.03
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	25,540
Turbidity (NTU)	17.92
Temperature (°C/ °F)	64.5
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	P.E. Bailer

Remarks

Constituents Sampled	Container Description	Number	Preservative
VOCs (8260)	40 mL vial	3	HCL
SVOCs (8270)	1 liter amber glass	2	4°C
Organochlorine Pesticides (8081)	1 liter amber glass	2	4°C
Organochlorine Herbicides(8151)	1 liter amber glass	2	4°C
Total Metals (6010) (6020)	250 mL plastic	1	HNO3
Dissolved Metals (6010) (6020)	250 mL plastic	1	4°C

Sampling Personnel: J.Trahan/G. Cook

Well Casing Volumes Gal./Ft.: 1" = 0.04; 1 - 1/4" = 0.06; 1 - 1/2" = 0.09; 2" = 0.16; 2 - 1/2" = 0.26; 3" = 0.37; 3 - 1/2" = 0.50; 4" = 0.65; 6" = 1.47

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

ARCADIS

FIELD PARAMETERS

Well Identification Number: **PZ-20B**

Job Name/Number:	**Mississippi Bluffs/LA002656.0001.00013**	Date:	2/3/2007
Water Level (TOC):	20.55	Total Depth:	40.28
OVM Reading:	NA	5 Well Volumes:	16
Start Time:	1030	Total Volumes Removed:	Dry at 5 gallons

Time	Water Level (ft gmp)	Temp (°F)	Spc. Cond. (µmhos/cm)	Turbidity (NTU)	pH (s.u.)
1030	20.55	60.2	26,212	457.2	5.97
		62.5	25,040	65.92	6.23

Observations/Comments:

ARCADIS

WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00013

Site Location: Vicksburg, Mississippi Date: 2/1/2007

Site/Well No.: PZ-21A Replicate No.: NA Code No.: NA

Weather: Overcast, upper 30's, windy Sampling Time: Begin 0930 End 0940

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	115.14
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	59.14
Depth To Water (ft bmp)	6.51
Water Level Elevation (ft)	108.63
Water Column In Well (ft)	52.63
Casing Diameter/Type	2-inch PVC
Gallons In Well	8.5
Gallons Pumped/Bailed Prior To Sampling	Dry at 17 gallons
Sample Pump Intake Setting (ft bmp)	≈ 58.14
Purge Time	Begin: 0907 End 0924
Pumping Rate (gpm)	varied
Evacuation Method	Rediflo pump

Field Parameters

Color	very light gray
Odor	none
Appearance	slightly cloudy
pH (s.u.)	7.34
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	803.9
Turbidity (NTU)	245.4
Temperature (°C/ °F)	66.5
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	P.E. Bailer
Remarks	

Constituents Sampled	Container Description	Number	Preservative
VOCs (8260)	40 mL vial	3	HCL
SVOCs (8270)	1 liter amber glass	2	4°C
Organochlorine Pesticides (8081)	1 liter amber glass	2	4°C
Organochlorine Herbicides(8151)	1 liter amber glass	2	4°C
Total Metals (6010) (6020)	250 mL plastic	1	HNO3
Dissolved Metals (6010) (6020)	250 mL plastic	1	4°C

Sampling Personnel: J.Trahan/G. Cook

Well Casing Volumes

Gal./Ft.				
1" = 0.04	1 - 1/2" = 0.09	2 - 1/2" = 0.26	3 - 1/2" = 0.50	6" = 1.47
1 - 1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

ARCADIS

FIELD PARAMETERS

Well Identification Number: PZ-21A

Job Name/Number: Mississippi Bluffs/LA002656.0001.00013 Date: 2/1/2007

Water Level (TOC): 6.51 Total Depth: 59.14

OVM Reading: NA 5 Well Volumes: 43

Start Time: 0907 Total Volumes Removed: Dry at 17 gallons

Time	Water Level (ft gmp)	Temp (°F)	Spc. Cond. (µmhos/cm)	Turbidity (NTU)	pH (s.u.)
0907	6.51	66.8	732.3	71.1	7.25
		57.4	746.5	400.5	7.28
0924		66.5	803.9	245.4	7.34

Observations/Comments:

ARCADIS

WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00013

Site Location: Vicksburg, Mississippi Date: 2/8/2007

Site/Well No.: PZ-22A Replicate No.: NA Code No.: NA

Weather: Overcast, cold (40°F) Sampling Time: Begin 0808 End 0818

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	112.51
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	57.00
Depth To Water (ft bmp)	4.71
Water Level Elevation (ft)	107.80
Water Column In Well (ft)	47.29
Casing Diameter/Type	2-inch PVC
Gallons In Well	7.6
Gallons Pumped/Bailed Prior To Sampling	38 gallons
Sample Pump Intake Setting (ft bmp)	≈ 51
Purge Time	Begin: 0728 End 0808
Pumping Rate (gpm)	varied
Evacuation Method	Rediflo pump

Field Parameters

Color	light tan
Odor	none
Appearance	cloudy
pH (s.u.)	6.95
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	810.6
Turbidity (NTU)	293.5
Temperature (°C/°F)	63.0
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	P.E. Bailer
Remarks	

Constituents Sampled	Container Description	Number	Preservative
VOCs (8260)	40 mL vial	3	HCL
SVOCs (8270)	1 liter amber glass	2	4°C
Organochlorine Pesticides (8081)	1 liter amber glass	2	4°C
Organochlorine Herbicides(8151)	1 liter amber glass	2	4°C
Total Metals (6010) (6020)	250 mL plastic	1	HNO3
Dissolved Metals (6010) (6020)	250 mL plastic	1	4°C

Sampling Personnel: K. Montgomery/G. Cook

Well Casing Volumes Gal./Ft.: 1" = 0.04; 1 - 1/4" = 0.06; 1 - 1/2" = 0.09; 2" = 0.16; 2 - 1/2" = 0.26; 3" = 0.37; 3 - 1/2" = 0.50; 4" = 0.65; 6" = 1.47

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

ARCADIS

FIELD PARAMETERS

Well Identification Number: PZ-22A

Job Name/Number: Mississippi Bluffs/LA002656.0001.00013 Date: 2/8/2007

Water Level (TOC): 4.71 Total Depth: 52.00

OVM Reading: NA 5 Well Volumes: 27.7

Start Time: 0728 Total Volumes Removed: 38 gallons

Time	Water Level (ft gmp)	Temp (°F)	Spc. Cond. (µmhos/cm)	Turbidity (NTU)	pH (s.u.)
0728	4.71	59.1	860.9	17.99	6.85
		66.7	757.0	336.6	6.88
		67.3	813.0	503.0	6.94
		67.6	820.0	612.0	6.92
		67.0	824.0	210.0	6.96
0808		63.0	810.6	293.5	6.95

Observations/Comments:

ARCADIS

WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00013

Site Location: Vicksburg, Mississippi Date: 2/8/2007

Site/Well No.: PZ-22B Replicate No.: NA Code No.: NA

Weather: Cloudy, cool (40°F), light breeze Sampling Time: Begin 0825 End 0910

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	113.42
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	27.44
Depth To Water (ft bmp)	3.88
Water Level Elevation (ft)	109.54
Water Column In Well (ft)	23.56
Casing Diameter/Type	2-inch PVC
Gallons In Well	3.77
Gallons Pumped/Bailed Prior To Sampling	Dry at 8 gallons
Sample Pump Intake Setting (ft bmp)	
Purge Time	Begin: 0828 End 0829
Pumping Rate (gpm)	varied
Evacuation Method	Rediflo pump

Field Parameters

Color	light tan
Odor	slight
Appearance	slightly cloudy
pH (s.u.)	6.81
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	35,240
Turbidity (NTU)	85.25
Temperature (°C/ °F)	60.3
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	P.E. Bailer

Remarks: Water reacted slightly with HCl in VOCs.

Constituents Sampled	Container Description	Number	Preservative
VOCs (8260)	40 mL vial	3	HCL
SVOCs (8270)	1 liter amber glass	2	4°C
Organochlorine Pesticides (8081)	1 liter amber glass	2	4°C
Organochlorine Herbicides(8151)	1 liter amber glass	2	4°C
Total Metals (6010) (6020)	250 mL plastic	1	HNO3
Dissolved Metals (6010) (6020)	250 mL plastic	1	4°C

Sampling Personnel: K. Montgomery/G. Cook

Well Casing Volumes

Gal./Ft.: 1" = 0.04; 1 - 1/4" = 0.06; 1 - 1/2" = 0.09; 2" = 0.16; 2 - 1/2" = 0.26; 3" = 0.37; 3 - 1/2" = 0.50; 4" = 0.65; 6" = 1.47

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

ARCADIS

FIELD PARAMETERS

Well Identification Number: PZ-22B

Job Name/Number:	Mississippi Bluffs/LA002656.0001.00013	Date:	2/8/2007
Water Level (TOC):	3.88	Total Depth:	27.44
OVM Reading:	NA	5 Well Volumes:	11.31 gallons
Start Time:	0828	Total Volumes Removed:	Dry at 8 gallons

Time	Water Level (ft gmp)	Temp (°F)	Spc. Cond. (µmhos/cm)	Turbidity (NTU)	pH (s.u.)
0828	3.88	60.5	26,950	49.66	6.76
		64.7	25,560	23.22	6.92
Dry at 8 gallons					
0839		61.8	27,220	16.24	6.95

Observations/Comments:

ARCADIS

WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00013

Site Location: Vicksburg, Mississippi Date: 2/1/2007

Site/Well No.: PZ-23A Replicate No.: NA Code No.: NA

Weather: Overcast, upper 30's, windy Sampling Time: Begin 1030 End 1045

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	112.67
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	51.51
Depth To Water (ft bmp)	4.42
Water Level Elevation (ft)	108.25
Water Column In Well (ft)	47.09
Casing Diameter/Type	2-inch PVC
Gallons In Well	7.5
Gallons Pumped/Bailed Prior To Sampling	Dry at 25 gallons
Sample Pump Intake Setting (ft bmp)	≈ 50.51
Purge Time	Begin: 1005 End 1026
Pumping Rate (gpm)	varied
Evacuation Method	Rediflo pump

Field Parameters

Color	tan
Odor	none
Appearance	slightly cloudy
pH (s.u.)	7.10
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	799.6
Turbidity (NTU)	137.7
Temperature (°C/(°F))	63.7
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	P.E. Bailer

Remarks

Constituents Sampled	Container Description	Number	Preservative
VOCs (8260)	40 mL vial	3	HCL
SVOCs (8270)	1 liter amber glass	2	4°C
Organochlorine Pesticides (8081)	1 liter amber glass	2	4°C
Organochlorine Herbicides(8151)	1 liter amber glass	2	4°C
Total Metals (6010) (6020)	250 mL plastic	1	HNO3
Dissolved Metals (6010) (6020)	250 mL plastic	1	4°C

Sampling Personnel: J.Trahan/G. Cook

Well Casing Volumes Gal./Ft.: 1" = 0.04; 1 - 1/4" = 0.06; 1 - 1/2" = 0.09; 2" = 0.16; 2 - 1/2" = 0.26; 3" = 0.37; 3 - 1/2" = 0.50; 4" = 0.65; 6" = 1.47

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

ARCADIS

FIELD PARAMETERS

Well Identification Number: **PZ-23A**

Job Name/Number: **Mississippi Bluffs/LA002656.0001.00013** Date: 2/1/2007

Water Level (TOC): 4.42 Total Depth: 51.51

OVM Reading: NA 5 Well Volumes: 38 gallons

Start Time: 1005 Total Volumes Removed: Dry at 25 gallons

Time	Water Level (ft gmp)	Temp (°F)	Spc. Cond. (µmhos/cm)	Turbidity (NTU)	pH (s.u.)
1005	4.42	53.7	849.2	28.0	7.53
		66.4	841.3	1078.0	7.22
		65.5	813.6	182.2	7.13
		65.3	800.2	93.18	7.13

Observations/Comments:

ARCADIS

WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00013

Site Location: Vicksburg, Mississippi Date: 2/8/2007

Site/Well No.: PZ-23B Replicate No.: NA Code No.: NA

Weather: Cloudy, cold (40°F) Sampling Time: Begin 1200 End 1215

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	113.10
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	30.03
Depth To Water (ft bmp)	3.43
Water Level Elevation (ft)	109.67
Water Column In Well (ft)	26.60
Casing Diameter/Type	2-inch PVC
Gallons In Well	4.30
Gallons Pumped/Bailed Prior To Sampling	Dry at 8 gallons
Sample Pump Intake Setting (ft bmp)	≈ 29.0
Purge Time	Begin: 1130 End 1140
Pumping Rate (gpm)	varied
Evacuation Method	Rediflo pump

Field Parameters

Color	tan
Odor	none
Appearance	cloudy
pH (s.u.)	7.42
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	12,420
Turbidity (NTU)	712.6
Temperature (°C/(°F))	61.7
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	P.E. Bailer
Remarks	

Constituents Sampled	Container Description	Number	Preservative
VOCs (8260)	40 mL vial	3	HCL
SVOCs (8270)	1 liter amber glass	2	4°C
Organochlorine Pesticides (8081)	1 liter amber glass	2	4°C
Organochlorine Herbicides(8151)	1 liter amber glass	2	4°C
Total Metals (6010) (6020)	250 mL plastic	1	HNO3
Dissolved Metals (6010) (6020)	250 mL plastic	1	4°C

Sampling Personnel: K. Montgomery/G. Cook

Well Casing Volumes Gal./Ft.: 1" = 0.04; 1 - 1/4" = 0.06; 1 - 1/2" = 0.09; 2" = 0.16; 2 - 1/2" = 0.26; 3" = 0.37; 3 - 1/2" = 0.50; 4" = 0.65; 6" = 1.47

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

ARCADIS

FIELD PARAMETERS

Well Identification Number: PZ-23B

Job Name/Number: Mississippi Bluffs/LA002656.0001.00013 Date: 2/8/2007

Water Level (TOC): 3.43 Total Depth: 30.03

OVM Reading: NA 3 Well Volumes: 12.77 gallons

Start Time: 1130 Total Volumes Removed: Dry at 8 gallons

Time	Water Level (ft gmp)	Temp (°F)	Spc. Cond. (µmhos/cm)	Turbidity (NTU)	pH (s.u.)
1130	3.43	59.7	12,050	175.4	7.11
1140		60.3	12,170	796.7	7.24
Dry at 8 gallons					

Observations/Comments:

ARCADIS

WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00013

Site Location: Vicksburg, Mississippi Date: 2/1/2007

Site/Well No.: PZ-24B Replicate No.: NA Code No.: NA

Weather: Overcast, cold (40°F), windy Sampling Time: Begin 1115 End 1148

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	112.08
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	48.05
Depth To Water (ft bmp)	4.71
Water Level Elevation (ft)	107.37
Water Column In Well (ft)	43.34
Casing Diameter/Type	2-inch PVC
Gallons In Well	7.0
Gallons Pumped/Bailed Prior To Sampling	Dry at 15 gallons
Sample Pump Intake Setting (ft bmp)	≈ 47.05
Purge Time	Begin: 1100 End 1112
Pumping Rate (gpm)	varied
Evacuation Method	Rediflo pump

Field Parameters

Color	clear
Odor	none
Appearance	clear
pH (s.u.)	7.04
Conductivity (ms/cm)	
Conductivity (µmhos/cm)	798.1
Turbidity (NTU)	21.11
Temperature (°C/ °F)	67.1
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	P.E. Bailer

Remarks: PVC well casing bent at pad.

Constituents Sampled	Container Description	Number	Preservative
VOCs (8260)	40 mL vial	3	HCL
SVOCs (8270)	1 liter amber glass	2	4°C
Organochlorine Pesticides (8081)	1 liter amber glass	2	4°C
Organochlorine Herbicides(8151)	1 liter amber glass	2	4°C
Total Metals (6010) (6020)	250 mL plastic	1	HNO3
Dissolved Metals (6010) (6020)	250 mL plastic	1	4°C

Sampling Personnel: J.Trahan/G. Cook/C. Fontenot

Well Casing Volumes Gal./Ft.: 1" = 0.04; 1 - 1/4" = 0.06; 1 - 1/2" = 0.09; 2" = 0.16; 2 - 1/2" = 0.26; 3" = 0.37; 3 - 1/2" = 0.50; 4" = 0.65; 6" = 1.47

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

ARCADIS

FIELD PARAMETERS

Well Identification Number: PZ-24B

Job Name/Number: Mississippi Bluffs/LA002656.0001.00013

Date: 2/1/2007

Water Level (TOC): 4.71

Total Depth: 48.05

OVM Reading: NA

5 Well Volumes: 35 gallons

Start Time: 1100

Total Volumes Removed: Dry at 15 gallons

Time	Water Level (ft gmp)	Temp (°F)	Spc. Cond. (µmhos/cm)	Turbidity (NTU)	pH (s.u.)
1100	4.71	61.1	488.9	15.91	7.86
		65.9	639.5	1026.0	7.35
		66.2	800.4	29.71	7.11

Observations/Comments:

ARCADIS

WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00013

Site Location: Vicksburg, Mississippi Date: 2/6/2007

Site/Well No.: PZ-25B Replicate No.: NA Code No.: NA

Weather: Sunny, cold, 36°F Sampling Time: Begin 0843 End 0904

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	113.82
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	42.90
Depth To Water (ft bmp)	2.65
Water Level Elevation (ft)	111.17
Water Column In Well (ft)	40.25
Casing Diameter/Type	2-inch PVC
Gallons In Well	6.4
Gallons Pumped/Bailed Prior To Sampling	Dry at 11 gallons
Sample Pump Intake Setting (ft bmp)	≈ 41.90
Purge Time	Begin: 0816 End 0830
Pumping Rate (gpm)	varied
Evacuation Method	Rediflo pump

Field Parameters

Color	tan
Odor	none
Appearance	turbid
pH (s.u.)	6.54
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	8,675
Turbidity (NTU)	>1,100
Temperature (°C/(°F)	64.8
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	P.E. Bailer
Remarks	

Constituents Sampled	Container Description	Number	Preservative
VOCs (8260)	40 mL vial	3	HCL
SVOCs (8270)	1 liter amber glass	2	4°C
Organochlorine Pesticides (8081)	1 liter amber glass	2	4°C
Organochlorine Herbicides(8151)	1 liter amber glass	2	4°C
Total Metals (6010) (6020)	250 mL plastic	1	HNO3
Dissolved Metals (6010) (6020)	250 mL plastic	1	4°C

Sampling Personnel: G. Cook

Well Casing Volumes Gal./Ft.: 1" = 0.04; 1 - 1/2" = 0.09; 2 - 1/2" = 0.26; 3 - 1/2" = 0.50; 6" = 1.47; 1 - 1/4" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

ARCADIS

FIELD PARAMETERS

Well Identification Number: **PZ-25B**

Job Name/Number:	Mississippi Bluffs/LA002656.0001.00013	Date:	2/6/2007
Water Level (TOC):	2.65	Total Depth:	42.90
OVM Reading:	NA	5 Well Volumes:	32
Start Time:	0816	Total Volumes Removed:	11 gallons

Time	Water Level (ft gmp)	Temp (°F)	Spc. Cond. (µmhos/cm)	Turbidity (NTU)	pH (s.u.)
0816	2.65	62.7	6,408	20.55	6.44
		64.7	6,214	>1,100	6.50
0830		64.9	6,246	482.6	6.52
Dry at 11 gallons					

Observations/Comments: _____

ARCADIS

WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00013

Site Location: Vicksburg, Mississippi Date: 2/8/2007

Site/Well No.: PZ-26A Replicate No.: NA Code No.: NA

Weather: Cloudy, cold (40°F), breezy Sampling Time: Begin 1010 End 1050

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	108.82
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	40.68
Depth To Water (ft bmp)	6.98
Water Level Elevation (ft)	101.84
Water Column In Well (ft)	33.70
Casing Diameter/Type	4-inch PVC
Gallons In Well	21.905
Gallons Pumped/Bailed Prior To Sampling	Dry at 33 gallons
Sample Pump Intake Setting (ft bmp)	= 40
Purge Time	Begin: 0930 End 0950
Pumping Rate (gpm)	varied
Evacuation Method	Rediflo pump

Field Parameters

Color	tan
Odor	none
Appearance	cloudy
pH (s.u.)	6.57
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	6,495
Turbidity (NTU)	>1,100
Temperature (°C/ °F)	60.1
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	P.E. Bailer
Remarks	

Constituents Sampled	Container Description	Number	Preservative
VOCs (8260)	40 mL vial	3	HCL
SVOCs (8270)	1 liter amber glass	2	4°C
Organochlorine Pesticides (8081)	1 liter amber glass	2	4°C
Organochlorine Herbicides(8151)	1 liter amber glass	2	4°C
Total Metals (6010) (6020)	250 mL plastic	1	HNO3
Dissolved Metals (6010) (6020)	250 mL plastic	1	4°C

Sampling Personnel: K. Montgomery/G. Cook

Well Casing Volumes Gal./Ft.: 1" = 0.04; 1 - 1/4" = 0.06; 1 - 1/2" = 0.09; 2" = 0.16; 2 - 1/2" = 0.26; 3" = 0.37; 3 - 1/2" = 0.50; 4" = 0.65; 6" = 1.47

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

ARCADIS

FIELD PARAMETERS

Well Identification Number: **PZ-26A**

Job Name/Number:	**Mississippi Bluffs/LA002656.0001.00013**	Date:	2/8/2007
Water Level (TOC):	6.98	Total Depth:	40.68
OVM Reading:	NA	5 Well Volumes:	65.72 gallons
Start Time:	0930	Total Volumes Removed:	Dry at

Time	Water Level (ft gmp)	Temp (°F)	Spc. Cond. (µmhos/cm)	Turbidity (NTU)	pH (s.u.)
0930	6.98	61.8	8,403	8.96	6.69
		64.6	7,598	1,100	6.98

Observations/Comments:

ARCADIS

WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00013

Site Location: Vicksburg, Mississippi Date: 2/8/2007

Site/Well No.: PZ-26B Replicate No.: NA Code No.: NA

Weather: Cloudy, cold (40°F), breezy Sampling Time: Begin 1100 End 1120

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	109.03
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	31.68
Depth To Water (ft bmp)	7.74
Water Level Elevation (ft)	101.29
Water Column In Well (ft)	23.94
Casing Diameter/Type	4-inch PVC
Gallons In Well	15.6
Gallons Pumped/Bailed Prior To Sampling	Dry at 31 gallons
Sample Pump Intake Setting (ft bmp)	≈ 31.0
Purge Time	Begin: 1025 End 1040
Pumping Rate (gpm)	varied
Evacuation Method	Rediflo pump

Field Parameters

Color	light brown
Odor	none
Appearance	cloudy
pH (s.u.)	7.17
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	1,824
Turbidity (NTU)	86.92
Temperature (°C/ °F)	61.0
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	P.E. Bailer

Remarks

Constituents Sampled	Container Description	Number	Preservative
VOCs (8260)	40 mL vial	3	HCL
SVOCs (8270)	1 liter amber glass	2	4°C
Organochlorine Pesticides (8081)	1 liter amber glass	2	4°C
Organochlorine Herbicides(8151)	1 liter amber glass	2	4°C
Total Metals (6010) (6020)	250 mL plastic	1	HNO3
Dissolved Metals (6010) (6020)	250 mL plastic	1	4°C

Sampling Personnel: K. Montgomery/G. Cook

Well Casing Volumes Gal./Ft.: 1" = 0.04; 1 - 1/4" = 0.06; 1 - 1/2" = 0.09; 2" = 0.16; 2 - 1/2" = 0.26; 3" = 0.37; 3 - 1/2" = 0.50; 4" = 0.65; 6" = 1.47

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

ARCADIS

FIELD PARAMETERS

Well Identification Number: **PZ-26B**

Job Name/Number:	**Mississippi Bluffs/LA002656.0001.00013**	Date:	2/8/2007
Water Level (TOC):	7.74	Total Depth:	31.68
OVM Reading:	NA	5 Well Volumes:	46.7 gallons
Start Time:	1025	Total Volumes Removed:	Dry at 31 gallons

Time	Water Level (ft gmp)	Temp (°F)	Spc. Cond. (µmhos/cm)	Turbidity (NTU)	pH (s.u.)
1025	7.74	63.2	1,942	677.2	6.77
		63.8	1,887	974.3	6.86
1040		63.3	1,807	21,100	7.06

Observations/Comments:

ARCADIS

WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00013

Site Location: Vicksburg, Mississippi Date: 2/7/2007

Site/Well No.: RRUW Replicate No.: NA Code No.: NA

Weather: Sunny, mid 60's Sampling Time: Begin 1550 End 1610

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	111.28
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	33.01
Depth To Water (ft bmp)	2.53
Water Level Elevation (ft)	108.75
Water Column In Well (ft)	30.48
Casing Diameter/Type	4-inch PVC
Gallons In Well	20
Gallons Pumped/Bailed Prior To Sampling	Dry at 22 gallons
Sample Pump Intake Setting (ft bmp)	≈ 32.61
Purge Time	Begin: 1525 End 1540
Pumping Rate (gpm)	varied
Evacuation Method	Rediflo pump

Field Parameters

Color	clear
Odor	none
Appearance	slightly cloudy
pH (s.u.)	7.26
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	5,525
Turbidity (NTU)	138.8
Temperature (°C/°F)	70.4
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	P.E. Bailer
Remarks	

Constituents Sampled	Container Description	Number	Preservative
VOCs (8260)	40 mL vial	3	HCL
SVOCs (8270)	1 liter amber glass	2	4°C
Organochlorine Pesticides (8081)	1 liter amber glass	2	4°C
Organochlorine Herbicides(8151)	1 liter amber glass	2	4°C
Total Metals (6010) (6020)	250 mL plastic	1	HNO3
Dissolved Metals (6010) (6020)	250 mL plastic	1	4°C

Sampling Personnel: K. Montgomery/G. Cook

Well Casing Volumes Gal./Ft.: 1" = 0.04; 1 - 1/4" = 0.06; 1 - 1/2" = 0.09; 2" = 0.16; 2 - 1/2" = 0.26; 3" = 0.37; 3 - 1/2" = 0.50; 4" = 0.65; 6" = 1.47

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

ARCADIS

FIELD PARAMETERS

Well Identification Number: **RRUW**

Job Name/Number:	**Mississippi Bluffs/LA002656.0001.00013**	Date:	2/7/2007
Water Level (TOC):	2.53	Total Depth:	33.01
OVM Reading:	NA	5 Well Volumes:	100
Start Time:	1525	Total Volumes Removed:	Dry at 22 gallons

Time	Water Level (ft gmp)	Temp (°F)	Spc. Cond. (umhos/cm)	Turbidity (NTU)	pH (s.u.)
1525	2.53	71.3	6,520	92.16	6.85
1540		67.3	5,426	114.2	7.25
Dry at 22 gallons					

Observations/Comments:

ARCADIS

WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00013

Site Location: Vicksburg, Mississippi Date: 1/31/2007

Site/Well No.: SPUW Replicate No.: NA Code No.: NA

Weather: Partly cloudy, upper 20's, slight Sampling Time: Begin 1040 End 2/1/07 (0723)

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	142.88
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	64.33
Depth To Water (ft bmp)	0.32
Water Level Elevation (ft)	142.56
Water Column In Well (ft)	64.01
Casing Diameter/Type	2-inch PVC
Gallons In Well	10.24
Gallons Pumped/Bailed Prior To Sampling	Dry at 15 gallons
Sample Pump Intake Setting (ft bmp)	≈ 141.88
Purge Time	Begin: 0840 End 0850
Pumping Rate (gpm)	varied
Evacuation Method	Rediflo pump

Field Parameters

Color	clear
Odor	none
Appearance	clear
pH (s.u.)	7.63
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	249.5
Turbidity (NTU)	7.53
Temperature (°C/°F)	61.6
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	P.E. Bailer

Remarks

Well did not recharge. Only collected 3 1-liters and VOCs. Lab will run what they can with volume they have collected.

Constituents Sampled	Container Description	Number	Preservative
VOCs (8260)	40 mL vial	3	HCL
SVOCs (8270)	1 liter amber glass	2	4°C
Organochlorine Pesticides (8081)	1 liter amber glass	2	4°C
Organochlorine Herbicides(8151)	1 liter amber glass	2	4°C
Total Metals (6010) (6020)	250 mL plastic	1	HNO3

Sampling Personnel: J.Trahan/G. Cook/C. Fontenot

Well Casing Volumes

Gal./Ft.: 1" = 0.04; 1 - 1/2" = 0.09; 2 - 1/2" = 0.26; 3 - 1/2" = 0.50; 6" = 1.47; 1 - 1/4" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

ARCADIS

FIELD PARAMETERS

Well Identification Number: **SPUW**

Job Name/Number: **Mississippi Bluffs/LA002656.0001.00013** Date: 1/31/2007

Water Level (TOC): 0.32 Total Depth: 64.33

OVM Reading: NA 5 Well Volumes: 31

Start Time: 0840 Total Volumes Removed: 15 gallons

Time	Water Level (ft gmp)	Temp (°F)	Spc. Cond. (µmhos/cm)	Turbidity (NTU)	pH (s.u.)
0840	0.32	57.8	172	5.15	7.43
850		55.8	172.3	6.51	7.34

Observations/Comments:

ARCADIS

WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00014

Site Location: Vicksburg, Mississippi Date: 2/1/2007

Site/Well No.: SW-01 (020107) Replicate No.: DUP-SW-01 (020107) Code No.: NA

Weather: Overcast, low 40's, light rain Sampling Time: Begin 1415 End 1435

Evacuation Data

Measuring Point	NA
MP Elevation (ft)	NA
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	NA
Depth To Water (ft bmp)	NA
Water Level Elevation (ft)	NA
Water Column In Well (ft)	NA
Casing Diameter/Type	NA
Gallons In Well	NA
Gallons Pumped/Bailed Prior To Sampling	NA
Sample Pump Intake Setting (ft bmp)	NA
Purge Time	Begin: NA End NA
Pumping Rate (gpm)	NA
Evacuation Method	NA

Field Parameters

Color	tan
Odor	none
Appearance	slightly cloudy
pH (s.u.)	7.58
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	572.6
Turbidity (NTU)	95.90
Temperature (°C (°F))	45.7
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	3 quart pyrex bowl

Remarks: DUP-SW-01 (020107) counter # 1B

Constituents Sampled	Container Description	Number	Preservative
VOCs	40 mL glass vial	3	HCl, 4°C
SVOCs	1 liter amber glass	3	4°C
Pesticides	1 liter amber glass	2	4°C
Herbicides	1 liter amber glass	2	4°C
Dissolved Metals	250 mL HDPE	1	4°C
Total Metals	250 mL HDPE	1	HNO3, 4°C
Fluoride	250 mL HDPE	1	4°C
BOD	250 mL HDPE	1	4°C
NH3, COD, NO3, T-Phosphorus,	250 mL HDPE	1	H2SO4, 4°C
CL, SO, TDS, TSS, pH	250 mL HDPE	1	4°C

Sampling Personnel: G. Cook/J. Trahan/C. Fontenot

Well Casing Volumes Gal./Ft.: 1" = 0.04; 1 - 1/4" = 0.06; 1 - 1/2" = 0.09; 2" = 0.16; 2 - 1/2" = 0.26; 3" = 0.37; 3 - 1/2" = 0.50; 4" = 0.65; 6" = 1.47

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

ARCADIS

WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00014

Site Location: Vicksburg, Mississippi Date: 2/1/2007

Site/Well No.: SW-02 (020107) Replicate No.: NA Code No.: NA

Weather: Overcast, low 40's, light rain Sampling Time: Begin 1605 End 1610

Evacuation Data

Measuring Point	NA
MP Elevation (ft)	NA
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	NA
Depth To Water (ft bmp)	NA
Water Level Elevation (ft)	NA
Water Column In Well (ft)	NA
Casing Diameter/Type	NA
Gallons In Well	NA
Gallons Pumped/Bailed Prior To Sampling	NA
Sample Pump Intake Setting (ft bmp)	NA
Purge Time	Begin: NA End NA
Pumping Rate (gpm)	NA
Evacuation Method	NA

Field Parameters

Color	clear
Odor	none
Appearance	clear
pH (s.u.)	7.21
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	65.87
Turbidity (NTU)	27.13
Temperature (°C/(°F)	47.6
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	3 quart pyrex bowl
Remarks	

Constituents Sampled	Container Description	Number	Preservative
VOCs	40 mL glass vial	3	HCl, 4°C
SVOCs	1 liter amber glass	3	4°C
Pesticides	1 liter amber glass	2	4°C
Herbicides	1 liter amber glass	2	4°C
Dissolved Metals	250 mL HDPE	1	4°C
Total Metals	250 mL HDPE	1	HNO3, 4°C
Fluoride	250 mL HDPE	1	4°C
BOD	250 mL HDPE	1	4°C
NH3, COD, NO3, T-Phosphorus,	250 mL HDPE	1	H2SO4, 4°C
CL, SO, TDS, TSS, pH	250 mL HDPE	1	4°C

Sampling Personnel: G. Cook/J. Trahan/C. Fontenot

Well Casing Volumes Gal./Ft.: 1" = 0.04; 1 - 1/4" = 0.06; 1 - 1/2" = 0.09; 2" = 0.16; 2 - 1/2" = 0.26; 3" = 0.37; 3 - 1/2" = 0.50; 4" = 0.65; 6" = 1.47

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

ARCADIS

WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00014

Site Location: Vicksburg, Mississippi Date: 2/1/2007

Site/Well No.: SW-03 (020107) Replicate No.: NA Code No.: NA

Weather: Overcast, low 40's, light rain Sampling Time: Begin 1445 End 1455

Evacuation Data

Measuring Point	NA
MP Elevation (ft)	NA
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	NA
Depth To Water (ft bmp)	NA
Water Level Elevation (ft)	NA
Water Column In Well (ft)	NA
Casing Diameter/Type	NA
Gallons In Well	NA
Gallons Pumped/Bailed Prior To Sampling	NA
Sample Pump Intake Setting (ft bmp)	NA
Purge Time	Begin: NA End NA
Pumping Rate (gpm)	NA
Evacuation Method	NA

Field Parameters

Color	tan
Odor	none
Appearance	slightly cloudy
pH (s.u.)	6.74
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	576.7
Turbidity (NTU)	84.85
Temperature (°C/(°F))	46.0
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	3 quart pyrex bowl
Remarks	

Constituents Sampled	Container Description	Number	Preservative
VOCs	40 mL glass vial	3	HCl, 4°C
SVOCs	1 liter amber glass	3	4°C
Pesticides	1 liter amber glass	2	4°C
Herbicides	1 liter amber glass	2	4°C
Dissolved Metals	250 mL HDPE	1	4°C
Total Metals	250 mL HDPE	1	HNO3, 4°C
Fluoride	250 mL HDPE	1	4°C
BOD	250 mL HDPE	1	4°C
NH3, COD, NO3, T-Phosphorus,	250 mL HDPE	1	H2SO4, 4°C
CL, SO, TDS, TSS, pH	250 mL HDPE	1	4°C

Sampling Personnel: G. Cook/J. Trahan/C. Fontenot

Well Casing Volumes

Gal./Ft.				
1" = 0.04	1 - 1/2" = 0.09	2 - 1/2" = 0.26	3 - 1/2" = 0.50	6" = 1.47
1 - 1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

ARCADIS

WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00014

Site Location: Vicksburg, Mississippi Date: 2/1/2007

Site/Well No.: SW-04 (020107) Replicate No.: NA Code No.: NA

Weather: Overcast, low 40's, light rain Sampling Time: Begin 1500 End 1505

Evacuation Data

Measuring Point	NA
MP Elevation (ft)	NA
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	NA
Depth To Water (ft bmp)	NA
Water Level Elevation (ft)	NA
Water Column In Well (ft)	NA
Casing Diameter/Type	NA
Gallons In Well	NA
Gallons Pumped/Bailed Prior To Sampling	NA
Sample Pump Intake Setting (ft bmp)	NA
Purge Time	Begin: NA End NA
Pumping Rate (gpm)	NA
Evacuation Method	NA

Field Parameters

Color	tan
Odor	none
Appearance	slightly cloudy
pH (s.u.)	6.85
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	484.8
Turbidity (NTU)	144.20
Temperature (°C/(°F)	45.3
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	3 quart pyrex bowl
Remarks	

Constituents Sampled	Container Description	Number	Preservative
VOCs	40 mL glass vial	3	HCl, 4°C
SVOCs	1 liter amber glass	3	4°C
Pesticides	1 liter amber glass	2	4°C
Herbicides	1 liter amber glass	2	4°C
Dissolved Metals	250 mL HDPE	1	4°C
Total Metals	250 mL HDPE	1	HNO3, 4°C
Fluoride	250 mL HDPE	1	4°C
BOD	250 mL HDPE	1	4°C
NH3, COD, NO3, T-Phosphorus,	250 mL HDPE	1	H2SO4, 4°C
CL, SO, TDS, TSS, pH	250 mL HDPE	1	4°C

Sampling Personnel: G. Cook/J. Trahan/C. Fontenot

Well Casing Volumes

Gal./Ft. 1" = 0.04; 1 - 1/4" = 0.06; 1 - 1/2" = 0.09; 2" = 0.16; 2 - 1/2" = 0.26; 3" = 0.37; 3 - 1/2" = 0.50; 4" = 0.65; 6" = 1.47

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

ARCADIS

WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00014

Site Location: Vicksburg, Mississippi Date: 2/1/2007

Site/Well No.: SW-05 (020107) Replicate No.: NA Code No.: NA

Weather: Overcast, low 40's, light rain Sampling Time: Begin 1540 End 1545

Evacuation Data

Measuring Point	NA
MP Elevation (ft)	NA
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	NA
Depth To Water (ft bmp)	NA
Water Level Elevation (ft)	NA
Water Column In Well (ft)	NA
Casing Diameter/Type	NA
Gallons In Well	NA
Gallons Pumped/Bailed Prior To Sampling	NA
Sample Pump Intake Setting (ft bmp)	NA
Purge Time	Begin: NA End NA
Pumping Rate (gpm)	NA
Evacuation Method	NA

Field Parameters

Color	tan
Odor	none
Appearance	cloudy
pH (s.u.)	6.92
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	210.7
Turbidity (NTU)	50.21
Temperature (°C (°F)	45.5
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	3 quart pyrex bowl
Remarks	

Constituents Sampled	Container Description	Number	Preservative
VOCs	40 mL glass vial	3	HCl, 4°C
SVOCs	1 liter amber glass	3	4°C
Pesticides	1 liter amber glass	2	4°C
Herbicides	1 liter amber glass	2	4°C
Dissolved Metals	250 mL HDPE	1	4°C
Total Metals	250 mL HDPE	1	HNO3, 4°C
Fluoride	250 mL HDPE	1	4°C
BOD	250 mL HDPE	1	4°C
NH3, COD, NO3, T-Phosphorus,	250 mL HDPE	1	H2SO4, 4°C
CL, SO, TDS, TSS, pH	250 mL HDPE	1	4°C

Sampling Personnel: G. Cook/J. Trahan/C. Fontenot

Well Casing Volumes

Gal./Ft. 1" = 0.04; 1 - 1/2" = 0.09; 2 - 1/2" = 0.26; 3 - 1/2" = 0.50; 6" = 1.47; 1 - 1/4" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

ARCADIS

WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00014

Site Location: Vicksburg, Mississippi Date: 2/1/2007

Site/Well No.: SW-06 (020107) Replicate No.: NA Code No.: NA

Weather: Overcast, low 40's, light rain Sampling Time: Begin 1600 End 1620

Evacuation Data

Measuring Point	NA
MP Elevation (ft)	NA
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	NA
Depth To Water (ft bmp)	NA
Water Level Elevation (ft)	NA
Water Column In Well (ft)	NA
Casing Diameter/Type	NA
Gallons In Well	NA
Gallons Pumped/Bailed Prior To Sampling	NA
Sample Pump Intake Setting (ft bmp)	NA
Purge Time	Begin: NA End NA
Pumping Rate (gpm)	NA
Evacuation Method	NA

Field Parameters

Color	clear
Odor	none
Appearance	clear
pH (s.u.)	6.85
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	209.9
Turbidity (NTU)	26.49
Temperature (°C/(°F)	46.3
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	3 quart pyrex bowl
Remarks	

Constituents Sampled	Container Description	Number	Preservative
VOCs	40 mL glass vial	3	HCl, 4°C
SVOCs	1 liter amber glass	3	4°C
Pesticides	1 liter amber glass	2	4°C
Herbicides	1 liter amber glass	2	4°C
Dissolved Metals	250 mL HDPE	1	4°C
Total Metals	250 mL HDPE	1	HNO3, 4°C
Fluoride	250 mL HDPE	1	4°C
BOD	250 mL HDPE	1	4°C
NH3, COD, NO3, T-Phosphorus,	250 mL HDPE	1	H2SO4, 4°C
CL, SO, TDS, TSS, pH	250 mL HDPE	1	4°C

Sampling Personnel: G. Cook/J. Trahan/C. Fontenot

Well Casing Volumes

Gal./Ft. 1" = 0.04; 1 - 1/4" = 0.06; 1 - 1/2" = 0.09; 2" = 0.16; 2 - 1/2" = 0.26; 3" = 0.37; 3 - 1/2" = 0.50; 4" = 0.65; 6" = 1.47

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

ARCADIS

WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00014

Site Location: Vicksburg, Mississippi Date: 2/1/2007

Site/Well No.: SW-07 (020107) Replicate No.: NA Code No.: NA

Weather: Overcast, low 40's, rainy Sampling Time: Begin 1615 End 1625

Evacuation Data

Measuring Point	NA
MP Elevation (ft)	NA
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	NA
Depth To Water (ft bmp)	NA
Water Level Elevation (ft)	NA
Water Column In Well (ft)	NA
Casing Diameter/Type	NA
Gallons In Well	NA
Gallons Pumped/Bailed Prior To Sampling	NA
Sample Pump Intake Setting (ft bmp)	NA
Purge Time	Begin: NA End NA
Pumping Rate (gpm)	NA
Evacuation Method	NA

Field Parameters

Color	yellow
Odor	none
Appearance	clear
pH (s.u.)	7.25
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	87.23
Turbidity (NTU)	15.92
Temperature (°C/(°F)	47.3
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	3 quart pyrex bowl
Remarks	

Constituents Sampled	Container Description	Number	Preservative
VOCs	40 mL glass vial	3	HCl, 4°C
SVOCs	1 liter amber glass	3	4°C
Pesticides	1 liter amber glass	2	4°C
Herbicides	1 liter amber glass	2	4°C
Dissolved Metals	250 mL HDPE	1	4°C
Total Metals	250 mL HDPE	1	HNO3, 4°C
Fluoride	250 mL HDPE	1	4°C
BOD	250 mL HDPE	1	4°C
NH3, COD, NO3, T-Phosphorus,	250 mL HDPE	1	H2SO4, 4°C
CL, SO, TDS, TSS, pH	250 mL HDPE	1	4°C

Sampling Personnel: G. Cook/J. Trahan/C. Fontenot

Well Casing Volumes

Gal./Ft. 1" = 0.04; 1 - 1/4" = 0.06; 1 - 1/2" = 0.09; 2" = 0.16; 2 - 1/2" = 0.26; 3" = 0.37; 3 - 1/2" = 0.50; 4" = 0.65; 6" = 1.47

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

ARCADIS

WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00014

Site Location: Vicksburg, Mississippi Date: 2/1/2007

Site/Well No.: SW-08 (020107) Replicate No.: NA Code No.: NA

Weather: Overcast, low 40's, rainy Sampling Time: Begin 1640 End 1645

Evacuation Data

Measuring Point	NA
MP Elevation (ft)	NA
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	NA
Depth To Water (ft bmp)	NA
Water Level Elevation (ft)	NA
Water Column In Well (ft)	NA
Casing Diameter/Type	NA
Gallons In Well	NA
Gallons Pumped/Bailed Prior To Sampling	NA
Sample Pump Intake Setting (ft bmp)	NA
Purge Time	Begin: NA End NA
Pumping Rate (gpm)	NA
Evacuation Method	NA

Field Parameters

Color	yellow
Odor	none
Appearance	clear
pH (s.u.)	7.01
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	5,780
Turbidity (NTU)	5.17
Temperature (°C (°F))	47.5
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	3 quart pyrex bowl
Remarks	

Constituents Sampled	Container Description	Number	Preservative
VOCs	40 mL glass vial	3	HCl, 4°C
SVOCs	1 liter amber glass	3	4°C
Pesticides	1 liter amber glass	2	4°C
Herbicides	1 liter amber glass	2	4°C
Dissolved Metals	250 mL HDPE	1	4°C
Total Metals	250 mL HDPE	1	HNO3, 4°C
Fluoride	250 mL HDPE	1	4°C
BOD	250 mL HDPE	1	4°C
NH3, COD, NO3, T-Phosphorus,	250 mL HDPE	1	H2SO4, 4°C
CL, SO, TDS, TSS, pH	250 mL HDPE	1	4°C

Sampling Personnel: G. Cook/J. Trahan/C. Fontenot

Well Casing Volumes Gal./Ft.: 1" = 0.04; 1 - 1/4" = 0.06; 1 - 1/2" = 0.09; 2" = 0.16; 2 - 1/2" = 0.26; 3" = 0.37; 3 - 1/2" = 0.50; 4" = 0.65; 6" = 1.47

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

ARCADIS

WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00014

Site Location: Vicksburg, Mississippi Date: 2/1/2007

Site/Well No.: SW-09 (020107) Replicate No.: NA Code No.: NA

Weather: Overcast, low 40's, light rain Sampling Time: Begin 1820 End 1825

Evacuation Data

Measuring Point	NA
MP Elevation (ft)	NA
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	NA
Depth To Water (ft bmp)	NA
Water Level Elevation (ft)	NA
Water Column In Well (ft)	NA
Casing Diameter/Type	NA
Gallons In Well	NA
Gallons Pumped/Bailed Prior To Sampling	NA
Sample Pump Intake Setting (ft bmp)	NA
Purge Time	Begin: NA End NA
Pumping Rate (gpm)	NA
Evacuation Method	NA

Field Parameters

Color	yellow
Odor	none
Appearance	slightly cloudy
pH (s.u.)	7.35
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	204.9
Turbidity (NTU)	83.40
Temperature (°C, (°F)	45.8
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	3 quart pyrex bowl
Remarks	

Constituents Sampled	Container Description	Number	Preservative
VOCs	40 mL glass vial	3	HCl, 4°C
SVOCs	1 liter amber glass	3	4°C
Pesticides	1 liter amber glass	2	4°C
Herbicides	1 liter amber glass	2	4°C
Dissolved Metals	250 mL HDPE	1	4°C
Total Metals	250 mL HDPE	1	HNO3, 4°C
Fluoride	250 mL HDPE	1	4°C
BOD	250 mL HDPE	1	4°C
NH3, COD, NO3, T-Phosphorus,	250 mL HDPE	1	H2SO4, 4°C
CL, SO, TDS, TSS, pH	250 mL HDPE	1	4°C

Sampling Personnel: G. Cook/J. Trahan/C. Fontenot

Well Casing Volumes

Gal./Ft. 1" = 0.04; 1 - 1/4" = 0.06; 1 - 1/2" = 0.09; 2" = 0.16; 2 - 1/2" = 0.26; 3" = 0.37; 3 - 1/2" = 0.50; 4" = 0.65; 6" = 1.47

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

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WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00014

Site Location: Vicksburg, Mississippi Date: 2/1/2007

Site/Well No.: SW-10 (020107) Replicate No.: NA Code No.: NA

Weather: Overcast, low 40's, rainy Sampling Time: Begin 1800 End 1805

Evacuation Data

Measuring Point	NA
MP Elevation (ft)	NA
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	NA
Depth To Water (ft bmp)	NA
Water Level Elevation (ft)	NA
Water Column In Well (ft)	NA
Casing Diameter/Type	NA
Gallons In Well	NA
Gallons Pumped/Bailed Prior To Sampling	NA
Sample Pump Intake Setting (ft bmp)	NA
Purge Time	Begin: NA End NA
Pumping Rate (gpm)	NA
Evacuation Method	NA

Field Parameters

Color	yellow
Odor	none
Appearance	clear
pH (s.u.)	7.62
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	1,270
Turbidity (NTU)	42.85
Temperature (°C, °F)	48.7
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	3 quart pyrex bowl
Remarks	

Constituents Sampled	Container Description	Number	Preservative
VOCs	40 mL glass vial	3	HCl, 4°C
SVOCs	1 liter amber glass	3	4°C
Pesticides	1 liter amber glass	2	4°C
Herbicides	1 liter amber glass	2	4°C
Dissolved Metals	250 mL HDPE	1	4°C
Total Metals	250 mL HDPE	1	HNO3, 4°C
Fluoride	250 mL HDPE	1	4°C
BOD	250 mL HDPE	1	4°C
NH3, COD, NO3, T-Phosphorus,	250 mL HDPE	1	H2SO4, 4°C
CL, SO, TDS, TSS, pH	250 mL HDPE	1	4°C

Sampling Personnel: G. Cook/J. Trahan/C. Fontenot

Well Casing Volumes

Gal./Ft. 1" = 0.04; 1 - 1/4" = 0.06; 1 - 1/2" = 0.09; 2" = 0.16; 2 - 1/2" = 0.26; 3" = 0.37; 3 - 1/2" = 0.50; 4" = 0.65; 6" = 1.47

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

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WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00014

Site Location: Vicksburg, Mississippi Date: 2/1/2007

Site/Well No.: SW-11 (020107) Replicate No.: NA Code No.: NA

Weather: Overcast, low 40's, rainy Sampling Time: Begin 1810 End 1815

Evacuation Data

Measuring Point	NA
MP Elevation (ft)	NA
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	NA
Depth To Water (ft bmp)	NA
Water Level Elevation (ft)	NA
Water Column In Well (ft)	NA
Casing Diameter/Type	NA
Gallons In Well	NA
Gallons Pumped/Bailed Prior To Sampling	NA
Sample Pump Intake Setting (ft bmp)	NA
Purge Time	Begin: NA End NA
Pumping Rate (gpm)	NA
Evacuation Method	NA

Field Parameters

Color	yellow
Odor	none
Appearance	slightly cloudy
pH (s.u.)	7.05
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	921
Turbidity (NTU)	52.44
Temperature (°C/°F)	46.3
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	3 quart pyrex bowl
Remarks	

Constituents Sampled	Container Description	Number	Preservative
VOCs	40 mL glass vial	3	HCl, 4°C
SVOCs	1 liter amber glass	3	4°C
Pesticides	1 liter amber glass	2	4°C
Herbicides	1 liter amber glass	2	4°C
Dissolved Metals	250 mL HDPE	1	4°C
Total Metals	250 mL HDPE	1	HNO3, 4°C
Fluoride	250 mL HDPE	1	4°C
BOD	250 mL HDPE	1	4°C
NH3, COD, NO3, T-Phosphorus,	250 mL HDPE	1	H2SO4, 4°C
CL, SO, TDS, TSS, pH	250 mL HDPE	1	4°C

Sampling Personnel: G. Cook/J. Trahan/C. Fontenot

Well Casing Volumes

Gal./Ft. 1" = 0.04; 1 - 1/4" = 0.06; 1 - 1/2" = 0.09; 2" = 0.16; 2 - 1/2" = 0.26; 3" = 0.37; 3 - 1/2" = 0.50; 4" = 0.65; 6" = 1.47

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

ARCADIS

WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00014

Site Location: Vicksburg, Mississippi Date: 2/1/2007

Site/Well No.: SW-12 (020107) Replicate No.: NA Code No.: NA

Weather: Overcast, low 40's Sampling Time: Begin 1845 End 1855

Evacuation Data

Measuring Point	NA
MP Elevation (ft)	NA
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	NA
Depth To Water (ft bmp)	NA
Water Level Elevation (ft)	NA
Water Column In Well (ft)	NA
Casing Diameter/Type	NA
Gallons In Well	NA
Gallons Pumped/Bailed Prior To Sampling	NA
Sample Pump Intake Setting (ft bmp)	NA
Purge Time	Begin: NA End NA
Pumping Rate (gpm)	NA
Evacuation Method	NA

Field Parameters

Color	brown
Odor	none
Appearance	cloudy
pH (s.u.)	7.66
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	175.3
Turbidity (NTU)	338.1
Temperature (°C/(°F)	46.4
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	3 quart pyrex bowl
Remarks	

Constituents Sampled	Container Description	Number	Preservative
VOCs	40 mL glass vial	3	HCl, 4°C
SVOCs	1 liter amber glass	3	4°C
Pesticides	1 liter amber glass	2	4°C
Herbicides	1 liter amber glass	2	4°C
Dissolved Metals	250 mL HDPE	1	4°C
Total Metals	250 mL HDPE	1	HNO3, 4°C
Fluoride	250 mL HDPE	1	4°C
BOD	250 mL HDPE	1	4°C
NH3, COD, NO3, T-Phosphorus,	250 mL HDPE	1	H2SO4, 4°C
CL, SO, TDS, TSS, pH	250 mL HDPE	1	4°C

Sampling Personnel: G. Cook/J. Trahan/C. Fontenot

Well Casing Volumes Gal./Ft.: 1" = 0.04; 1 - 1/4" = 0.06; 1 - 1/2" = 0.09; 2" = 0.16; 2 - 1/2" = 0.26; 3" = 0.37; 3 - 1/2" = 0.50; 4" = 0.65; 6" = 1.47

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

ARCADIS

WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00014

Site Location: Vicksburg, Mississippi Date: 2/1/2007

Site/Well No.: SW-13 (020107) Replicate No.: NA Code No.: NA

Weather: Cloudy, low 40's, light rain Sampling Time: Begin 1816 End 1826

Evacuation Data

Measuring Point	NA
MP Elevation (ft)	NA
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	NA
Depth To Water (ft bmp)	NA
Water Level Elevation (ft)	NA
Water Column In Well (ft)	NA
Casing Diameter/Type	NA
Gallons In Well	NA
Gallons Pumped/Bailed Prior To Sampling	NA
Sample Pump Intake Setting (ft bmp)	NA
Purge Time	Begin: NA End NA
Pumping Rate (gpm)	NA
Evacuation Method	NA

Field Parameters

Color	yellow
Odor	none
Appearance	clear
pH (s.u.)	7.22
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	2,715
Turbidity (NTU)	4.93
Temperature (°C/(°F))	47.0
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	3 quart pyrex bowl
Remarks	

Constituents Sampled	Container Description	Number	Preservative
VOCs	40 mL glass vial	3	HCl, 4°C
SVOCs	1 liter amber glass	3	4°C
Pesticides	1 liter amber glass	2	4°C
Herbicides	1 liter amber glass	2	4°C
Dissolved Metals	250 mL HDPE	1	4°C
Total Metals	250 mL HDPE	1	HNO3, 4°C
Fluoride	250 mL HDPE	1	4°C
BOD	250 mL HDPE	1	4°C
NH3, COD, NO3, T-Phosphorus,	250 mL HDPE	1	H2SO4, 4°C
CL, SO, TDS, TSS, pH	250 mL HDPE	1	4°C

Sampling Personnel: G. Cook/J. Trahan/C. Fontenot

Well Casing Volumes

Gal./Ft. 1" = 0.04; 1 - 1/4" = 0.06; 1 - 1/2" = 0.09; 2" = 0.16; 2 - 1/2" = 0.26; 3" = 0.37; 3 - 1/2" = 0.50; 4" = 0.65; 6" = 1.47

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millislemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

ARCADIS

WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00014

Site Location: Vicksburg, Mississippi Date: 2/1/2007

Site/Well No.: SW-14 (020107) Replicate No.: NA Code No.: NA

Weather: Cloudy, low 40's, light rain Sampling Time: Begin 1835 End 1840

Evacuation Data

Measuring Point	NA
MP Elevation (ft)	NA
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	NA
Depth To Water (ft bmp)	NA
Water Level Elevation (ft)	NA
Water Column In Well (ft)	NA
Casing Diameter/Type	NA
Gallons In Well	NA
Gallons Pumped/Bailed Prior To Sampling	NA
Sample Pump Intake Setting (ft bmp)	NA
Purge Time	Begin: NA End NA
Pumping Rate (gpm)	NA
Evacuation Method	NA

Field Parameters

Color	clear
Odor	none
Appearance	clear
pH (s.u.)	7.98
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	293
Turbidity (NTU)	2.60
Temperature (°C/(°F))	58.0
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	3 quart pyrex bowl
Remarks	

Constituents Sampled	Container Description	Number	Preservative
VOCs	40 mL glass vial	3	HCl, 4°C
SVOCs	1 liter amber glass	3	4°C
Pesticides	1 liter amber glass	2	4°C
Herbicides	1 liter amber glass	2	4°C
Dissolved Metals	250 mL HDPE	1	4°C
Total Metals	250 mL HDPE	1	HNO3, 4°C
Fluoride	250 mL HDPE	1	4°C
BOD	250 mL HDPE	1	4°C
NH3, COD, NO3, T-Phosphorus,	250 mL HDPE	1	H2SO4, 4°C
CL, SO, TDS, TSS, pH	250 mL HDPE	1	4°C

Sampling Personnel: G. Cook/J. Trahan/C. Fontenot

Well Casing Volumes Gal./Ft.: 1" = 0.04; 1 - 1/4" = 0.06; 1 - 1/2" = 0.09; 2" = 0.16; 2 - 1/2" = 0.26; 3" = 0.37; 3 - 1/2" = 0.50; 4" = 0.65; 6" = 1.47

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

ARCADIS

WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00014

Site Location: Vicksburg, Mississippi Date: 2/1/2007

Site/Well No.: SW-15 (020107) Replicate No.: NA Code No.: NA

Weather: Overcast, low 40's rainy Sampling Time: Begin 1730 End 1740

Evacuation Data

Measuring Point	NA
MP Elevation (ft)	NA
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	NA
Depth To Water (ft bmp)	NA
Water Level Elevation (ft)	NA
Water Column In Well (ft)	NA
Casing Diameter/Type	NA
Gallons In Well	NA
Gallons Pumped/Bailed Prior To Sampling	NA
Sample Pump Intake Setting (ft bmp)	NA
Purge Time	Begin: NA End NA
Pumping Rate (gpm)	NA
Evacuation Method	NA

Field Parameters

Color	tan
Odor	none
Appearance	slightly cloudy
pH (s.u.)	7.31
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	602.2
Turbidity (NTU)	130.6
Temperature (°C/(°F)	45.4
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	3 quart pyrex bowl
Remarks	

Constituents Sampled	Container Description	Number	Preservative
VOCs	40 mL glass vial	3	HCl, 4°C
SVOCs	1 liter amber glass	3	4°C
Pesticides	1 liter amber glass	2	4°C
Herbicides	1 liter amber glass	2	4°C
Dissolved Metals	250 mL HDPE	1	4°C
Total Metals	250 mL HDPE	1	HNO3, 4°C
Fluoride	250 mL HDPE	1	4°C
BOD	250 mL HDPE	1	4°C
NH3, COD, NO3, T-Phosphorus,	250 mL HDPE	1	H2SO4, 4°C
CL, SO, TDS, TSS, pH	250 mL HDPE	1	4°C

Sampling Personnel: G. Cook/J. Trahan/C. Fontenot

Well Casing Volumes

Gal./Ft. 1" = 0.04; 1 - 1/4" = 0.06; 1 - 1/2" = 0.09; 2" = 0.16; 2 - 1/2" = 0.26; 3" = 0.37; 3 - 1/2" = 0.50; 4" = 0.65; 6" = 1.47

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

ARCADIS

WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00014

Site Location: Vicksburg, Mississippi Date: 2/2/2007

Site/Well No.: SW-Discharge-Pond A (020207) Replicate No.: SW-DUP-02 (020207) Code No.: NA

Weather: Overcast, low 40's Sampling Time: Begin 0935 End: 0945

Evacuation Data

Measuring Point	NA
MP Elevation (ft)	NA
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	NA
Depth To Water (ft bmp)	NA
Water Level Elevation (ft)	NA
Water Column In Well (ft)	NA
Casing Diameter/Type	NA
Gallons In Well	NA
Gallons Pumped/Bailed Prior To Sampling	NA
Sample Pump Intake Setting (ft bmp)	NA
Purge Time	Begin: NA End: NA
Pumping Rate (gpm)	NA
Evacuation Method	NA

Field Parameters

Color	clear
Odor	none
Appearance	clear
pH (s.u.)	6.99
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	496.8
Turbidity (NTU)	5.00
Temperature (°C/(°F)	44.0
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	3 quart pyrex bowl
Remarks	

Constituents Sampled	Container Description	Number	Preservative
VOCs	40 mL glass vial	3	HCl, 4°C
SVOCs	1 liter amber glass	3	4°C
Pesticides	1 liter amber glass	2	4°C
Herbicides	1 liter amber glass	2	4°C
Dissolved Metals	250 mL HDPE	1	4°C
Total Metals	250 mL HDPE	1	HNO3, 4°C
Fluoride	250 mL HDPE	1	4°C
BOD	250 mL HDPE	1	4°C
NH3, COD, NO3, T-Phosphorus,	250 mL HDPE	1	H2SO4, 4°C
CL, SO, TDS, TSS, pH	250 mL HDPE	1	4°C

Sampling Personnel: G. Cook/J. Trahan/C. Fontenot

Well Casing Volumes Gal./Ft.: 1" = 0.04; 1 - 1/4" = 0.06; 1 - 1/2" = 0.09; 2" = 0.16; 2 - 1/2" = 0.26; 3" = 0.37; 3 - 1/2" = 0.50; 4" = 0.65; 6" = 1.47

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

ARCADIS

WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00014

Site Location: Vicksburg, Mississippi Date: 2/2/2007

Site/Well No.: SW-North Pond (020207) Replicate No.: NA Code No.: NA

Weather: Overcast, low 40's Sampling Time: Begin 0830 End 0835

Evacuation Data

Measuring Point	NA
MP Elevation (ft)	NA
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	NA
Depth To Water (ft bmp)	NA
Water Level Elevation (ft)	NA
Water Column In Well (ft)	NA
Casing Diameter/Type	NA
Gallons In Well	NA
Gallons Pumped/Bailed Prior To Sampling	NA
Sample Pump Intake Setting (ft bmp)	NA
Purge Time	Begin: NA End NA
Pumping Rate (gpm)	NA
Evacuation Method	NA

Field Parameters

Color	clear
Odor	none
Appearance	clear
pH (s.u.)	8.40
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	166.0
Turbidity (NTU)	8.21
Temperature (°C/°F)	43.3
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	3 quart pyrex bowl
Remarks	

Constituents Sampled	Container Description	Number	Preservative
VOCs	40 mL glass vial	3	HCl, 4°C
SVOCs	1 liter amber glass	3	4°C
Pesticides	1 liter amber glass	2	4°C
Herbicides	1 liter amber glass	2	4°C
Dissolved Metals	250 mL HDPE	1	4°C
Total Metals	250 mL HDPE	1	HNO3, 4°C
Fluoride	250 mL HDPE	1	4°C
BOD	250 mL HDPE	1	4°C
NH3, COD, NO3, T-Phosphorus,	250 mL HDPE	1	H2SO4, 4°C
CL, SO, TDS, TSS, pH	250 mL HDPE	1	4°C

Sampling Personnel: G. Cook/J. Trahan/C. Fontenot

Well Casing Volumes

Gal./Ft.: 1" = 0.04; 1 - 1/4" = 0.06; 1 - 1/2" = 0.09; 2" = 0.16; 2 - 1/2" = 0.26; 3" = 0.37; 3 - 1/2" = 0.50; 4" = 0.65; 6" = 1.47

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

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WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00014

Site Location: Vicksburg, Mississippi Date: 2/2/2007

Site/Well No.: SW-North Sump (020207) Replicate No.: NA Code No.: NA

Weather: Overcast, low 40's Sampling Time: Begin 0815 End 0825

Evacuation Data

Measuring Point	NA
MP Elevation (ft)	NA
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	NA
Depth To Water (ft bmp)	NA
Water Level Elevation (ft)	NA
Water Column In Well (ft)	NA
Casing Diameter/Type	NA
Gallons In Well	NA
Gallons Pumped/Bailed Prior To Sampling	NA
Sample Pump Intake Setting (ft bmp)	NA
Purge Time	Begin: NA End NA
Pumping Rate (gpm)	NA
Evacuation Method	NA

Field Parameters

Color	yellow
Odor	none
Appearance	cloudy
pH (s.u.)	9.04
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	674.9
Turbidity (NTU)	220.4
Temperature (°C/(°F)	42.8
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	3 quart pyrex bowl
Remarks	

Constituents Sampled	Container Description	Number	Preservative
VOCs	40 mL glass vial	3	HCl, 4°C
SVOCs	1 liter amber glass	3	4°C
Pesticides	1 liter amber glass	2	4°C
Herbicides	1 liter amber glass	2	4°C
Dissolved Metals	250 mL HDPE	1	4°C
Total Metals	250 mL HDPE	1	HNO3, 4°C
Fluoride	250 mL HDPE	1	4°C
BOD	250 mL HDPE	1	4°C
NH3, COD, NO3, T-Phosphorus,	250 mL HDPE	1	H2SO4, 4°C
CL, SO, TDS, TSS, pH	250 mL HDPE	1	4°C

Sampling Personnel: G. Cook/J. Trahan/C. Fontenot

Well Casing Volumes Gal./Ft.: 1" = 0.04; 1 - 1/4" = 0.06; 1 - 1/2" = 0.09; 2" = 0.16; 2 - 1/2" = 0.26; 3" = 0.37; 3 - 1/2" = 0.50; 4" = 0.65; 6" = 1.47

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

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WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00014

Site Location: Vicksburg, Mississippi Date: 2/2/2007

Site/Well No.: SW-Pond A (020207) Replicate No.: NA Code No.: NA

Weather: Overcast, low 40's Sampling Time: Begin 0925 End 0930

Evacuation Data

Measuring Point	NA
MP Elevation (ft)	NA
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	NA
Depth To Water (ft bmp)	NA
Water Level Elevation (ft)	NA
Water Column In Well (ft)	NA
Casing Diameter/Type	NA
Gallons In Well	NA
Gallons Pumped/Bailed Prior To Sampling	NA
Sample Pump Intake Setting (ft bmp)	NA
Purge Time	Begin: NA End NA
Pumping Rate (gpm)	NA
Evacuation Method	NA

Field Parameters

Color	clear
Odor	none
Appearance	clear
pH (s.u.)	7.11
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	489.9
Turbidity (NTU)	4.19
Temperature (°C/(°F))	45.7
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	3 quart pyrex bowl
Remarks	

Constituents Sampled	Container Description	Number	Preservative
VOCs	40 mL glass vial	3	HCl, 4°C
SVOCs	1 liter amber glass	3	4°C
Pesticides	1 liter amber glass	2	4°C
Herbicides	1 liter amber glass	2	4°C
Dissolved Metals	250 mL HDPE	1	4°C
Total Metals	250 mL HDPE	1	HNO3, 4°C
Fluoride	250 mL HDPE	1	4°C
BOD	250 mL HDPE	1	4°C
NH3, COD, NO3, T-Phosphorus,	250 mL HDPE	1	H2SO4, 4°C
CL, SO, TDS, TSS, pH	250 mL HDPE	1	4°C

Sampling Personnel: G. Cook/J. Trahan/C. Fontenot

Well Casing Volumes Gal./Ft.: 1" = 0.04; 1 - 1/4" = 0.06; 1 - 1/2" = 0.09; 2" = 0.16; 2 - 1/2" = 0.26; 3" = 0.37; 3 - 1/2" = 0.50; 4" = 0.65; 6" = 1.47

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

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WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00014

Site Location: Vicksburg, Mississippi Date: 2/2/2007

Site/Well No.: SW-Pond B (020207) Replicate No.: NA Code No.: NA

Weather: Cloudy, low 40's Sampling Time: Begin 0955 End 1010

Evacuation Data

Measuring Point	NA
MP Elevation (ft)	NA
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	NA
Depth To Water (ft bmp)	NA
Water Level Elevation (ft)	NA
Water Column In Well (ft)	NA
Casing Diameter/Type	NA
Gallons In Well	NA
Gallons Pumped/Bailed Prior To Sampling	NA
Sample Pump Intake Setting (ft bmp)	NA
Purge Time	Begin: NA End NA
Pumping Rate (gpm)	NA
Evacuation Method	NA

Field Parameters

Color	clear
Odor	none
Appearance	clear
pH (s.u.)	7.02
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	493.9
Turbidity (NTU)	4.39
Temperature (°C/(°F)	43.9
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	3 quart pyrex bowl
Remarks	

Constituents Sampled	Container Description	Number	Preservative
VOCs	40 mL glass vial	3	HCl, 4°C
SVOCs	1 liter amber glass	3	4°C
Pesticides	1 liter amber glass	2	4°C
Herbicides	1 liter amber glass	2	4°C
Dissolved Metals	250 mL HDPE	1	4°C
Total Metals	250 mL HDPE	1	HNO3, 4°C
Fluoride	250 mL HDPE	1	4°C
BOD	250 mL HDPE	1	4°C
NH3, COD, NO3, T-Phosphorus,	250 mL HDPE	1	H2SO4, 4°C
CL, SO, TDS, TSS, pH	250 mL HDPE	1	4°C

Sampling Personnel: G. Cook/J. Trahan/C. Fontenot

Well Casing Volumes Gal./Ft.: 1" = 0.04; 1 - 1/4" = 0.06; 1 - 1/2" = 0.09; 2" = 0.16; 2 - 1/2" = 0.26; 3" = 0.37; 3 - 1/2" = 0.50; 4" = 0.65; 6" = 1.47

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

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WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00014

Site Location: Vicksburg, Mississippi Date: 2/2/2007

Site/Well No.: SW-Pond C (020207) Replicate No.: NA Code No.: NA

Weather: Overcast, low 40's Sampling Time: Begin 0935 End 0945

Evacuation Data

Measuring Point	NA
MP Elevation (ft)	NA
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	NA
Depth To Water (ft bmp)	NA
Water Level Elevation (ft)	NA
Water Column In Well (ft)	NA
Casing Diameter/Type	NA
Gallons In Well	NA
Gallons Pumped/Bailed Prior To Sampling	NA
Sample Pump Intake Setting (ft bmp)	NA
Purge Time	Begin: NA End NA
Pumping Rate (gpm)	NA
Evacuation Method	NA

Field Parameters

Color	clear
Odor	none
Appearance	clear
pH (s.u.)	7.18
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	567.0
Turbidity (NTU)	6.53
Temperature (°C/(°F)	44.1
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	NA
Remarks	

Constituents Sampled	Container Description	Number	Preservative
VOCs	40 mL glass vial	3	HCl, 4°C
SVOCs	1 liter amber glass	3	4°C
Pesticides	1 liter amber glass	2	4°C
Herbicides	1 liter amber glass	2	4°C
Dissolved Metals	250 mL HDPE	1	4°C
Total Metals	250 mL HDPE	1	HNO3, 4°C
Fluoride	250 mL HDPE	1	4°C
BOD	250 mL HDPE	1	4°C
NH3, COD, NO3, T-Phosphorus,	250 mL HDPE	1	H2SO4, 4°C
CL, SO, TDS, TSS, pH	250 mL HDPE	1	4°C

Sampling Personnel: G. Cook/J. Trahan/C. Fontenot

Well Casing Volumes

Gal./Ft.: 1" = 0.04; 1 - 1/4" = 0.06; 1 - 1/2" = 0.09; 2" = 0.16; 2 - 1/2" = 0.26; 3" = 0.37; 3 - 1/2" = 0.50; 4" = 0.65; 6" = 1.47

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

ARCADIS

WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00014

Site Location: Vicksburg, Mississippi Date: 2/1/2007

Site/Well No.: SW-South Sump (020107) Replicate No.: NA Code No.: NA

Weather: Cloudy, low 40's, rainy Sampling Time: Begin 1510 End 1515

Evacuation Data

Measuring Point	NA
MP Elevation (ft)	NA
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	NA
Depth To Water (ft bmp)	NA
Water Level Elevation (ft)	NA
Water Column In Well (ft)	NA
Casing Diameter/Type	NA
Gallons In Well	NA
Gallons Pumped/Bailed Prior To Sampling	NA
Sample Pump Intake Setting (ft bmp)	NA
Purge Time	Begin: NA End NA
Pumping Rate (gpm)	NA
Evacuation Method	NA

Field Parameters

Color	light yellow
Odor	none
Appearance	clear
pH (s.u.)	7.91
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	298.4
Turbidity (NTU)	12.09
Temperature (°C/(°F))	46.1
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	3 quart pyrex bowl
Remarks	

Constituents Sampled	Container Description	Number	Preservative
VOCs	40 mL glass vial	3	HCl, 4°C
SVOCs	1 liter amber glass	3	4°C
Pesticides	1 liter amber glass	2	4°C
Herbicides	1 liter amber glass	2	4°C
Dissolved Metals	250 mL HDPE	1	4°C
Total Metals	250 mL HDPE	1	HNO3, 4°C
Fluoride	250 mL HDPE	1	4°C
BOD	250 mL HDPE	1	4°C
NH3, COD, NO3, T-Phosphorus,	250 mL HDPE	1	H2SO4, 4°C
CL, SO, TDS, TSS, pH	250 mL HDPE	1	4°C

Sampling Personnel: G. Cook/J. Trahan/C. Fontenot

Well Casing Volumes Gal./Ft.: 1" = 0.04; 1 - 1/4" = 0.06; 1 - 1/2" = 0.09; 2" = 0.16; 2 - 1/2" = 0.26; 3" = 0.37; 3 - 1/2" = 0.50; 4" = 0.65; 6" = 1.47

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

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WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00013

Site Location: Vicksburg, Mississippi Date: 5/4/2007

Site/Well No.: MW-4 Replicate No.: NA Code No.: NA

Weather: Partly cloudy, warm Sampling Time: Begin 0910 End 0915

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	112.00
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	21.96
Depth To Water (ft bmp)	4.57
Water Level Elevation (ft)	107.43
Water Column In Well (ft)	NA
Casing Diameter/Type	4-inch PVC
Gallons In Well	NA
Gallons Pumped/Bailed Prior To Sampling	2 liters
Sample Pump Intake Setting (ft bmp)	midscreen
Purge Time	Begin: 0850 End 0910
Pumping Rate (gpm)	100 mL/min
Evacuation Method	low flow

Field Parameters

Color	NR
Odor	NR
Appearance	NR
pH (s.u.)	NR
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	NR
Turbidity (NTU)	NR
Temperature (°C/ °F)	NR
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	low flow

Remarks

Constituents Sampled	Container Description	Number	Preservative
VOCs Methylene Chloride (8260)	40 mL vial	3	HCL

Sampling Personnel: J. Trahan/J. LaPrairie

Well Casing Volumes

Gal./Ft.					
	1" = 0.04	1 - 1/2" = 0.09	2 - 1/2" = 0.26	3 - 1/2" = 0.50	6" = 1.47
	1 - 1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

ARCADIS

WATER SAMPLING LOG

Project Mississippi Bluffs Industrial Park **Project No.** LA002656.0001.00013

Site Location Vicksburg, Mississippi **Date:** 5/3/2007

Site/Well No. MW-6 **Replicate No.** NA **Code No.** NA

Weather Cloudy, warm **Sampling Time:** Begin 0925 **End** 0930

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	100.70
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	26.83
Depth To Water (ft bmp)	14.71
Water Level Elevation (ft)	85.99
Water Column In Well (ft)	NA
Casing Diameter/Type	2-inch PVC
Gallons In Well	NA
Gallons Pumped/Bailed Prior To Sampling	2 liters
Sample Pump Intake Setting (ft bmp)	midscreen
Purge Time	Begin: 0905 End 0925
Pumping Rate (gpm)	100 mL/min
Evacuation Method	low flow

Field Parameters

Color	NR
Odor	NR
Appearance	NR
pH (s.u.)	NR
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	NR
Turbidity (NTU)	NR
Temperature (^{O}C/ ^{O}F)	NR
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	low flow
Remarks	

Constituents Sampled	Container Description	Number	Preservative
VOCs Chloroform (8260)	40 mL vial	3	HCL

Sampling Personnel J. Trahan/J. LaPrairie

Well Casing Volumes

Gal./Ft.				
1" = 0.04	1 - 1/2" = 0.09	2 - 1/2" = 0.26	3 - 1/2" = 0.50	6" = 1.47
1 - 1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
^{O}C/^{O}F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

ARCADIS

WATER SAMPLING LOG

Project	Mississippi Bluffs Industrial Park	**Project No.**	LA002656.0001.00013		
Site Location	Vicksburg, Mississippi			**Date:**	5/1/2007
Site/Well No.	TP-PZ-01	**Replicate No.**	NA	**Code No.**	NA
Weather	Partly cloudy, warm	**Sampling Time:**	Begin 0930	**End**	0950

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	117.36
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	58.96
Depth To Water (ft bmp)	8.66
Water Level Elevation (ft)	108.7
Water Column In Well (ft)	NA
Casing Diameter/Type	3/4-inch PVC
Gallons In Well	NA
Gallons Pumped/Bailed Prior To Sampling	NA
Sample Pump Intake Setting (ft bmp)	midscreen
Purge Time	Begin: NA . End NA
Pumping Rate (gpm)	grab
Evacuation Method	peristaltic pump

Field Parameters

Color	light gray
Odor	none
Appearance	cloudy
pH (s.u.)	6.28
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	890.1
Turbidity (NTU)	NA
Temperature (°C (°F))	67.6
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	peristaltic pump

Remarks
Recollected SVOA 5-30-07. Grab samples.

Constituents Sampled	Container Description	Number	Preservative
VOCs (8260)	40 mL vial	3	HCL
SVOCs (8270)	1 liter amber glass	3	4°C
Organochlorine Pesticides (8081)	1 liter amber glass	2	4°C
Organochlorine Herbicides(8151)	1 liter amber glass	2	4°C
Total Metals (6010) (6020)	250 mL plastic	1	HNO3
Dissolved Metals (6010) (6020)	250 mL plastic	1	4°C

Sampling Personnel J. Trahan/J. LaPrairie

Well Casing Volumes

Gal./Ft.				
1" = 0.04	1 - 1/2" = 0.09	2 - 1/2" = 0.26	3 - 1/2" = 0.50	6" = 1.47
1 - 1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

ARCADIS

WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00013

Site Location: Vicksburg, Mississippi Date: 5/1/2007

Site/Well No.: TP-PZ-02 Replicate No.: NA Code No.: NA

Weather: Partly cloudy, warm Sampling Time: Begin 1730 End 1800

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	108.85
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	44.38
Depth To Water (ft bmp)	8.92
Water Level Elevation (ft)	99.93
Water Column In Well (ft)	NA
Casing Diameter/Type	3/4-inch PVC
Gallons In Well	NA
Gallons Pumped/Bailed Prior To Sampling	NA
Sample Pump Intake Setting (ft bmp)	midscreen
Purge Time	Begin: NA End NA
Pumping Rate (gpm)	grab
Evacuation Method	peristaltic pump

Field Parameters

Color	light gray
Odor	none
Appearance	turbid
pH (s.u.)	7.21
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	793
Turbidity (NTU)	704
Temperature (°C/(°F)	71.3
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	peristaltic pump

Remarks

Recollected SVOA 5-30-07.

Constituents Sampled	Container Description	Number	Preservative
VOCs (8260)	40 mL vial	3	HCL
SVOCs (8270)	1 liter amber glass	3	4°C
Organochlorine Pesticides (8081)	1 liter amber glass	2	4°C
Organochlorine Herbicides(8151)	1 liter amber glass	2	4°C
Total Metals (6010) (6020)	250 mL plastic	1	HNO3
Dissolved Metals (6010) (6020)	250 mL plastic	1	4°C

Sampling Personnel J. Trahan/J. LaPrairie

Well Casing Volumes

Gal./Ft.					
	1" = 0.04	1 - 1/2" = 0.09	2 - 1/2" = 0.26	3 - 1/2" = 0.50	6" = 1.47
	1 - 1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

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WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00013

Site Location: Vicksburg, Mississippi Date: 5/1/2007

Site/Well No.: TP-PZ-03 Replicate No.: NA Code No.: NA

Weather: Partly cloudy, warm Sampling Time: Begin 0900 End 1010

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	125.46
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	39.61
Depth To Water (ft bmp)	14.86
Water Level Elevation (ft)	110.6
Water Column In Well (ft)	NA
Casing Diameter/Type	3/4-inch PVC
Gallons In Well	NA
Gallons Pumped/Bailed Prior To Sampling	NA
Sample Pump Intake Setting (ft bmp)	midscreen
Purge Time	Begin: NA End NA
Pumping Rate (gpm)	grab
Evacuation Method	peristaltic pump

Field Parameters

Color	orange brown
Odor	none
Appearance	turbid
pH (s.u.)	7.03
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	7,414
Turbidity (NTU)	494.8
Temperature (°C/°F)	71.3
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	peristaltic pump

Remarks

Recollected SVOA 5-30-07.

Constituents Sampled	Container Description	Number	Preservative
VOCs (8260)	40 mL vial	3	HCL
SVOCs (8270)	1 liter amber glass	3	4°C
Organochlorine Pesticides (8081)	1 liter amber glass	2	4°C
Organochlorine Herbicides(8151)	1 liter amber glass	2	4°C
Total Metals (6010) (6020)	250 mL plastic	1	HNO3
Dissolved Metals (6010) (6020)	250 mL plastic	1	4°C

Sampling Personnel: J. Trahan/J. LaPrairie

Well Casing Volumes

Gal./Ft. 1" = 0.04; 1 - 1/4" = 0.06; 1 - 1/2" = 0.09; 2" = 0.16; 2 - 1/2" = 0.26; 3" = 0.37; 3 - 1/2" = 0.50; 4" = 0.65; 6" = 1.47

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

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WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00013

Site Location: Vicksburg, Mississippi Date: 5/3/2007

Site/Well No.: TP-PZ-04 Replicate No.: NA Code No.: NA

Weather: Partly cloudy, warm Sampling Time: Begin 1400 End 1430

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	101.68
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	30.09
Depth To Water (ft bmp)	11.2
Water Level Elevation (ft)	90.48
Water Column In Well (ft)	NA
Casing Diameter/Type	3/4-inch PVC
Gallons In Well	NA
Gallons Pumped/Bailed Prior To Sampling	NA
Sample Pump Intake Setting (ft bmp)	midscreen
Purge Time	Begin: NA End NA
Pumping Rate (gpm)	grab
Evacuation Method	peristaltic pump

Field Parameters

Color	tan
Odor	none
Appearance	cloudy
pH (s.u.)	7.11
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	1,010
Turbidity (NTU)	88.4
Temperature (°C/°F)	69.1
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	peristaltic pump

Remarks
Recollected SVOA 5-30-07.

Constituents Sampled	Container Description	Number	Preservative
VOCs (8260)	40 mL vial	3	HCL
SVOCs (8270)	1 liter amber glass	3	4°C
Organochlorine Pesticides (8081)	1 liter amber glass	2	4°C
Organochlorine Herbicides(8151)	1 liter amber glass	2	4°C
Total Metals (6010) (6020)	250 mL plastic	1	HNO3
Dissolved Metals (6010) (6020)	250 mL plastic	1	4°C

Sampling Personnel: J. Trahan/J. LaPrairie

Well Casing Volumes

Gal./Ft. 1" = 0.04; 1 - 1/4" = 0.06; 1 - 1/2" = 0.09; 2" = 0.16; 2 - 1/2" = 0.26; 3" = 0.37; 3 - 1/2" = 0.50; 4" = 0.65; 6" = 1.47

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

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WATER SAMPLING LOG

Project: Mississippi Bluffs Industrial Park Project No.: LA002656.0001.00013

Site Location: Vicksburg, Mississippi Date: 5/1/2007

Site/Well No.: TP-PZ-05 Replicate No.: NA Code No.: NA

Weather: Partly cloudy, warm Sampling Time: Begin 1315 End 1430

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	130.78
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	44.42
Depth To Water (ft bmp)	21.6
Water Level Elevation (ft)	109.18
Water Column In Well (ft)	NA
Casing Diameter/Type	3/4-inch PVC
Gallons in Well	NA
Gallons Pumped/Bailed Prior To Sampling	NA
Sample Pump Intake Setting (ft bmp)	midscreen
Purge Time	Begin: NA End NA
Pumping Rate (gpm)	grab
Evacuation Method	peristaltic pump

Field Parameters

Color	gray
Odor	none
Appearance	turbid
pH (s.u.)	7.41
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	1,609
Turbidity (NTU)	1,100+
Temperature (°C/°F)	81.7
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	peristaltic pump

Remarks

Recollected SVOA 5-30-07.

Constituents Sampled	Container Description	Number	Preservative
VOCs (8260)	40 mL vial	3	HCL
SVOCs (8270)	1 liter amber glass	3	4°C
Organochlorine Pesticides (8081)	1 liter amber glass	2	4°C
Organochlorine Herbicides(8151)	1 liter amber glass	2	4°C
Total Metals (6010) (6020)	250 mL plastic	1	HNO3
Dissolved Metals (6010) (6020)	250 mL plastic	1	4°C

Sampling Personnel: J. Trahan/J. LaPrairie

Well Casing Volumes

Gal./Ft. 1" = 0.04; 1 - 1/4" = 0.06; 1 - 1/2" = 0.09; 2" = 0.16; 2 - 1/2" = 0.26; 3" = 0.37; 3 - 1/2" = 0.50; 4" = 0.65; 6" = 1.47

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

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WATER SAMPLING LOG

Project Mississippi Bluffs Industrial Park **Project No.** LA002656.0001.00013

Site Location Vicksburg, Mississippi **Date:** 5/1/2007

Site/Well No. TP-PZ-06 **Replicate No.** NA **Code No.** NA

Weather Partly cloudy, warm **Sampling Time:** Begin 1500 **End** 1530

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	101.89
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	29.26
Depth To Water (ft bmp)	2.60
Water Level Elevation (ft)	99.29
Water Column In Well (ft)	NA
Casing Diameter/Type	3/4-inch PVC
Gallons In Well	NA
Gallons Pumped/Bailed Prior To Sampling	NA
Sample Pump Intake Setting (ft bmp)	midscreen
Purge Time	Begin: NA End NA
Pumping Rate (gpm)	grab
Evacuation Method	peristaltic pump

Field Parameters

Color	yellow
Odor	none
Appearance	cloudy
pH (s.u.)	6.86
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	2,660
Turbidity (NTU)	418.7
Temperature (°C/°F)	70.1
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	peristaltic pump

Remarks
Recollected SVOA 5-30-07.

Constituents Sampled	Container Description	Number	Preservative
VOCs (8260)	40 mL vial	3	HCL
SVOCs (8270)	1 liter amber glass	3	4°C
Organochlorine Pesticides (8081)	1 liter amber glass	2	4°C
Organochlorine Herbicides(8151)	1 liter amber glass	2	4°C
Total Metals (6010) (6020)	250 mL plastic	1	HNO3
Dissolved Metals (6010) (6020)	250 mL plastic	1	4°C

Sampling Personnel J. Trahan/J. LaPrairie

Well Casing Volumes

Gal./Ft.				
1" = 0.04	1 - 1/2" = 0.09	2 - 1/2" = 0.26	3 - 1/2" = 0.50	6" = 1.47
1 - 1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

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WATER SAMPLING LOG

Project Mississippi Bluffs Industrial Park **Project No.** LA002656.0001.00013

Site Location Vicksburg, Mississippi **Date:** 5/1/2007

Site/Well No. TP-PZ-07 **Replicate No.** NA **Code No.** NA

Weather Partly cloudy, warm **Sampling Time:** Begin 1620 **End** 1700

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	108.42
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	29.11
Depth To Water (ft bmp)	9.60
Water Level Elevation (ft)	98.82
Water Column In Well (ft)	NA
Casing Diameter/Type	3/4-inch PVC
Gallons In Well	NA
Gallons Pumped/Bailed Prior To Sampling	NA
Sample Pump Intake Setting (ft bmp)	midscreen
Purge Time	Begin: NA End NA
Pumping Rate (gpm)	grab
Evacuation Method	peristaltic pump

Field Parameters

Color	tan/brown
Odor	none
Appearance	turbid
pH (s.u.)	7.23
Conductivity (ms/cm)	NA
Conductivity (µmhos/cm)	1,314
Turbidity (NTU)	41.8
Temperature (°C/(°F))	74.2
Dissolved Oxygen (mg/L)	NA
ORP (mV)	NA
Sampling Method	peristaltic pump

Remarks
Recollected SVOA 5-30-07.

Constituents Sampled	Container Description	Number	Preservative
VOCs (8260)	40 mL vial	3	HCL
SVOCs (8270)	1 liter amber glass	3	4°C
Organochlorine Pesticides (8081)	1 liter amber glass	2	4°C
Organochlorine Herbicides(8151)	1 liter amber glass	2	4°C
Total Metals (6010) (6020)	250 mL plastic	1	HNO3
Dissolved Metals (6010) (6020)	250 mL plastic	1	4°C

Sampling Personnel J. Trahan/J. LaPrairie

Well Casing Volumes

Gal./Ft.					
	1" = 0.04	1 - 1/2" = 0.09	2 - 1/2" = 0.26	3 - 1/2" = 0.50	6" = 1.47
	1 - 1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

bmp	Below measuring point	ml	Milliliter	NTU	Nephelometric Turbidity Units
°C/°F	Degrees Celsius/Fahrenheit	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	NA	Not Applicable	µmhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds
ppt	Parts per thousand	CS	Carbon steel	SS	Stainless steel

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Appendix C

Slug Test Data

Appendix C - Slug Tests Analysis Results using AQTESOLV – Vicksburg, MS

MW2

Data Set: C:\Projects\Vicksburg\Flow\SlugTest-AQT\slug tests for craig\mw-2.aqt

AQUIFER DATA

Saturated Thickness: 48.15 ft
Anisotropy Ratio (Kz/Kr): 0.1

SOLUTION

Slug Test
Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
ln(Re/rw): 2.97

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.006843	ft/day
y0	1.031	ft

K = 2.414E-6 cm/sec
T = K*b = 0.3295 ft²/day (0.003543 sq. cm/sec)

MW5

Data Set: C:\Projects\Vicksburg\Flow\SlugTest-AQT\slug tests for craig\mw-5.aqt

AQUIFER DATA

Saturated Thickness: 20. ft
Anisotropy Ratio (Kz/Kr): 0.1

SOLUTION

Slug Test
Aquifer Model: Confined
Solution Method: Bouwer-Rice
ln(Re/rw): 2.549

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.3739	ft/day
y0	0.885	ft

K = 0.0001319 cm/sec
T = K*b = 7.477 ft²/day (0.0804 sq. cm/sec)

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	Std. Error	Approx. C.I.	t-Ratio	
K	0.4333	0.00613	+/- 0.01216	70.68	ft/day
y0	0.9986	0.004881	+/- 0.009685	204.6	ft

C.I. is approximate 95% confidence interval for parameter
t-ratio = estimate/std. error
No estimation window

K = 0.0001528 cm/sec
T = K*b = 8.665 ft²/day (0.09318 sq. cm/sec)

Parameter Correlations

	K	y0
K	1.00	0.70
y0	0.70	1.00

Residual Statistics

for weighted residuals

Sum of Squares .... 0.04881 ft^2
Variance ..... 0.000493 ft^2
Std. Deviation..... 0.0222 ft
Mean ..... 0.004118 ft
No. of Residuals 101
No. of Estimates 2

MW6

Data Set: C:\Projects\Vicksburg\Flow\SlugTest-AQT\slug tests for craig\mw-6.aqt

AQUIFER DATA

Saturated Thickness: 21. ft
Anisotropy Ratio (Kz/Kr): 0.1

SOLUTION

Slug Test
Aquifer Model: Confined
Solution Method: Hvorslev
Log Factor: 0.4404

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.4548	ft/day
y0	0.9754	ft

K = 0.0001605 cm/sec
T = K*b = 9.551 ft²/day (0.1027 sq. cm/sec)

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	Std. Error	Approx. C.I.	t-Ratio	
K	0.4548	0.003688	+/- 0.007351	123.3	ft/day
y0	0.9754	0.002704	+/- 0.005389	360.7	ft

C.I. is approximate 95% confidence interval for parameter
t-ratio = estimate/std. error
No estimation window

K = 0.0001605 cm/sec
T = K*b = 9.551 ft²/day (0.1027 sq. cm/sec)

Parameter Correlations

	K	y0
K	1.00	0.60
y0	0.60	1.00

Residual Statistics

for weighted residuals

Sum of Squares .... 0.01136 ft^2
Variance ..... 0.0001577 ft^2
Std. Deviation..... 0.01256 ft
Mean ..... -0.0002384 ft
No. of Residuals 74
No. of Estimates 2

MW11

Data Set: C:\Projects\Vicksburg\Flow\SlugTest-AQT\slug tests for craig\mw-11.aqt

AQUIFER DATA

Saturated Thickness: 43.2 ft
Anisotropy Ratio (Kz/Kr): 0.1

SOLUTION

Slug Test
Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
ln(Re/rw): 3.351

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.1044	ft/day
y0	1.001	ft

K = 3.681E-5 cm/sec
T = K*b = 4.508 ft²/day (0.04848 sq. cm/sec)

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	Std. Error	Approx. C.I.	t-Ratio	
K	0.1044	0.0002223	+/- 0.0004396	469.4	ft/day
y0	1.001	0.0005038	+/- 0.0009959	1987.8	ft

C.I. is approximate 95% confidence interval for parameter
t-ratio = estimate/std. error
No estimation window

K = 3.681E-5 cm/sec
T = K*b = 4.508 ft²/day (0.04848 sq. cm/sec)

Parameter Correlations

	K	y0
K	1.00	0.48
y0	0.48	1.00

Residual Statistics

for weighted residuals

Sum of Squares .... 0.002165 ft^2
Variance ..... 1.525E-5 ft^2
Std. Deviation..... 0.003905 ft
Mean ..... -0.0007058 ft
No. of Residuals 144
No. of Estimates 2

PZ21A

Data Set: C:\Projects\Vicksburg\Flow\SlugTest-AQT\slug tests for craig\mw-21A.aqt

AQUIFER DATA

Saturated Thickness: 50.5 ft
Anisotropy Ratio (Kz/Kr): 0.1

SOLUTION

Slug Test
Aquifer Model: Confined
Solution Method: Bouwer-Rice
ln(Re/rw): 4.524

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	1.274	ft/day
y0	1.158	ft

K = 0.0004493 cm/sec
T = K*b = 64.32 ft²/day (0.6916 sq. cm/sec)

PZ24B

Data Set: C:\Projects\Vicksburg\Flow\SlugTest-AQT\slug tests for craig\mw-24B.aqt

AQUIFER DATA

Saturated Thickness: 47. ft
Anisotropy Ratio (Kz/Kr): 0.1

SOLUTION

Slug Test
Aquifer Model: Confined
Solution Method: Bouwer-Rice
ln(Re/rw): 3.471

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.263	ft/day
y0	0.8984	ft

K = 9.277E-5 cm/sec
T = K*b = 12.36 ft²/day (0.1329 sq. cm/sec)

PZ26A

Data Set: C:\Projects\Vicksburg\Flow\SlugTest-AQT\slug tests for craig\mw-26A.aqt

AQUIFER DATA

Saturated Thickness: 41.5 ft
Anisotropy Ratio (Kz/Kr): 0.1

SOLUTION

Slug Test
Aquifer Model: Confined
Solution Method: Bouwer-Rice
ln(Re/rw): 3.078

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.03191	ft/day
y0	0.8355	ft

K = 1.126E-5 cm/sec
T = K*b = 1.324 ft²/day (0.01424 sq. cm/sec)

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Appendix D

Ecological Checklist

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY
BROWNFIELD VOLUNTARY CLEANUP PROGRAM
ECOLOGICAL CHECKLIST

Section 1 - Facility Information

1. Name of Facility: **Former Vicksburg Chemical Company**

2. Location of Facility: **4280 Rifle Range Road, Vicksburg, Mississippi**

   County: **Warren County**

3. Mailing Address:

4. Type of Facility: **Former Pesticide and Herbicide Manufacturer**

5. Describe land use at and in the vicinity of the release site.

   The property on which the former Vicksburg Chemical Company (the Site) now exists was developed during the 1950s and 1960s for chemical manufacturing operations. The majority of the site is inactive and is referred to as the South Plant area, which is the focus of the Site Characterization. The northern portion of the site is operated by Harcros Chemicals, Inc., as a distribution center for chemical products.

6. Attach a USGS topographic map of the facility and aerial and other photographs of the release site and surrounding areas.

   See Figure 1 (Site Location Map) and Figure 4 (Proposed Cap Limits) of the Site Characterization Report, the attached Figure D-1 (Site Aerial Photograph), and Figure 2 (Proposed Sample Locations) of the U.S. Environmental Protection Agency (USEPA) (2005) Site-Specific Sampling Plan (also attached).

Section 2 - Surrounding Land Use Information

1. Describe land use adjacent to the facility.

   Commercial, public (wastewater treatment plant), and some residential.

2. Provide the following information regarding the nearest water body:

   Name of surface water body: **Stouts, Hennesseys, and Hatcher bayous**

   Type of surface water body (pond, lake, river etc: **Bayous**

3. Do any potentially sensitive environmental areas exist adjacent to or in proximity to the site, e.g., Federal and State parks, National and State Monuments, wetlands, etc.?

   Based on National Wetlands Inventory (1988) data and the U.S. Fish and Wildlife Service's Classification of Wetlands and Deepwater Habitats in the United States (Cowardin et al. 1979), a palustrine open-water (POW) wetland type occurs within the

Site. These wetlands are often shallow beaver or manmade ponds, but typically do not contain emergent wetland vegetation. In the South Plant area, these constructed ponds have a geotextile liner and are utilized for storm water management. Stouts, Hennesseys, and Hatcher bayous would be considered open water habitats. Upland areas comprise the other type of habitats present at the Site. The wetlands present are shown on Figure D-1 (Site Aerial Photograph).

Section 3 - Release Information

1. Nature of release. **Historic activities**

2. Location of the release (within the facility)

   Various locations in the former process areas of the South Plant.

3. Location of the release with respect to the facility property boundaries:

   The location of the release is primarily from process areas which are located near the approximate center of the property. The nearest release point to an off-site boundary is approximately 75 feet from Stouts Bayou.

4. Chemicals of Concern (COC) known or suspected to have been released:

   Arsenic, carbon tetrachloride, chloroform, dinoseb, and toxaphene

5. Indicate which media are known or suspected to be impacted and if sampling data are available:

☒	Soil 0-6 feet bgs	yes	☒	no	☐
☒	groundwater	yes	☒	no	☐
☒	surface water/sediment	yes	☒	no	☐

6. Has migration occurred outside the facility property boundaries? yes ☒ no ☐

   If yes, describe the designated use of the land impacted:

   Potential impacts to the adjacent surface water bodies may have originated from on-site releases. However, impacts do not appear to be indicative of a significant release and are either below USEPA ecological screening levels or below background levels. Proposed soil and groundwater remediation will mitigate potential future releases.

Section 4 - Criteria for Further Assessment

If the Area of Impact (AOI) meets all of the criteria presented below, then typically no further ecological evaluation shall be required. If the AOI does not meet all of the criteria, then a screening level ecological risk shall be conducted. The Submitter should make the initial decision regarding whether or not a screening level ecological risk assessment is warranted based on compliance of

the AOI with criteria listed below. After review of the ecological checklist and other available site information, the Mississippi Department of Environmental Quality will make a final determination on the need for a screening level ecological risk assessment. If site conditions at the AOI change such that one or more of the criteria are not met, then a screening level ecological risk assessment shall be conducted.

The criteria for exclusion from further ecological assessment include:

4a. The area of impacted soil is approximately 1 acre or less in size;

The area of impacted soil is greater than 1 acre in size. However, the South Plant area is a developed portion of the property which contains the former chemical manufacturing process areas. The property setting of the South Plant area would be characterized as a developed, open area with minimal areas that are grass- and weed-covered. This type of area would be considered as disturbed ground and would not provide potential habitat for terrestrial ecological receptors. Because of prior development for industrial use, the property would not be considered valuable habitat. Low plant species diversity (grass and weeds) would not provide an optimum foraging area, nor provide optimum cover/shelter for most wildlife species. Ecological communities, both plants and animals, would not be diverse when compared to undisturbed habitats located in the vicinity of the property because of the alterations to the land resulting from development and operation of a pesticide manufacturing facility. Although valuable ecological habitat may have once existed at the property, it has been altered, impacted, or reduced to a degree such that it is no longer conducive to utilization by terrestrial ecological receptors. Additionally, as shown on Figure 4 (Proposed Cap Limits), the areas of impacted soil in the South Plant will be covered by an engineered cap which will prevent any ecological exposure to soil that might rarely occur from transient species. A closed landfill area is also located within the South Plant. It is not likely for terrestrial wildlife species to come into contact with impacted soil of the landfill because an approximately 2-foot clay cap will cover the surface of the landfill.

4b. There is no current (or potential) release (via runoff or groundwater discharge) of COCs from the AOI to a surface water body;

Stouts Bayou is the nearest surface water body and comprises the major aquatic habitat within the south/southeast portion of the property. Stouts Bayou joins Hatcher Bayou and forms Hennesseys Bayou, which eventually flows to the Mississippi River (Figure 1). From March 28, 2005, to April 2, 2005, USEPA's Superfund Technical Assessment and Response Team (START) collected surface water and sediment samples from Stouts Bayou, Hatcher Bayou, Hennesseys Bayou, and unnamed tributaries in the vicinity of the Site. ARCADIS was provided with a copy of the March 21, 2005, "Site Specific Sampling Plan" and laboratory data (included at the end of this appendix). ARCADIS has used this data under the assumption that it is appropriate, valid, and usable for characterization of these water bodies. To determine if concentrations of COCs detected in surface water or sediment constitute a current release and to determine the potential for any ecological effects, an evaluation of surface water and sediment sampling results was conducted using conservative USEPA screening levels and background comparisons. Based on a comparison of the USEPA (2005) surface water results with USEPA freshwater screening levels, only one detection (3.6J micrograms per liter [µg/L]) of dinoseb exceeded the screening level of 0.48 µg/L (Table D-1). However, the exceedance occurred at the upstream, background location (VC-SW-01). No concentrations of dinoseb exceeded

USEPA screening levels at any location adjacent to the Site. Concentrations of all other constituents detected in surface water were less than USEPA freshwater screening levels (Table D-1).

USEPA (2005) sediment results indicated that concentrations of 4,4'-DDT (4.2J µg/kg) and 4,4'-DDE (3.7J µg/kg) exceeded USEPA sediment screening levels at background location VC-SD-01 (Table D-2). Similar concentrations of 4,4'-DDT (4.2J µg/kg) and 4,4'-DDE (1.9J µg/kg) were also observed at downstream sample location VC-SD-06 . Dinoseb was detected only once in sediments and at a low concentration (0.023 JN µg/kg at VC-SD-05), well below USEPA sediment screening levels (Table D-2). An isolated detection of a PCB (Aroclor 1254) was reported at location VC-SD-08 at a concentration of 140J µg/kg, which exceeded the USEPA sediment screening level of 21.6 µg/kg. However, PCBs are not site-related and the detection is likely indicative of the ubiquitous nature of this class of compound. Although the highest concentration of lead (32 J milligrams per kilogram [mg/kg]) occurred at downstream sample location VC-SD-06, this concentration was comparable to the 31J mg/kg detected in background location VC-SD-01. Total mercury concentrations of 0.19 mg/kg at VC-SD-06 and 0.14 mg/kg at VC-SD-08 were slightly higher than the USEPA sediment screening level of 0.13 mg/kg. These concentrations of mercury are likely representative of higher mercury concentrations in the loess geologic unit and are associated with agricultural use in the Mississippi Delta region (MDEQ 2005. Solid-phase geochemical survey of the State of Mississippi; an atlas highlighting the distribution of As, Cu, Hg, Pb, Se, and Zn in stream sediments and soils.). Similarly, the arsenic concentration of 8 mg/kg at VC-SD-08 slightly exceeded the USEPA sediment screening level of 7.24 mg/kg but is likely representative of higher arsenic concentrations in loess agricultural belt deposits of the Delta region.

Results of the groundwater modeling conducted for the Site Characterization indicate that future potential releases to Stouts Bayou are possible. However, proposed groundwater remediation will mitigate any future groundwater to surface water discharge.

4c. Recreational species, commercial species, threatened or endangered species, and/or their habitats are not currently being exposed, or expected to be exposed, to COCs present at or migrating from the AOI; and

Based on site observations, no recreational species, commercial species, threatened or endangered species, and/or their habitats are currently being exposed, or would be expected to be exposed, to COC present at or migrating from the AOI. Soil exposure pathways are not expected to be significant due to the minimal availability of on-site habitat. The area is heavily industrialized and consequently of low habitat value. Therefore, recreational species, commercial species, and threatened or endangered species would not be attracted to the terrestrial areas of the South Plant.

Stouts Bayou would not be considered a major fishing area because it is shallow and ephemeral in nature, and it does not support an abundance of large fish although young (small) individuals of larger species may be present. Results of the screening assessment of USEPA (2005) surface water and sediment data do not indicate a significant release and concentrations detected are either below USEPA ecological screening levels or below background levels. Additionally, no site-related COCs were identified in the surface water and sediment samples that would be considered to be bioaccumulative constituents. Therefore, significant food chain exposure to recreational species, commercial species, and threatened or endangered species would not be expected.

4d. There are no obvious impacts to ecological receptors or their habitats.

Based on qualitative observations during field activities at the Site, there are no obvious impacts to ecological receptors or their habitats.

Section 5 - Site Summary

The ecological checklist submittal shall include a site summary which presents sufficient information to verify that the AOI meets or does not meet the criteria for further assessment.

Because there are no significant ecological habitats within the developed property, the area would be considered as disturbed ground and would not provide potential habitat for terrestrial ecological receptors. Furthermore, the areas of impacted soil in the South Plant will be covered by an engineered cap which will prevent any ecological exposure to soil that might rarely occur from transient species.

Based on site observations, no recreational species, commercial species, and threatened or endangered species, and/or their habitats are currently being exposed, or would be expected to be exposed, to COC present at or migrating from the AOI. This is primarily due to the lack of available habitat within the South Plant area.

Results of the screening assessment of USEPA (2005) surface water and sediment data do not indicate that a significant release has occurred. Concentrations detected are either below USEPA ecological screening levels or below background levels.

However, future potential exposure via the groundwater to surface water discharge pathways is possible. This pathway will be mitigated by the proposed groundwater remediation.

Based on available information, further ecological assessment does not appear to be warranted at this Site. However, it is assumed that the proposed groundwater remediation at this Site will mitigate the groundwater to surface water discharge pathway.

Section 6 - Submitter Information

Date:	July 18, 2008
Name of person submitting this check list:	Craig A. Derouen
Affiliation:	ARCADIS
Signature	Craig A. Derouen
Additional Preparers:	Lance W. Fontenot, Ph.D.

ARCADIS

Table D-1. Reported Chemical Concentrations from 2005 USEPA Surface Water Sampling Event, Mississippi Bluffs, Vicksburg, Mississippi.

Sample ID: Parameter (Unit)	USEPA Region 4 Screening Level[a]	MDEQ Tier 1 TRG Groundwater [d]	USEPA WQC (Organism Only) [f]	VC-SW-01	VC-SW-04	VC-SW-07	VC-SW-08	VC-SW-09
Volatile Organic Compounds (µg/L)								
Bromodichloromethane	**2,160[b]**	**5[e]**	NAV	ND	**0.13J**	ND	ND	ND
Carbon Tetrachloride	**352**	**5**	**1.6**	ND	ND	ND	**1.4**	ND
Chloroform	**289**	**5[e]**	**470**	ND	**0.38J**	ND	**1.4**	**0.2 AJ**
Toluene	**175**	**1,000**	**15,000**	**0.16J**	**0.11J**	ND	**0.079J**	**0.12 AJ**
Pesticides/PCB (µg/L)								
Dinoseb (DNBP)	**0.48[c]**	**7**	NAV	**3.6J**	ND	ND	**0.059J**	**0.24J**
Metals (µg/L)								
Barium	**220[c]**	**2,000**	NAV	**200J**	**190J**	**170J**	**200J**	**160J**

a Value presented is USEPA Region 4 Waste Management Division Freshwater Surface Water Chronic Screening Value (USEPA 2001)
b TCEQ. 2006. Update to Guidance for Conducting Ecological Risk Assessments at Remediation Sites In Texas RG-263 (Revised). Remediation Division. January. http://www.tceq.state.tx.us/assets/public/remediation/eco/0106eragupdate.pdf. This TCEQ standard was utilized because USEPA does not have a standard for this compound.
c USEPA Region 5 Ecological Screening Level, August 22, 2003.
d MDEQ Tier 1 TRG for groundwater conservatively used for screening purposes.
e Screening value used is the Reporting Limit.
f USEPA 2006. National Recommended Water Quality Criteria. http://www.epa.gov/waterscience/criteria/nrwqc-2006.pdf
Shaded sample concentrations are higher than the concentration reported for background sample "VC-SW-01".
AJ Analyte analyzed in replicate. Reported value is "average" of replicates. Identification of analyte is acceptable; reported value is an estimate.
J Identification of analyte is acceptable; reported value is an estimate.
ND Not detected.
NAV Not available.
TCEQ Texas Commission on Environmental Quality.
USEPA U.S. Environmental Protection Agency.
µg/L Micrograms per liter.

ARCADIS

Table D-2. Reported Chemical Concentrations from 2005 USEPA Sediment Sampling Event, Mississippi Bluffs, Vicksburg, Mississippi.

Sample ID: Parameter (Unit)	USEPA Region 4 Screening Level[a]	MDEQ Tier 1 TRG Soil Unrestricted Level[e]	VC-SD-01	VC-SD-02	VC-SD-03	VC-SD-04	VC-SD-05	VC-SD-06	VC-SD-07	VC-SD-08	VC-SD-09	VC-SD-10D	VC-SD-10	VC-SD-11
Volatile Organic Compounds (µg/kg)														
1,4-Dichlorobenzene	**350[b]**	**26,600**	**0.29J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND
Carbon Disulfide	**23.9[c]**	**7,970**	**0.40J**	ND	ND	ND	ND	**0.48J**	ND	ND	ND	**0.23J**	NA	ND
Methyl Acetate	**NAV**	**78,200,000**	**12**	**9.2**	**4.3**	**4.9**	**7.8**	**7**	**3.1**	**2.8**	ND	ND	NA	**5.2**
Methyl Ethyl Ketone	**42.4[c]**	**84500**	**2.2J**	ND	ND	ND	ND	ND	ND	ND	ND	**2.6J**	NA	ND
p-Isopropyltoluene	**1[d]**	NAV	**12.1**	ND	ND	ND	ND	ND	ND	ND	ND	**0.62J**	NA	ND
Toluene	**670[b]**	**38000**	**24**	ND	ND	ND	ND	ND	ND	ND	ND	**0.36J**	NA	ND
Pesticides/PCB (µg/kg)														
4,4'-DDT(p,p'-DDT)	**1.19**	**1,880**	**4.2J**	ND	ND	ND	ND	**4.2J**	ND	ND	ND	ND	NA	ND
4,4'-DDE (p,p-DDE)	**2.07**	**1,880**	**3.7J**	ND	ND	ND	ND	**1.9J**	ND	ND	ND	ND	NA	ND
Dinoseb (DNBP)	**14.5[c]**	**78,200**	ND	ND	ND	ND	**0.023JN**	ND	ND	ND	ND	ND	NA	ND
Aroclor 1254 (PCB)	**21.6**	**1,000**	ND	ND	ND	ND	ND	ND	ND	**140J**	ND	ND	NA	ND
Metals (mg/kg)														
Arsenic	**7.24**	**11.8[f]**	**6.5**	**6**	**3.6**	**5.1**	**7**	**6.1**	**5.3**	**8**	**5.6**	**6**	**5.5**	**6.4**
Barium	NAV	**5,480**	**130**	**110**	**65**	**100**	**150**	**110**	**93**	**150**	**96**	**100**	**97**	**170**
Chromium	**52.3**	**117,000**	**12J**	**10J**	**6.6J**	**9.5J**	**13J**	**10J**	**8.7J**	**17J**	**7.3J**	**9.4J**	**8.8J**	**10J**
Lead	**30.2**	**400**	**31J**	**9.1J**	**21J**	**15J**	**16J**	**32J**	**8J**	**12J**	**8.3J**	**10J**	**9.3J**	**15J**
Total Mercury	**0.13**	**10**	ND	ND	ND	ND	ND	**0.19**	ND	**0.14**	ND	ND	ND	ND

a Value presented is USEPA Region 4 Waste Management Division Sediment Screening Value (USEPA 2001).
b USEPA. 1996. Ecotox Thresholds. Eco Update Vol. 3, Number 2. EPA 540/F-95/038. January.
c USEPA Region 5 Ecological Screening Levels (ESLs), dated August 22, 2003.
TCEQ. 2006. Update to Guidance for Conducting Ecological Risk Assessments at Remediation Sites In Texas RG-263 (Revised). Remediation Division. January.
d http://www.tceq.state.tx.us/assets/public/remediation/eco/0106eragupdate.pdf. This TCEQ standard was utilized because USEPA does not have a standard for this compound.
e MDEQ Tier 1 TRG for soil (unrestricted) used for screening purposes.
f 95 percent upper confidence level of the mean of the site background concentration.
Shaded sample concentrations are higher than the concentration reported for background sample "VC-SD-01".
J Identification of analyte is acceptable; reported value is an estimate.
JN Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
mg/kg Milligrams per kilogram.
NA Not analyzed.
ND Not detected.
NAV Not available.
TCEQ Texas Commission on Environmental Quality.
USEPA U.S. Environmental Protection Agency.
µg/kg Micrograms per kilogram.

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U:\projects\Harcros\plotfiles\LA002656-01-02-D1.pdf

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DRAWN BY: JEC	CHECKED BY: CD
PROJECT MANAGER: DRE	DEPT. MANAGER: DRE
DATE: 02/25/2008	TASK NUMBER: 00001

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FORMER VICKSBURG CHEMICAL COMPANY

SITE AERIAL PHOTOGRAPH

PROJECT NUMBER: LA002656.0001

FIGURE NUMBER: **D-1**

Site-Specific Sampling Plan
(USEPA 2005)

Tetra Tech EM Inc.

Northmont Business Park ◆ 1955 Evergreen Boulevard, Suite 300 ◆ Duluth, GA 30096 ◆ (678) 775-3080 ◆ FAX (678) 775-3138

March 21, 2005

Ms. Lael Butler
U.S. Environmental Protection Agency, Region 4
61 Forsyth Street SW, 11th Floor
Atlanta, Georgia 30303

Subject: **Site-Specific Sampling Plan, Revision 0**
Vicksburg Chemical Company
EPA ID No. MSD990714081
EPA Contract No. 68-W-00-120 (START 4)
Technical Direction Document (TDD) No. 4T-05-11-E-005

Dear Ms. Butler:

The Tetra Tech EM Inc. (Tetra Tech) Superfund Technical Assessment and Response Team (START) is submitting one electronic copy of the site-specific sampling plan (SSSP), revision 0, to provide technical support at the Vicksburg Chemical Company in Vicksburg, Warren County, Mississippi. The SSSP was prepared in accordance with revision 2 of the technical support work plan dated March 9, 2005.

As discussed with you, the SSSP consists of tables describing the sampling locations and figures depicting the proposed sampling locations (Attachment 1). All samples will be collected in accordance with the EPA Region 4, Science and Ecosystem Support Division (SESD) Environmental Investigations Standard Operating Procedures and Quality Assurance Manual (EISOPQAM) (November 2001) (Excerpt, Attachment 2). Specific sampling locations will be determined in the field. Geographic coordinates will be collected for all sampling locations. Because the site is in the Resource Conservation and Recovery Act (RCRA) program, investigation-derived waste including field decontamination water and purge water from ground water sample collection activities will be containerized on site and disposed of in the surface impoundments at the South Plant. This procedure is in accordance with Section 7.2.5 of the SESD EISOPQAM (Excerpt, Attachment 2).

Based on the TDD and discussions with you, Tetra Tech will collect 5 surface soil samples in the vicinity of solid waste management unit (SWMU 2 [inactive landfill]), 20 ground water samples from on-site monitoring wells, and 10 sediment and 5 surface water (collocated with sediment) samples from Stouts, Hatcher, and Hennesseys Bayous. Once collected, the samples will be packed on ice, preserved as necessary, and shipped to the EPA Region 4, SESD, Analytical Support Branch (ASB) or a Contract Laboratory Program (CLP) laboratory for analysis of the following parameters: volatile organic compounds; RCRA metals; pesticides including dinoseb, atrazine, and toxaphene; and pH. Per conversations with EPA Region 4 Sampling Management Office personnel, organic parameters will be analyzed by the SESD ASB and will follow the ASB Laboratory Operations and Quality Assurance Manual, and inorganic parameters will be analyzed under the CLP in accordance with the CLP Statement of Work for Inorganic Analysis, ILM 05.3.

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The field sampling team will consist of team members from the following organizations: two people from EPA Region 4, two people from the Mississippi Department of Environmental Quality (MDEQ), and three people from Tetra Tech. Prior to the field sampling activities, MDEQ personnel will conduct an on-site reconnaissance of the facility to determine accessibility, condition of wells, possibly flag sampling locations, and collect water level measurements from all on-site monitoring wells and piezometers. The field sampling investigation is scheduled for the week of March 28, 2005.

Please contact me at (678) 775-3109 or Sandra Harrigan at (678) 775-3088 to finalize the list of analytical parameters, and if you have any questions regarding the SSSP.

Sincerely,

Sandra Harrigan

Shanna Damken for
START II Project Manager

Hieu Q. Vu, PE CHMM
START II Program Manager

Attachment 1 Tables and Figures
Attachment 2 Excerpt from the EPA Region 4 SESD EISOPQAM

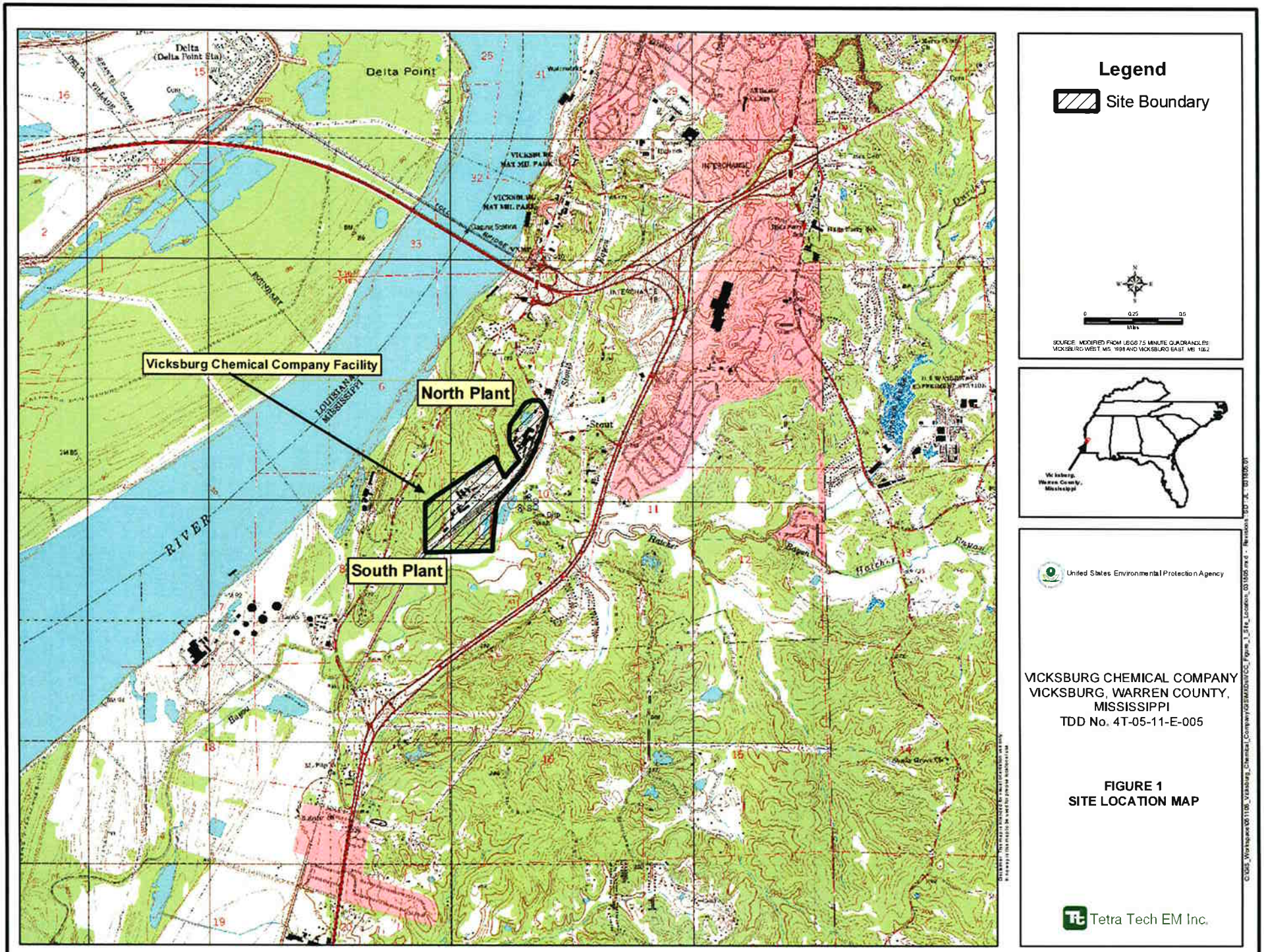
cc: Matthew Monsees, EPA Project Officer
Art Masters, EPA SESD
Sandra Harrigan, START II Site Assessment Manager (w/o attachments)
Angel Reed, START II Document Control Coordinator

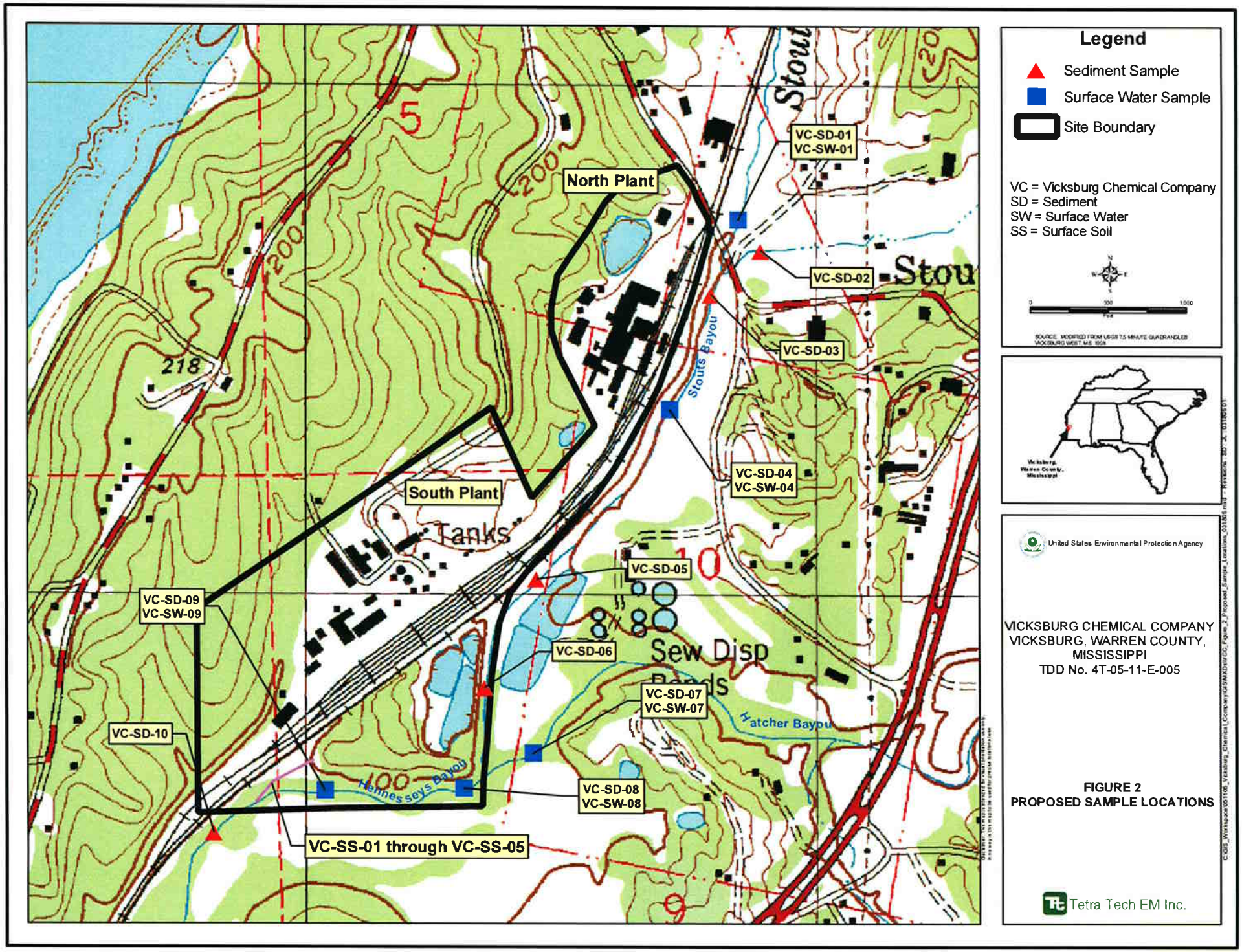
ATTACHMENT 1

TABLES AND FIGURES

(11 Pages)

Figure 1	Site Location Map
Figure 2	Proposed Sample Locations (Surface Soil, Sediment, and Surface Water)
Figure 3	Proposed Ground Water Sample Locations
Table 1	Surface Soil Sampling Plan
Table 2	Ground Water Sampling Plan
Table 3	Sediment Sampling Plan
Table 4	Surface Water Sampling Plan
Table 5	Quality Assurance/Quality Control Samples
Table 6	Analytical Methodology, Required Sample Containers, and Preservatives


Delta
(Delta Point Sta)
Delta Point
Vicksburg Chemical Company Facility
North Plant
South Plant
LOUISIANA
MISSISSIPPI
RIVER
Stout
Bayou
Hatchet
Legend
Site Boundary
SOURCE: MODIFIED FROM USGS 7.5 MINUTE QUADRANGLES VICKSBURG WEST, MS, 1998 AND VICKSBURG EAST, MS 1962
Vicksburg, Warren County, Mississippi
United States Environmental Protection Agency
VICKSBURG CHEMICAL COMPANY
VICKSBURG, WARREN COUNTY, MISSISSIPPI
TDD No. 4T-05-11-E-005
FIGURE 1
SITE LOCATION MAP
Tetra Tech EM Inc.


North Plant
South Plant
VC-SD-01
VC-SW-01
VC-SD-02
VC-SD-03
VC-SD-04
VC-SW-04
VC-SD-05
VC-SD-06
VC-SD-07
VC-SW-07
VC-SD-08
VC-SW-08
VC-SD-09
VC-SW-09
VC-SD-10
VC-SS-01 through VC-SS-05
Stouts Bayou
Hatcher Bayou
Hennessys Bayou
Tanks
Sew Disp
Legend
Sediment Sample
Surface Water Sample
Site Boundary
VC = Vicksburg Chemical Company
SD = Sediment
SW = Surface Water
SS = Surface Soil
United States Environmental Protection Agency
VICKSBURG CHEMICAL COMPANY
VICKSBURG, WARREN COUNTY, MISSISSIPPI
TDD No. 4T-05-11-E-005
FIGURE 2
PROPOSED SAMPLE LOCATIONS
Tetra Tech EM Inc.

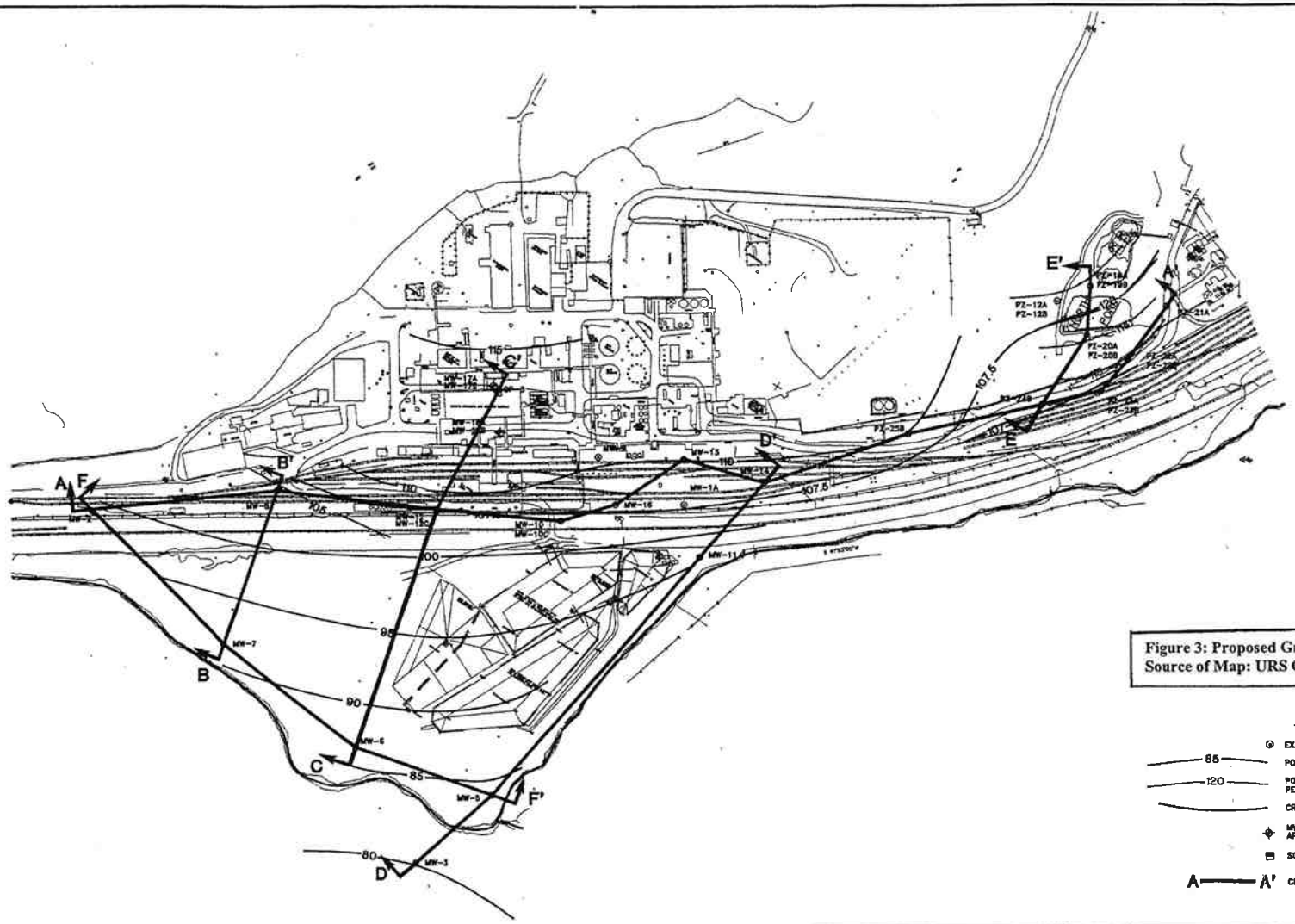


Figure 3: Proposed Ground Water Sampling Locations
Source of Map: URS Greiner Woodward Clyde

LEGEND:

- EXISTING MONITOR WELL OR PIEZOMETER LOCATION
- 85 — POTENTIOMETRIC CONTOUR (UPPERMOST AQUIFER)
- 120 — POTENTIOMETRIC CONTOUR PERCHED WATER TABLE IN NORTH POND AREA
- CREEK
- MW-17A, MW-17B, MW-18A, MW-18C, MW-12C ARE PROPOSED LOCATIONS
- SOIL BORING LOCATION
- A — A' CROSS-SECTION LOCATION LINE

REV	DESCRIPTION OF REVISION	BY	DATE
△			
△			
△			
△			
△			
△			

VICKSBURG CHEMICAL CORPORATION
VICKSBURG, MISSISSIPPI

URS Greiner Woodward Clyde
2822 O'Neal Lane
Baton Rouge, Louisiana 70816
225/751-1873

REFERENCE DRAWINGS

SCALE: 1"=300'
DESIGNED:
DRAWN: PCO
CHECKED:
PCO REVISED:
DATE: 9/29/99

GROUNDWATER ASSESSMENT WORK PLAN

POTENTIOMETRIC CONTOURS
WITH CROSS SECTION LOCATIONS

REVISION: △
PROJECT: 3500963315
5

K:\cedar\960315\960315c.dwg Wed Nov 10 14:43:15 1999

TABLE 1
VICKSBURG CHEMICAL COMPANY
SURFACE SOIL SAMPLING PLAN

Sample Number	Location	Rationale
VC-SS-01	On site, from drainage ditch between the landfill (SWMU 2) and the railroad tracks; exact location of drainage ditch and sampling location will be determined in the field	Determine presence or absence of hazardous substances
VC-SS-02	On site, from drainage ditch between the landfill (SWMU 2) and the railroad tracks; exact location of drainage ditch and sampling location will be determined in the field	Determine presence or absence of hazardous substances
VC-SS-03	On site, from drainage ditch between the landfill (SWMU 2) and the railroad tracks; exact location of drainage ditch and sampling location will be determined in the field	Determine presence or absence of hazardous substances
VC-SS-04	On site, from drainage ditch between the landfill (SWMU 2) and the railroad tracks; exact location of drainage ditch and sampling location will be determined in the field	Determine presence or absence of hazardous substances
VC-SS-05	On site, from drainage ditch between the landfill (SWMU 2) and the railroad tracks; exact location of drainage ditch and sampling location will be determined in the field	Determine presence or absence of hazardous substances

Notes:

VC	Vicksburg Chemical Company
SS	Surface soil sample
SWMU	Solid waste management unit

TABLE 2
VICKSBURG CHEMICAL COMPANY
GROUND WATER SAMPLING PLAN

Sample Number	Location	Rationale
VC-PZ-21A	On site, eastern portion of North Plant	Determine presence or absence of hazardous substances
VC-PZ-22B	On site, southeastern portion of North Plant	Determine presence or absence of hazardous substances
VC-PZ-25B	On site, between the North and South Plants	Determine presence or absence of hazardous substances
VC-PZ-26A	On site, located at North Plant of facility	Determine presence or absence of hazardous substances
VC-MW-1C	On site, South Plant west of the railroad tracks and north of SWMU 3	Determine presence or absence of hazardous substances
VC-MW-2	On site, southernmost portion of South Plant along railroad tracks	Determine presence or absence of hazardous substances
VC-MW-3	On site, southern portion of South Plant, south of the confluence of Hatcher and Hennesseys Bayous	Determine presence or absence of hazardous substances
VC-MW-6	On site, south of inactive landfill (SWMU 2)	Determine presence or absence of hazardous substances
VC-MW-7	On site, southwest of inactive landfill (SWMU 2)	Determine presence or absence of hazardous substances
VC-MW-8	On site, southern portion of South Plant along railroad tracks between SWMUs 2 and 17	Determine presence or absence of hazardous substances
VC-MW-9	On site, eastern protion of South Plant in the vicinity of SWMUs 18 and 21	Determine presence or absence of hazardous substances

TABLE 2 (Continued)
VICKSBURG CHEMICAL COMPANY
GROUND WATER SAMPLING PLAN

Sample Number	Location	Rationale
VC-MW-10C	On site, eastern portion of South Plant, between SWMU 3 and railroad tracks	Determine presence or absence of hazardous substances
VC-MW-11	On site, at South Plant just north of SWMU 3	Determine presence or absence of hazardous substances
VC-MW-12C	On site, eastern portion of the South Plant between SWMU 3 and railroad tracks	Determine presence or absence of hazardous substances
VC-MW-13	On site, northern portion of South Plant near SWMU 20	Determine presence or absence of hazardous substances
VC-MW-14	On site, northern portion of South Plant	Determine presence or absence of hazardous substances
VC-MW-16	On site, central portion of South Plant along railroad tracks northwest of SWMW 3	Determine presence or absence of hazardous substances
VC-MW-17A	On site, central portion of South	Determine presence or absence of hazardous substances
VC-MW-18A	On site central portion of South Plant	Determine presence or absence of hazardous substances
VC-MW-04	On site, located at the northwestern corner of the North Plant	Background ground water sampling location for comparison to downgradient samples

Notes:

VC	Vicksburg Chemical Company
MW	Monitoring well
PZ	Piezometer
SWMU	Solid waste management unit

TABLE 3
VICKSBURG CHEMICAL COMPANY
SEDIMENT SAMPLING PLAN

Sample Number	Location	Rationale
VC-SD-01	Off site, from Stouts Bayou, upstream of facility on the north side of the Rifle Range Road bridge	Background sediment sample for comparison to downgradient sediment samples
VC-SD-02	Off site, from unnamed tributary of Stouts Bayou on the north side of the Rifle Range Road Bridge	Control sediment sample for comparison to downgradient sediment samples
VC-SD-03	Off site, from Stouts Bayou adjacent to the northeastern boundary of the North Plant, downgradient of the Rifle Range Road bridge	Determine whether site runoff or ground water discharge from the facility has impacted Stouts Bayou
VC-SD-04	Off site, in Stouts Bayou adjacent to the southeastern boundary of the North Plant	Determine whether site runoff or ground water discharge from the facility has impacted Stouts Bayou
VC-SD-05	On site, from Stouts Bayou adjacent to the northeastern boundary of the South Plant, between the railroad tracks and the northernmost pond of SWMU 3	Determine whether site runoff or ground water discharge from the facility has impacted Stouts Bayou
VC-SD-06	On site, from Stouts Bayou between the ponds that comprise SWMU 3	Determine whether site runoff or ground water discharge from the facility has impacted Stouts Bayou
VC-SD-07	Off site, from Hatcher Bayou upstream of the confluence of Stouts Bayou and Hennessy Bayou	Control sediment sample for comparison to downgradient sediment samples
VC-SD-08	Off site, from Hennessy Bayou near the southeast corner of the inactive landfill (SWMU 2)	Determine whether site runoff or ground water discharge from the facility has impacted Hennessy Bayou
VC-SD-09	Off site, from Hennessy Bayou near the southwest corner of the inactive landfill (SWMU 2)	Determine whether site runoff or ground water discharge from the facility has impacted Hennessy Bayou

TABLE 3 (Continued)
VICKSBURG CHEMICAL COMPANY
SEDIMENT SAMPLING PLAN

Sample Number	Location	Rationale
VC-SD-10	Off site, from Hennessy Bayou down gradient of the South Plant	Determine whether site runoff or ground water discharge from the facility has impacted Hennessy Bayou

Notes:

VC	Vicksburg Chemical Company
SD	Sediment sample
SWMU	Solid waste management unit

TABLE 4
VICKSBURG CHEMICAL COMPANY
SURFACE WATER SAMPLING PLAN

Sample Number	Location	Rationale
VC-SW-01	Off site, from Stouts Bayou, upstream of facility on the north side of the Rifle Range Road bridge	Off site, from Stouts Bayou, upstream of facility on the north side of the Rifle Range Road bridge
VC-SW-04	Off site, in Stouts Bayou adjacent to the southeastern boundary of the North Plant	Determine whether site runoff or ground water discharge from the facility has impacted Stouts Bayou
VC-SW-07	Off site, from Hatcher Bayou upstream of the confluence of Stouts Bayou and Hennessy Bayou	Control sediment sample for comparison to downgradient sediment samples
VC-SW-08	On site, from Hennessy Bayou near the southeastern corner of the inactive landfill (SWMU 2)	Determine whether site runoff or ground water discharge from the facility has impacted Hennessy Bayou
VC-SW-09	Off site, from Hennessy Bayou near the southwest corner of the inactive landfill (SWMU 2)	Determine whether site runoff or ground water discharge from the facility has impacted Hennessy Bayou

Notes:

VC	Vicksburg Chemical Company
SW	Surface water sample
SWMU	Solid waste management unit

TABLE 5
VICKSBURG CHEMICAL COMPANY
QUALITY ASSURANCE/QUALITY CONTROL SAMPLES

Sample Number	Sample Type	Rationale
VC-BS-01	Soil trip blank	Determine if unknown site conditions or sample handling procedures are influencing sample results
VC-TB-01	Water trip blank	Determine the existence and magnitude of contamination resulting from laboratory (or field) activities
VC-RB-01	Equipment rinsate blank	Determine if decontamination procedures adequately clean equipment
VC-PB-01	Preservative blank	Determine if preservatives or sample handling procedures are influencing sample results
Predetermined	Metals blank (provided by SESD)	Determine if unknown site conditions or sample handling procedures are influencing sample results
VC-XX-XX	MS/MSD	Provide information about the effect of each sample matrix on the sample preparation procedures and the measurement methodology
VC-XX-XX	Field duplicates	Measure both field and laboratory precision

Notes:

BS	Soil blank
MS/MSD	Matrix spike/matrix spike duplicate
PB	Preservative blank
RB	Rinsate blank
SESD	Science and Ecosystem Support Division
TB	Trip blank
VC	Vicksburg Chemical Company

TABLE 6
VICKSBURG CHEMICAL COMPANY
ANALYTICAL METHODOLOGY, REQUIRED SAMPLE CONTAINERS, AND PRESERVATIVES

Matrix	Analysis	EPA Method	Sample Container	Preservative
Surface Water, Ground Water	VOA	SW846-8260B	Two, 40-ml glass vials	HCl, pH < 2, and cool to 4 °C
	Pesticides	SW846-8270C	Two, 1-liter glass amber bottles	Cool to 4 °C
	Metals Mercury	ILM05.3 (ICP-AES)	One, 1-liter polyethylene bottle	HNO_3, pH < 2, and cool to 4 °C
	Cyanide	ILM05.3 (ICP-AES)	One, 1-liter polyethylene bottle	NaOH, pH > 12, and cool to 4 °C
Soil, Sediment	VOA	SW846-5035A	Three Encore® samplers and one, 2-oz glass jar with septum lid	Cool to 4 °C
	Pesticides	SW846-8270C	One, 8-oz glass jar	Cool to 4 °C
	Metals Mercury Cyanide	ILM05.3 (ICP-AES)	One, 8-oz glass jar	Cool to 4 °C

Notes:

<	Less than
>	Greater than
BNA	Base, neutral, and acid extractables
CLP	Contract Laboratory Program
°C	Degree Celsius
EPA	U.S. Environmental Protection Agency
HCl	Hydrochloric acid
HNO_3	Nitric acid
ILM05.3 (ICP-AES)	CLP Statement of Work for Inorganic Analysis
ml	Milliliter
NaOH	Sodium hydroxide
OLM04.2	CLP Statement of Work for Organic Analysis
oz	Ounce
PCB	Polychlorinated biphenyls
SW846	Test Methods for Evaluating Solid Waste, Physical/Chemical Methods
VOA	Volatile organic analysis

ATTACHMENT 2

EXCERPT FROM THE U.S. ENVIRONMENTAL PROTECTION AGENCY SCIENCE AND ECOSYSTEM SUPPORT DIVISION ENVIRONMENTAL INVESTIGATIONS STANDARD OPERATING PROCEDURES AND QUALITY ASSURANCE MANUAL (NOVEMBER 2001)

(28 Pages)

SECTION 7
GROUND WATER SAMPLING

PERFORMANCE OBJECTIVES:

- To collect a sample representative of ground water residing in the formation of interest.
- To reduce the potential bias caused by the sampling equipment used to obtain the sample.

7.1 Introduction

Ground water sampling may be required for a variety of reasons, such as examining potable or industrial water supplies, checking for and/or tracking contaminant plume movement in the vicinity of a land disposal or spill site, Resource Conservation Recovery Act (RCRA) compliance monitoring, or examining a site where historical information is minimal or non-existent but where it is thought that ground water contamination may have occurred.

Ground water samples are usually obtained from either temporarily or permanently installed ground water monitoring wells. They can also be obtained, however, anywhere ground water is present, such as in a pit or a dug or drilled hole.

Occasionally, the ground water source may not be in the ideal location to meet a particular objective (e.g., to track a contaminant plume). In that case, either a temporary or permanent monitoring well should be installed. An experienced and knowledgeable person will need to locate the well and supervise its installation so that samples will be representative of the ground water.

Additional guidance is given in RCRA Ground-Water Monitoring: Technical Guidance (1) and Chapter 11 of SW-846 (2). The ground water sampling procedures described in this SOP will meet or exceed the requirements of these documents.

Ground water sampling procedures can be sub-divided into two areas, purging and sampling, each of which has different goals and objectives. Within the topic of purging, it is necessary, because of the inherently different characteristics of the two types of wells, to address permanent and temporary wells separately. The procedures and techniques which follow in this section reflect these differences.

7.2 Purging

7.2.1 Purging and Purge Adequacy

Purging is the process of removing stagnant water from a monitoring well, immediately prior to sampling, causing its replacement by ground water from the adjacent formation, which is representative of actual aquifer conditions. In order to determine when a well has been adequately purged, field investigators

should: 1) monitor the pH, specific conductance, temperature, and turbidity of the ground water removed during purging; and 2) observe and record the volume of water removed.

Prior to initiating the purge, the amount of water standing in the water column (water inside the well riser and screen) should be determined. To do this, the diameter of the well should be determined and the water level and total depth of the well are measured and recorded. Specific methodology for obtaining these measurements is found in Section 15.5 of this SOP. Once this information is obtained, the volume of water to be purged can be determined using one of several methods. One is the equation:

$$V = 0.041\ d^2h$$

Where: h = depth of water in feet
d = diameter of well in inches
V = volume of water in gallons

Alternatively, the volume may be determined using a casing volume per foot factor for the appropriate diameter well, similar to that in Table 7.2.1. The water level is subtracted from the total depth, providing the length of the water column. This length is multiplied by the factor in the Table 7.2.1 which corresponds to the appropriate well diameter, providing the amount of water, in gallons, contained in the well. Other acceptable methods include the use of nomographs or other equations or formulae.

With respect to volume, an adequate purge is normally achieved when three to five times the volume of standing water in the well has been removed. The field notes should reflect the single well volume calculations or determinations, according to one of the above methods, and a reference to the appropriate multiplication of that volume, i.e., a minimum three well volumes, clearly identified as a purge volume goal.

With respect to the ground water chemistry, an adequate purge is achieved when the pH, specific conductance, and temperature of the ground water have stabilized and the turbidity has either stabilized or is below 10 Nephelometric Turbidity Units (NTUs) (twice the Primary Drinking Water Standard of 5 NTUs). Although ten NTUs is normally considered the minimum goal for most ground water sampling objectives, 1 NTU has been shown to be easily achievable and reasonable attempts should be made to reach this level. Stabilization occurs when pH measurements remain constant within 0.1 Standard Unit (SU), specific conductance varies no more that 10 percent, and the temperature is constant for at least three consecutive readings. There are no criteria establishing how many sets of measurements are adequate for the determination of stability. If the calculated purge volume is small, the measurements should be taken frequently to provide a sufficient number of measurements to evaluate stability. If the purge volume is large, measurements taken every 15 minutes may be sufficient.

If, after three well volumes have been removed, the chemical parameters have not stabilized according to the above criteria, additional well volumes (up to five well volumes), should be removed. If the parameters have not stabilized within five volumes, it is at the discretion of the project leader whether or not to collect a sample or to continue purging. If after five well volumes, pH and conductivity have been stabilized and the turbidity is still decreasing and approaching an acceptable level, additional purging should be considered to obtain the best sample possible. The conditions of sampling should be noted in the field log.

TABLE 7.2.1
WELL CASING DIAMETER vs. VOLUME

WELL CASING DIAMETER 9 (INCHES) vs. VOLUME (GALS.)/FEET of WATER	
CASING	GALLONS/FT
1	0.041
2	0.163
3	0.367
4	0.653
5	1.02
6	1.469
7	1.999
8	2.611
9	3.305
10	4.08
11	4.934
12	5.875

In some situations, even with slow purge rates, a well may be pumped or bailed dry (evacuated). In these situations, this generally constitutes an adequate purge and the well can be sampled following sufficient recovery (enough volume to allow filling of all sample containers). It is not necessary that the well be evacuated three times before it is sampled. The pH, specific conductance, temperature, and turbidity should be measured, during collection of the sample from the recovered volume, as the measurements of record for the sampling event.

Attempts should be made to avoid purging wells to dryness. This can be accomplished, for example, by slowing the purge rate. If a well is pumped dry, it may result in the sample being comprised partially of water contained in the sand pack, which may be reflective, at least in part, of initial, stagnant conditions. In addition, as water re-enters a well that is in an evacuated condition, it may cascade down the sand pack or the well screen, stripping volatile organic constituents that may be present and/or introducing soil fines into the water column.

It is particularly important that wells be sampled as soon as possible after purging. If adequate volume is available, the well must be sampled immediately. If not, sampling should occur as soon as adequate volume has recovered.

Equipment Available

Monitoring well purging is accomplished by using in-place plumbing and dedicated pumps or, by using portable pumps/equipment when dedicated systems are not present. The equipment may consist of a variety of pumps, including peristaltic, large and small diameter turbine (electric submersible), bladder, centrifugal, gear-driven positive displacement, or other appropriate pumps. The use of any of these pumps is usually a function of the depth of the well being sampled and the amount of water that is to be removed during purging. Whenever the head difference between the sampling location and the water level is less than the limit of suction and the volume to be removed is reasonably small, a peristaltic pump should be used for purging. Appendix E of this SOP contains the operating instructions for all pumps commonly used during Branch ground water investigations.

Bailers may also be used for purging in appropriate situations, however, their use is discouraged. Bailers tend to disturb any sediment that may be present in the well, creating or increasing sample turbidity. If a bailer is used, it should be a closed-top Teflon® bailer.

7.2.2 Purging Techniques (Wells Without Plumbing or In-Place Pumps)

For permanently installed wells, the depth of water and depth of the well should be determined (if possible) before purging. Electrical water level indicators/well sounders can be used for this purpose. It is standard practice to mark the top of casing, providing a point of reference from which these measurements will be consistently made. Field investigators should look for these markings when taking these measurements. Extreme caution should be exercised during this procedure to prevent cross-contamination of the wells. This is a critical concern when samples for trace organic compounds or metals analyses are collected. At a minimum, the well sounding device should be cleaned by washing in a laboratory detergent solution, followed by rinses with tap water and analyte-free water. After cleaning, it should be placed in a clean plastic bag or wrapped in foil.

Purging with Pumps

When peristaltic pumps or centrifugal pumps are used, only the intake line is placed into the water column. The line placed into the water should be either standard-cleaned (see Appendix B) Teflon® tubing, for peristaltic pumps, or standard-cleaned stainless steel pipe attached to a hose for centrifugal pumps.

When submersible pumps (bladder, turbine, displacement, etc.) are used, the pump itself is lowered into the water column. The pump must be cleaned as specified in Appendix B.

Purging with Bailers

Standard-cleaned (Appendix B) closed-top Teflon® bailers with Teflon® leaders and new nylon rope are lowered into top of the water column, allowed to fill, and removed. It is critical that bailers be slowly and gently immersed into the top of the water column, particularly during final stages of purging, to minimize turbidity and disturbance of volatile organic constituents. The use of bailers for purging and sampling is discouraged because the correct technique is highly operator dependent.

Field Care of Purging Equipment

Regardless of which method is used for purging, new plastic sheeting should be placed on the ground surface around the well casing to prevent contamination of the pumps, hoses, ropes, etc., in the event they need to be placed on the ground during the purging or they accidentally come into contact with the ground surface. It is preferable that hoses used in purging that come into contact with the ground water be kept on a spool or contained in a plastic-lined tub, both during transporting and during field use, to further minimize contamination from the transporting vehicle or ground surface.

Purging Entire Water Column

The pump/hose assembly or bailer used in purging should be lowered into the top of the standing water column and not deep into the column. This is done so that the purging will "pull" water from the formation into the screened area of the well and up through the casing so that the entire static volume can be removed. If the pump is placed deep into the water column, the water above the pump may not be removed, and the subsequent samples, particularly if collected with a bailer, may not be representative of the ground water.

It is recommended that no more than three to five feet of hose be lowered into the water column. If the recovery rate of the well is faster than the pump rate and no observable draw down occurs, the pump should be raised until the intake is within one foot of the top of the water column for the duration of purging. If the pump rate exceeds the recovery rate of the well, the pump will have to be lowered, as needed, to accommodate the draw down. After the pump is removed from the well, all wetted portions of the hose and the pump should be cleaned as outlined in Appendix B of this SOP.

Careful consideration shall be given to using pumps to purge wells which are excessively contaminated with oily compounds, because it may be difficult to adequately decontaminate severely contaminated pumps under field conditions. When wells of this type are encountered, alternative purging methods, such as bailers, should be considered.

General Low Flow/Low Stress Method Preference

The device with the lowest pump or water removal rate and the least tendency to stress the well during purging should be selected for use. For example, if a bailer and a peristaltic pump both work in a given situation, the pump should be selected because it will greatly minimize turbidity, providing a higher quality sample (Section 7.2.4 contains a description of low flow purging and sampling with a peristaltic pump used in a temporary well). If a Fultz® pump or a Grundfos Redi-Flo2® could both be used, the Redi-Flo2® may be given preference because the speed can be controlled to provide a lower pump rate, thereby minimizing turbidity.

Low Flow/Low Volume Purging Techniques/Procedures

Alternatives to the low flow purging procedures exist and may be acceptable. The low flow/low volume purging is a procedure used to minimize purge water volumes. The pump intake is placed within the screened interval at the zone of sampling, preferably, the zone with the highest flow rate. Low flow rate purging is conducted after hydraulic conditions within the well have re-stabilized, usually within 24 to 48 hours. Flow rates should not exceed the recharge rate of the aquifer. This is monitored by measuring the top of the water column with a water level recorder or similar device while pumping. These techniques, however, are only acceptable under certain hydraulic conditions and are not considered standard procedures.

7.2.3 Purging Techniques - Wells with In-Place Plumbing

Wells with in-place plumbing are commonly found at municipal water treatment plants, industrial water supplies, private residences, etc. Many permanent monitoring wells at active facilities are also equipped with dedicated, in-place pumps. The objective of purging wells with in-place pumps is the same as with monitoring wells without in-place pumps, i.e., to ultimately collect a sample representative of the ground water. Among the types of wells identified in this section, two different approaches are necessary. The permanent monitoring wells with in-place pumps should, in all respects, be treated like the monitoring well without pumps. They generally are sampled only occasionally and require purging as described for wells without in-place pumps, i.e., 3 to 5 well volumes and stable parameters.

In the case of the other types of wells, however, not enough is generally known about the construction aspects of the wells to apply the same criteria as used for monitoring wells, i.e., 3 to 5 well volumes. The volume to be purged in these situations, therefore, depends on several factors: whether the pumps are running continuously or intermittently and whether or not any storage/pressure tanks are located between the sampling point and the pump. The following considerations and procedures should be followed when purging wells with in-place plumbing under the conditions described.

Continuously Running Pumps

If the pump runs more or less continuously, no purge (other than opening a valve and allowing it to flush for a few minutes) is necessary. If a storage tank is present, a spigot, valve or other sampling point should be located between the pump and the storage tank. If not, locate the valve closest to the tank. Measurements of pH, specific conductance, temperature, and turbidity are recorded at the time of sampling.

Intermittently Running Pumps

If the pump runs intermittently, it is necessary to determine, if possible, the volume to be purged, including storage/pressure tanks that are located prior to the sampling location. The pump should then be run continuously until the required volume has been purged. If construction characteristics are not known, best judgement should be used in establishing how long to run the pump prior to collecting the sample. Generally, under these conditions, 30 minutes will be adequate. Measurements of pH, specific conductance, temperature and turbidity should be made and recorded at intervals during the purge and the final measurements made at the time of sampling.

7.2.4 Purging Techniques - Temporary Monitoring Wells

Temporary ground water monitoring wells differ from permanent wells because temporary wells are installed in the ground water for immediate sample acquisition. Wells of this type may include standard well screen and riser placed in boreholes created by hand augering, power augering, or by drilling. They may also consist of a rigid rod and screen that is pushed, driven, or hammered into place to the desired sampling interval, such as the Direct Push Wellpoint®, the Geoprobe® and the Hydropunch®. As such, the efforts to remove several volumes of water to replace stagnant water do not necessarily apply in these situations, because generally, stagnant water is non-existent. It is important to note, however, that the longer a temporary well is in place and not sampled, the more appropriate it may be to apply, to the extent possible, standard permanent monitoring well purging criteria to it.

In cases where the temporary well is to be sampled immediately after installation, purging is conducted primarily to mitigate the impacts of installation. In most cases, temporary well installation procedures disturb the existing aquifer conditions, resulting primarily in increased turbidity. Therefore, the goal of purging is to reduce the turbidity and remove the volume of water in the area directly impacted by the installation procedure. Low turbidity samples in these types of wells are typically and routinely achieved by the use of low-flow purging and sampling techniques.

The following low-flow purging technique using peristaltic pumps has been used routinely to achieve acceptably low NTU values in a variety of temporary monitoring well applications.

In purging situations where the elevation of the top of the water column is no greater than approximately 25 feet below the pump head elevation, a peristaltic pump may be used to purge temporary wells. Enough tubing is deployed to reach the bottom of the temporary well screen. At the onset of purging, the tubing is slowly lowered to the bottom of the screen and is used to remove any formation material which may have entered the well screen during installation. This is critical to ensuring rapid achievement of low turbidity conditions. After the formation material is removed from the bottom of the screen, the tubing is slowly raised through the water column to near the top of the column. The tubing can be held at this level to determine if the pump is lowering the water level in the well. If not, secure the tubing at the surface to maintain this pumping level.

If the water column is lowered, and the pump is not variable speed, continue to lower the tubing as the water column is lowered. If a variable speed peristaltic pump is being used and draw down is observed

on initiation of pumping, reduce the pump speed and attempt to match the draw down of the well. Sustained pumping at these slow rates will usually result in a relatively clear, low turbidity sample. If the draw down stabilizes, maintain that level, however, if it continues to lower, "chase" the water column until the well is evacuated. In this case, the recovered water column may be relatively free of turbidity and can be sampled. It may take several episodes of recovery to provide enough volume for a complete sample.

With many of the direct push sampling techniques, purging is not practical or possible, therefore, no purging is conducted. The sampling device is simply pushed to the desired depth and opened and the sample is collected and retrieved.

7.2.5 Investigation Derived Waste

Purging generates quantities of purge water or investigation derived waste (IDW), the disposition of which must be considered. What is appropriate for the disposition of the water is, in part, dependent on the nature of the investigation. If the IDW is generated at a RCRA facility, it will generally be contained and disposed on site in an on-site treatment facility. IDW generated during Superfund or other investigations may, at the discretion of the field project leader or the program manager (remedial project manager), be discharged to the ground, away from the well, or be containerized for later disposal or other appropriate action.

7.3 Sampling

Sampling is the process of obtaining, containerizing, and preserving the ground water sample after the purging process is complete. Non-dedicated pumps for sample collection generally should not be used. Many pumps are made of materials, such as brass, plastic, rubber, or other elastomer products which may cause chemical interferences with the sample. Their principle of operation may also render them unacceptable as a sample collection device. The pump may be turbine driven, which may release volatile organic constituents. It is recognized that there are situations, such as industrial or municipal supply wells or private residential wells, where a well may be equipped with a dedicated pump from which a sample would not normally be collected. Discretion should always be used in obtaining a sample.

7.3.1 Equipment Available

Because of the problems with most pumps described in the preceding paragraph, only three devices should be used to collect ground water samples from most wells. These are the peristaltic pump/vacuum jug assembly, a stainless steel and Teflon® bladder pump, and a closed-top, Teflon® bailer.

Other monitoring equipment used during sampling includes water level indicators, pH meters, thermometers, conductivity bridges, and nephelometers (turbidity meters).

7.3.2 Sampling Techniques - Wells With In-Place Plumbing

Samples should be collected following purging from a valve or cold water tap as near to the well as possible, preferably prior to any storage/pressure tanks that might be present. Remove any hose that may be present before sample collection and reduce the flow to a low level to minimize sample disturbance, particularly with respect to volatile organic constituents. Samples should be collected directly into the appropriate containers (see Standard Sample Containers, Appendix A). It may be necessary to use a secondary container, such as a clean 8 oz. sample jar or a stainless steel scoop, to obtain and transfer samples from spigots with low ground clearance. Also, refer to the Potable Water Supply discussion in Section 2.2. All measurements for pH, specific conductance, temperature, and turbidity should be recorded at the time of measurement.

7.3.3 Sampling Techniques - Wells without Plumbing

Following purging, samples should be collected using a peristaltic pump/vacuum jug assembly, a Teflon®/stainless steel bladder pump, or a closed-top Teflon® bailer. These techniques are described below.

Peristaltic pump/vacuum jug

The peristaltic pump/vacuum jug can be used for sample collection because it allows for sample collection without the sample coming in contact with the pump tubing. This is accomplished by placing a Teflon® transfer cap assembly onto the neck of a standard cleaned 4-liter (1-gallon) glass container. Teflon® tubing (¼-inch O.D.) connects the container to both the pump and the sample source. The pump creates a vacuum in the container, thereby drawing the sample into the container without it coming into contact with the pump tubing.

Samples for volatile organic compound analysis should be collected using a bailer or by filling the Teflon® tube, by one of two methods, and allowing it to drain into the sample vials. The tubing can be momentarily attached to the pump to fill the tube with water. After the initial water is discharged through the pump head, the tubing is quickly removed from the pump and a gloved thumb placed on the tubing to stop the water from draining out. The tubing is then removed from the well and the water allowed to either gravity drain or be reversed, by the pump, into the sample vials. (Note: When reversing the pump, make sure the discharge tubing is not submerged in purge water. This will prevent introducing potentially cross-contaminated purge water into the sample.) Alternatively, the tubing can be lowered into the well the desired depth and a gloved thumb placed over the end of the tubing. This method will capture the water contained in the tubing. It can then be removed from the well and the water collected by draining the contents of the tubing into the sample vials. Under no circumstances should the sample for volatile organic compound analysis be collected from the content of any other previously filled container. All equipment should be cleaned using the procedures described in Appendix B. Also, refer to the Potable Water Supply discussion, Section 2.2, for additional information.

When sampling for metals only, it is also permissible to collect the sample directly from the pump discharge tubing after an adequate purge has been demonstrated. When collecting samples in this manner there are several considerations to be aware of. The pump head tubing (silastic, etc,) must be changed after each well and a rinsate blank must be collected of a representative piece of the pump head tubing (only one blank per investigation). Also, precautions must be taken to ensure that the end of the discharge tubing is not allowed to touch the ground or other surface to ensure the integrity of the sample collected in this manner.

Bladder Pumps

After purging has been accomplished with a bladder pump, the sample is obtained directly from the pump discharge. If the discharge rate of the pump, during purging, is too great, so as to make sample collection difficult, care should be taken to reduce the discharge rate at the onset of actual sample collection. This is necessary to minimize sample disturbance, particularly with respect to samples collected for volatile organic compounds analysis.

Bailers

When bailing, new plastic sheeting should be placed on the ground around each well to provide a clean working area. New nylon rope should be attached to the bailer via a Teflon® coated stainless steel wire. This coated wire is semi-permanently attached to the bailer and is decontaminated for reuse as the bailer is cleaned. The bailer should be gently immersed in the top of the water column until just filled. At this point, the bailer should be carefully removed and the contents emptied into the appropriate sample containers.

7.3.4 Sample Preservation

Immediately after collection, all samples requiring preservation must be preserved with the appropriate preservative. Consult Appendix A for the correct preservative for the particular analytes of interest. All samples preserved using a pH adjustment (except VOCs) must be checked, using pH strips, to ensure that they were adequately preserved. This is done by pouring a small volume of sample over the strip. Do not place the strip in the sample.

7.3.5 Special Sample Collection Procedures

Trace Organic Compounds and Metals

Special sample handling procedures should be instituted when trace contaminant samples are being collected. All sampling equipment, including pumps, bailers, water level measurement equipment, etc., which comes into contact with the water in the well must be cleaned in accordance with the cleaning procedures described in Appendix B. Pumps should not be used for sampling, unless the interior and exterior portions of the pump and the discharge hoses are thoroughly cleaned. Blank samples should be collected to determine the adequacy of cleaning prior to collection of any sample using a pump.

Order of Sampling with Respect to Analytes

In many situations when sampling permanent or temporary monitoring wells, an adequate purge, with respect to turbidity, is often difficult to achieve. Removal and insertion of equipment after the purge and prior to actual sampling may negate the low turbidities achieved during purging and elevate turbidity back to unacceptable levels. For this reason, it is important that special efforts be used to minimize any disturbance of the water column after purging and to collect the aliquot for metals first.

Filtering

As a standard practice, ground water samples will not be filtered for routine analysis. Filtering will usually only be performed to determine the fraction of major ions and trace metals passing the filter and used for flow system analysis and for the purpose of geochemical speciation modeling. Filtration is not allowed to correct for improperly designed or constructed monitoring wells, inappropriate sampling methods, or poor sampling technique.

When samples are collected for routine analyses and are filtered, such as under conditions of excessive turbidity, both filtered and non-filtered samples will be submitted for analyses. Samples for organic compounds analysis should not be filtered. Prior to filtration of the ground water sample for any reason other than geochemical speciation modeling, the following criteria must be demonstrated to justify the use of filtered samples for inorganic analysis:

1. The monitoring wells, whether temporary or permanent, have been constructed and developed in accordance with Section 6.

2. The ground water samples were collected using sampling techniques in accordance with this section, and the ground water samples were analyzed in accordance with US-EPA approved methods.

3. Efforts have been undertaken to minimize any persistent sample turbidity problems. These efforts may consist of the following:

    - Redevelopment or re-installation of permanent ground water monitoring wells.

- Implementation of low flow/low stress purging and sampling techniques.

4. Turbidity measurements should be taken during purging and sampling to demonstrate stabilization or lack thereof. These measurements should be documented in the field notes.

If the ground water sample appears to have either a chemically-induced elevated turbidity, such as would occur with precipitate formation, or a naturally elevated colloid or fine, particulate-related turbidity, filtration will not be allowed.

If filtration is necessary for purposes of geochemical modeling or other **pre-approved** cases, the following procedures are suggested:

1. Accomplish in-line filtration through the use of disposable, high capacity filter cartridges (barrel-type) or membrane filters in an in-line filter apparatus. The high capacity, barrel-type filter is preferred due to the higher surface area associated with this configuration. If a membrane filter is utilized, a minimum diameter of 142 mm is suggested.

2. Use a 5 µm pore-size filter for the purpose of determining the colloidal constituent concentrations. A 0.1 µm pore-size filter should be used to remove most non-dissolved particles.

3. Rinse the cartridge or barrel-type filter with 500 milliliters of the solute (ground water to be sampled) prior to collection of sample. If a membrane filter is used, rinse with 100 milliliters of solute prior to sample collection.

Potential differences could result from variations in filtration procedures used to process water samples for the determination of trace element concentrations. A number of factors associated with filtration can substantially alter "dissolved" trace element concentrations; these include filter pore size, filter type, filter diameter, filtration method, volume of sample processed, suspended sediment concentration, suspended sediment grain-size distribution, concentration of colloids and colloidally-associated trace elements, and concentration of organic matter. Therefore, consistency is critical in the comparison of short-term and long-term results. Further guidance on filtration may be obtained from the following: 1) Metals in Ground Water: Sampling Artifacts and Reproducibility (3); 2) Filtration of Ground Water Samples for Metals Analysis (4); and 3) Ground Water Sampling - A Workshop Summary (5).

Bacterial Sampling

Whenever wells (normally potable wells) are sampled for bacteriological parameters, care must be taken to ensure the sterility of all sampling equipment and all other equipment entering the well. Further information regarding bacteriological sampling is available in the following: 1) Sampling for Organic Chemicals and Microorganisms in the Subsurface (6); 2) Handbook for Evaluating Water Bacteriological Laboratories (7); and 3) Microbiological Methods for Monitoring the Environment, Water and Wastes (8).

7.3.6 Specific Sampling Equipment Quality Assurance Techniques

All equipment used to collect ground water samples shall be cleaned as outlined in Appendix B and repaired, if necessary, before being stored at the conclusion of field studies. Cleaning procedures utilized in the field (Appendix B), or field repairs shall be thoroughly documented in field records.

7.3.7 Auxiliary Data Collection

During ground water sample collection, it is important to record a variety of ground water related

data. Included in the category of auxiliary data are water level measurements, well volume determinations, pumping rates during purging, and occasionally, drillers or boring logs. This information should be documented in the field records. Well volume determinations are described in Section 7.2.1.

Water Level Measurements

Water table measurements from the top of the well casings (referenced to National Geodetic Vertical Datum) in permanent wells, and ground surface elevations in temporary wells should be made to assist in determining the general direction of ground water flow and gradient. The methodology to be used to determine well water levels are given in Section 15.5. Tracer dyes and radioactive and thermal detection methods can be used to determine direction and velocities of flow (9). Also, a study of the general topography and drainage patterns will generally indicate direction of ground water flow.

The ground surface elevation and top of casing elevation at the wells should be determined by standard engineering survey practices as outlined in Section 15.

Well Pumping Rate - Bucket/Stop Watch Method

The pumping rate for a pump can be determined by collecting the discharge from the pump in a bucket of known volume and timing how long it takes to fill the bucket. The pumping rate should be in gallons per minute. This method shall be used primarily with pumps with a constant pump rate, such as gasoline-powered or electric submersible pumps. Care should be taken when using this method with some battery-powered pumps. As the batteries' charge decreases, the pump rate also decreases so that pumping rate calculations using initial, high pump rates may be erroneously high. If this method is used with battery-powered pumps, the rate should be re-checked frequently to ensure accuracy of the pumping rate calculations.

7.4 References

1. US EPA., RCRA Ground-Water Monitoring: Draft Technical Guidance, November 1992, Office of Solid Waste, EPA/530-R-93-001.

2. US EPA., Test Methods for Evaluating Solid Waste, Volume II: Field Manual, Physical/Chemical Methods, November 1986, Office of Solid Waste and Emergency Response, SW-846.

3. Puls, Robert W., Don A. Clark, and Bert Bledsoe. Metals in Ground Water: Sampling Artifacts and Reproducibility. *Hazardous Waste and Hazardous Materials* 9(2): 149-162 (1992).

4. Puls, Robert W., and Michael J. Barcelona. Filtration of Ground Water Samples for Metals Analysis. *Hazardous Waste and Hazardous Materials* 6(4): 385-393 (1989).

5. Ground Water Sampling - A Workshop Summary. Proceedings from the Dallas, Texas November 30 - December 2, 1993 Workshop. US EPA Office of Research and Development Robert S. Kerr Environmental Research Laboratory. EPA/600/R-94/205, January 1995.

6. Sampling for Organic Chemicals and Microorganisms in the Subsurface, US EPA, EPA-600/2-77/176 (1977).

7. Handbook for Evaluating Water Bacteriological Laboratories, US EPA, ORD, Municipal Environmental Research Laboratory, Cincinnati, Ohio, 1975.

8. Microbiological Methods for Monitoring the Environment, Water and Wastes, US EPA, ORD, Environmental Monitoring and Support Laboratory, Cincinnati, Ohio, 1978.

9. "Groundwater", Section 18, USDA-SCS National Engineering Handbook, United States Department of Agriculture, Soil Conservation Service, 1978.

SECTION 8
SAMPLING OF POTABLE WATER SUPPLIES

PERFORMANCE OBJECTIVES:

- To collect a sample representative of the drinking water supply.
- To reduce the bias of system related variables (pumps, piping, holding tanks, etc.).

8.1 Introduction

The same sampling techniques used for wastewater, ground water, surface water, etc., (including thorough documentation of location, date, time, etc.) are to be used during potable water supply sampling. There are certain additional procedures which apply.

8.2 Sampling Site Selection

The following should be considered when choosing the location to collect a potable water sample:

- Taps selected for sample collection should be supplied with water from a service pipe connected directly to a water main in the segment of interest.
- Whenever possible, choose the tap closest to the water source, and prior to the water lines entering the residence, office, building, etc., and also prior to any holding or pressurization tanks.
- The sampling tap must be protected from exterior contamination associated with being too close to a sink bottom or to the ground. Contaminated water or soil from the faucet exterior may enter the bottle during the collection procedure since it is difficult to place a bottle under a low tap without grazing the neck interior against the outside faucet surface. If the tap is too close to the ground for direct collection into the appropriate container, it is acceptable to use a smaller (clean) container to transfer sample to a larger container. The smaller container should be made of glass or stainless steel.
- Leaking taps that allow water to discharge from around the valve stem handle and down the outside of the faucet, or taps in which water tends to run up on the outside of the lip, are to be avoided as sampling locations.
- Disconnect any hoses, filters, or aerators attached to the tap before sampling. These devices can harbor a bacterial population if they are not routinely cleaned or replaced when worn or cracked.
- Taps where the water flow is not constant should be avoided because temporary fluctuation in line pressure may cause clumps of microbial growth that are lodged in a pipe section or faucet connection to break loose. A smooth flowing water stream at moderate pressure without splashing should be used. The sample should be collected without changing the water flow. It may be appropriate to reduce the flow for the volatile organic compounds aliquot to minimize sample agitation.

SECTION 10
SURFACE WATER SAMPLING

PERFORMANCE OBJECTIVE:

- To collect a representative sample of the surface water of interest.

10.1 Introduction

Surface water sampling techniques and equipment are designed to minimize effects on the chemical and physical integrity of the sample. If the guidance provided in this section is followed, a representative sample of the surface water should be obtained.

The physical location of the investigator when collecting a sample may dictate the equipment to be used. If surface water samples are required, direct dipping of the sample container into the stream is desirable. This is possible, however, only from a small boat, a pier, etc., or by wading in the stream. Wading, however, may cause the re-suspension of bottom deposits and bias the sample. Wading is acceptable if the stream has a noticeable current (is not impounded), and the samples are collected while facing upstream. If the stream is too deep to wade, or if the sample must be collected from more than one water depth, or the sample must be collected from a bridge, etc., supplemental sampling equipment must be used.

10.2 Surface Water Sampling Equipment

10.2.1 Dipping Using Sample Container

A sample may be collected directly into the sample container when the surface water source is accessible by wading or other means. The sampler should face upstream and collect the sample without disturbing the sediment. The surface water sample should always be collected prior to the collection of a sediment sample at the same location. The sampler should be careful not to displace the preservative from a pre-preserved sample container such as the 40-ml VOC vial.

10.2.2 Scoops

Stainless steel scoops are useful for reaching out into a body of water to collect a surface water sample. The scoop may be used directly to collect and transfer a surface water sample to the sample container, or it may be attached to an extension in order to access the selected sampling location. The scoop is one of the most versatile sampling tools available to the field investigator.

10.2.3 Peristaltic Pumps

Another device that can be effectively used to sample a water column, such as a shallow pond, is the peristaltic pump/vacuum jug system. The use of a metal conduit to which the tubing is attached, allows for the collection of a vertical sample (to about a 25 foot depth) which is representative of the water column. Commercially available pumps vary in size and capability, with some being designed specifically for the simultaneous collection of multiple water samples.

10.2.4 Discrete Depth Samplers

When discrete samples are desired from a specific depth, and the parameters to be measured do not require a Teflon® coated sampler, a standard Kemmerer or Van Dorn sampler may be used. The Kemmerer sampler is a brass cylinder with rubber stoppers that leave the ends of the sampler open while being lowered in a vertical position, thus allowing free passage of water through the cylinder. The Van Dorn sampler is plastic and is lowered in a horizontal position. In each case, a messenger is sent down a rope when the sampler is at the designated depth, to cause the stoppers to close the cylinder, which is then raised. Water is removed through a valve to fill respective sample containers. With a rubber tube attached to the valve, dissolved oxygen sample bottles can be properly filled by allowing an overflow of the water being collected. With multiple depth samples, care should be taken not to stir up the bottom sediment and thus bias the sample.

When metals and organic compounds parameters are of concern, then a double check valve, stainless steel bailer or Kemmerer sampler should be used to collect the sample.

10.2.5 Bailers

Teflon® bailers may also be used for surface water sampling, if the study objectives do not necessitate a sample from a discrete interval of the water column. A closed top bailer with a bottom check-valve is sufficient for many studies. As the bailer is lowered through the water column, water is continually displaced through the bailer until the desired depth is reached, at which point the bailer is retrieved. This technique may not be successful where strong currents are found.

10.2.6 Buckets

A plastic bucket can be used to collect samples for in-situ analyses, e.g., pH, temperature and conductivity. However, the bucket should be rinsed twice with the sample water prior to collection of the sample.

SECTION 11
SEDIMENT SAMPLING

PERFORMANCE OBJECTIVE:

- To collect a representative sample of sediment from a surface water body.

11.1 Introduction

Sampling techniques and equipment are designed to minimize effects on the chemical and physical integrity of the sample. If the guidance in this section is followed, a representative sample of the sediment should be obtained.

The physical location of the investigator when collecting a sample may dictate the equipment to be used. Wading is the preferred method for reaching the sampling location, particularly if the stream has a noticeable current (is not impounded). However, wading may disrupt bottom sediments causing biased results. If the stream is too deep to wade, the sediment sample may be collected from a boat or from a bridge.

To collect a sediment sample from a water body, a variety of methods can be used:

- Dredges (Peterson, Eckman, Ponar),
- Coring (tubes, augers)
- Scoops (BMH-60, standard scoop) and spoons
- Vibracore® (Electronic Vibratory Core Tube Driver)

Regardless of the method used, precautions should be taken to insure that the sample collected is representative of the water body. These methods are discussed in the following paragraphs.

11.2 Sediment Sampling Equipment

11.2.1 Scoops and Spoons

If the surface water body is wadeable, the easiest way to collect a sediment sample is by using a stainless steel scoop or spoon. The sampling method is accomplished by wading into the surface water body and while facing upstream (into the current), scooping the sample along the bottom of the surface water body in the upstream direction. Excess water may be removed from the scoop or spoon. However, this may result in the loss of some fine particle size material associated with the bottom of the surface water body. Care should be taken to minimize the loss of the fine particle sizes. Aliquots of the sample are then placed in a glass pan and homogenized according to the quartering method described in Section 5.13.8 of this SOP.

In surface water bodies that are too deep to wade, but less than eight feet deep, a stainless steel scoop or spoon attached to a piece of conduit can be used either from the banks if the surface water body is narrow or from a boat. Again, care should be taken to minimize the loss of the fine particle sizes. The sediment is placed into a glass pan and mixed according to Section 5.13.8 of this SOP.

If the surface water body has a significant flow and is too deep to wade, a BMH-60 sampler (scoop) may be used. The BMH-60 is not particularly efficient in mud or other soft substrates because its weight will cause penetration to deeper sediments, thus missing the most recently deposited material at the sediment water interface. It is also difficult to release secured samples in an undisturbed fashion that would readily permit subsampling. The BMH-60 may be used provided that caution is exercised by only taking subsamples that have not been in contact with the metal walls of the sampler.

11.2.2 Dredges

For routine analyses, the Peterson dredge can be used when the bottom is rocky, in very deep water, or when the stream velocity is high. The dredge should be lowered very slowly as it approaches bottom, since it can displace and miss fine particle size sediment if allowed to drop freely.

The Eckman dredge has only limited usefulness. It performs well where the bottom material is unusually soft, as when covered with organic sludge or light mud. It is unsuitable, however, for sandy, rocky, and hard bottoms and is too light for use in streams with high velocities. It should not be used from a bridge that is more than a few feet above the water, because the spring mechanism which activates the sampler can be damaged by the messenger if dropped from too great a height.

The Ponar dredge is a modification of the Peterson dredge and is similar in size and weight. It has been modified by the addition of side plates and a screen on the top of the sample compartment. The screen over the sample compartment permits water to pass through the sampler as it descends thus reducing turbulence around the dredge. The Ponar dredge is easily operated by one person in the same fashion as the Peterson dredge. The Ponar dredge is one of the most effective samplers for general use on all types of substrates.

The "mini" Ponar dredge is a smaller, much lighter version of the Ponar dredge. It is used to collect smaller sample volumes when working in industrial tanks, lagoons, ponds, and shallow water bodies. It is a good device use when collecting sludge and sediment containing hazardous constituents because the size of the dredge makes it more amenable to field cleaning.

11.2.3 Coring

Core samplers are used to sample vertical columns of sediment. They are particularly useful when a historical picture of sediment deposition is desired since they preserve the sequential layering of the deposit, and when it is desirable to minimize the loss of material at the sediment-water interface. Many types of coring devices have been developed depending on the depth of water from which the sample is to be obtained, the nature of the bottom material, and the length of core to be collected. They vary from hand push tubes to electronic vibrational core tube drivers.

Coring devices are particularly useful in pollutant monitoring because turbulence created by descent through the water is minimal, thus the fines of the sediment-water interface are only minimally disturbed; the sample is withdrawn intact permitting the removal of only those layers of interest; core liners manufactured of glass or Teflon® can be purchased, thus reducing possible sample contamination; and the samples are easily delivered to the lab for analysis in the tube in which they were collected.

The disadvantage of coring devices is that a relatively small surface area and sample size is obtained often necessitating repetitive sampling in order to obtain the required amount of material for analysis.

Because it is believed that this disadvantage is offset by the advantages, coring devices are recommended in sampling sediments for trace organic compounds or metals analyses.

In shallow, wadeable waters, the direct use of a core liner or tube manufactured of Teflon®, plastic, or glass is recommended for the collection of sediment samples. (Plastic tubes are principally used for collection of samples for physical parameters such as particle size analysis). Their use can also be extended to deep waters when SCUBA diving equipment is utilized. Teflon® or plastic are preferred to glass since they are unbreakable which reduces the possibility of sample loss. Stainless steel push tubes are also acceptable and provide a better cutting edge and higher strength than Teflon®. The use of glass or Teflon® tubes eliminates any possible metals contamination from core barrels, cutting heads, and retainers. The tube should be approximately 12 inches in length if only recently deposited sediments (8 inches or less) are to be sampled. Longer tubes should be used when the depth of the substrate exceeds 8 inches. Soft or semi--consolidated sediments such as mud and clays have a greater adherence to the inside of the tube and thus can be sampled with larger diameter tubes. Because coarse or unconsolidated sediments such as sands and gravel tend to fall out of the tube, a small diameter is required for them. A tube about two inches in diameter is usually the best size. The wall thickness of the tube should be about 1/3 inch for Teflon®, plastic, or glass. The inside wall may be filed down at the bottom of the tube to provide a cutting edge and facilitate entry of the liner into the substrate.

Caution should be exercised not to disturb the bottom sediments when the sample is obtained by wading in shallow water. The core tube is pushed into the substrate until four inches or less of the tube is above the sediment-water interface. When sampling hard or coarse substrates, a gentle rotation of the tube while it is being pushed will facilitate greater penetration and decrease core compaction. The top of the tube is then capped to provide a suction and reduce the chance of losing the sample. A Teflon® plug or a sheet of Teflon® held in place by a rubber stopper or cork may be used. After capping, the tube is slowly extracted with the suction and adherence of the sediment keeping the sample in the tube. Before pulling the bottom part of the core above the water surface, it too should be capped.

In deeper, non-wadeable water bodies, sediment cores may be collected from a bridge or a boat using different coring devices such as Ogeechee Sand Pounders®, gravity cores and vibrating coring devices. All three devices utilize a core barrel with a core liner tube system. The core liners can be removed from the core barrel and replaced with a clean core liners, as needed, after each sample. Liners are made of either stainless steel, Teflon or plastic. The type of core liner, and its composition, to collect sediment cores should be based on the contaminants to be evaluated.

Ogeechee Sand Pounders® and gravity Cores are hand held devices that use a standard size 2" core barrel. The core tube and liner are interchangeable between the two units. The Ogeechee® uses a slide hammer mechanism attached to the core head that allows the sampler to pound the core tube into the sediment. The Ogeechee® is good for sandy more consolidated sediments. The gravity core uses a guiding fin mechanism with a built in gravity type check valve. The gravity core is placed in the water and released at the surface to free fall to the bottom. The fin mechanism keeps the core tube upright and free from spinning in the water column as it descends. The core tube stabs the bottom forcing the sediment into the tube. Both coring devices are equipped with removable nose pieces on the core barrel and disposable core catchers for the liner tubes. The core catchers are designed to cap the liner tube to avoid loss of the core when retrieved from the bottom. The gravity core can be modified to attach a slide hammer mechanism, similar to the Ogeechee®, to further pound the core into the sediment further if deemed necessary.

Sediment cores collected from most hand operated coring devices can suffer from either spreading or compaction when driven into the sediment, depending on the softness of the sediment. Spreading occurs s when the sediment is pushed or moved to the side during the advancement of the core tube. Compaction

is when the sediment is being pushed downward as the core tune is advanced. Both phenomenon can effect the physical integrity of core sample. For instance, the core tube may be advanced through the sediment to a depth of 36 inches, but upon examination of the recovered core there is only 24 inches of sediment in the core tube.

Vibratory Core Tube Drivers (Vibracore®) facilitates sampling of soft or loosely sedimented saturated soil deposits with minimal compaction or spreading using lined or unlined core tubes. It is designed for use with core tubes having nominal diameters ranging from 2" to 4" OD. The Vibracore® uses an electric motor to create vibration ranges from approximately 6,000 RPM to 8,000 RPM (100 Hz to 133 Hz) depending on the resistance afforded by the soil; the greater the resistance, the higher the frequency. The actual vibrational displacement of the Vibracore® is on the order of a few tens of thousandths of an inch, so essentially no mixing of the sediment within the tube occurs. The vibrational energy tends to re-orient the soil particles at the lower end of the core tube, causing them to move out of the way of the advancing wall of the core tube and into a more efficient (i.e. denser) packing. This action advances the core tube with minimal compaction of the sediment.

When extensive core sampling is required, such as a cross-sectional examination of a streambed (with an objective of profiling both the physical and chemical contents of the sediment), a whole core must be collected. A strong coring tube such as one made from aluminum, steel or stainless steel is needed to penetrate the sediment and underlying clay or sands. A coring device can be used to collect an intact sediment core from water bodies that have soft bottoms which allows several inches of penetration. It is recommended that the corer have a check valve built into the driving head which allows water and air to escape from the cutting core, thus creating a partial vacuum which helps to hold the sediment core in the tube. The corer is attached to a standard auger extension and handle, allowing it to be corkscrewed into the sediment from a boat or while wading. The coring tube is easily detached and the intact sediment core is removed with an extraction device.

Before extracting the sediment from the coring tubes, the clear supernatant above the sediment-water interface in the core should be decanted from the tube. This is accomplished by simply turning the core tube to its side, and gently pouring the liquid out until fine sediment particles appear in the waste liquid. The loss of some of the fine sediments usually occurs with this technique.

11.3 Special Considerations for Collection of Samples for Volatile Organic Compounds

Samples collected for volatile organic compound analyses must be collected prior to any sample homogenization, as described in Section 5.13.8. Regardless of the method used for collection, the aliquot for volatile organic compound analyses must be collected directly from the sampling device, to the extent practical, using equipment and methods described in Section 12.4. The aliquot should be collected directly from the device, such as a hand auger bucket or scoop, if possible. If a device such as a dredge is used, the aliquot should be collected after the sample is placed in the mixing container prior to mixing.

In some cases, the sediment may be soft and not lend itself to collection by plunging Encore or syringe samplers into the sample matrix. In these cases, it is appropriate to open the sample device, i.e., the Encore barrel or syringe, prior to sample collection, and to carefully place the sediment in the device, filling it fully with the required volume of sample.

SECTION 12
SOIL SAMPLING

PERFORMANCE OBJECTIVES:

To collect a soil sample that is representative of conditions as they exist at the site:

- By selecting the appropriate sampling device(s);
- By taking measures to avoid introducing contamination as a result of poor sampling and/or handling technique;
- By reducing the potential of cross contamination between samples.

12.1 Introduction

Prior to conducting a soil sampling investigation, a sampling strategy should be developed based on the objectives of the investigation (Section 5.5 of this SOP contains a discussion of soil sampling strategies). After developing a soil sampling strategy, the appropriate equipment and techniques must be used to conduct the investigation. This section discusses the various soil sample collection methods, sample handling, and available sampling equipment which has been shown to be technically appropriate.

12.2 Equipment

Selection of equipment is usually based on the depth of the samples to be collected, but it is also controlled to a certain extent by the characteristics of the soil. Manual techniques and equipment such as hand augers are usually used for collecting surface or shallow, subsurface soil samples. Power operated equipment is usually associated with deep sampling but can also be used for shallow sampling when the bore hole begins to collapse or when the soil is so tight that manual sampling is not practical.

12.2.1 Precautions for Trace Contaminant Soil Sampling

All soil sampling equipment used for sampling trace contaminants should be constructed of inert materials such as stainless steel where possible. Pans used for mixing should be made of Pyrex® (or equivalent) glass. In no case will chromium, cadmium, galvanized, or plated equipment be used for soil sampling when trace levels of inorganic contaminants are of concern. Similarly, no painted or plastic equipment may be used where trace levels of organic contaminants are of concern. Paint, scaly or heavy rust and grease must be removed before use, most often by sandblasting the equipment. Ancillary equipment such as auger flights may be constructed of other materials since this equipment does not come in direct contact with the samples. The procedures outlined in Section 5.13.7 should be followed.

The procedures outlined in Section 5.13.7 should be followed.

12.3 Sampling Methodology

This discussion of soil sampling methods reflects both the equipment used to collect the sample as well as how the sample is handled and processed after retrieval. Selection of equipment is usually based on the depth of sampling, but it is also controlled, to a certain extent, by the characteristics of the material. Simple, manual techniques and equipment, such as hand augers, are usually selected for surface or shallow, subsurface soil sampling. As the depth of the sampling interval increases, some type of powered sampling equipment is usually needed to overcome the friction induced by soil resistance and depth. The following is an overview of the various sample collection methods employed over three general depth classifications: surface, shallow subsurface, and deep subsurface. Any of the deep collection methods described may be used to collect samples from the shallower intervals.

12.3.1 Manual Collection Techniques and Equipment

These methods are used primarily to collect surface and shallow subsurface soil samples. Surface soils are generally classified as soils between the ground surface and 6 to 12 inches below ground surface. The shallow subsurface interval may be considered to extend from approximately 12 inches below ground surface to a site-specific depth at which sample collection using manual methods becomes impractical.

Surface Soils

Surface soils may be collected with a wide variety of equipment, if constructed of appropriate materials. Spoons or hand-augers are typically used to collect surface soil samples.

If a thick, matted root zone is encountered at or near the surface, it should be removed before the sample is collected. The collected soil is placed in a pan, thoroughly mixed, (Section 5.13.8), and placed in the appropriate sample container(s). Section 12.4 contains specific procedures for collecting and handling soil samples for volatile organic compounds analysis.

Shallow Subsurface Soils

Hand augers are the most common equipment used to collect shallow subsurface samples. Typically, 4-inch auger-buckets with cutting heads are pushed and twisted into the ground, then removed as the buckets are filled. The auger holes are advanced one bucket at a time. The practical depth of investigation using a hand-auger depends upon the soil properties. In sand, augering is usually easily performed, but the depth of collection is limited to the depth at which the sand begins to flow. At this depth, the bore hole will usually collapse and cannot be advanced. Deeper sampling must be accomplished using power equipment. Hand-augering may also be of limited use in tight clays or cemented sands. Regardless of the soil type, at depths approaching 20 feet sidewall friction may become so severe that power equipment must be used.

Power augers such as the Little Beaver® may be used to advance the borehole where hand augers are impractical. Power augers are a sampling aid, not a sampling device, and can be used to advance a borehole to approximately 20 feet, depending upon soil conditions.

If power augers are used to advance the borehole, care must be taken that exhaust fumes, gasoline, and\or oil do not contaminate the borehole. The soil sample may then be collected using a hand auger. After the sample has been collected, the borehole may again be advanced (if necessary), and additional samples collected. The auger bucket must be replaced between samples with a properly decontaminated auger

bucket. When a new borehole is advanced, the entire hand auger assembly must be replaced with a properly decontaminated hand auger assembly.

If the borehole is advanced using a hand auger, upon reaching the desired sampling depth replace the bucket with a properly decontaminated bucket. The sample may then be collected. After the sample has been collected, the borehole may be advanced (if necessary) with the bucket that was used to collect the sample. Each sample must be collected using a properly decontaminated bucket.

Before the soil is placed in a pan, it is necessary to remove the top several inches of soil to minimize the possibility of cross-contamination of the sample from fall-in of material from the upper portions of the hole. Once the soil is placed in a pan, it is thoroughly mixed, (Section 5.13.8), and placed in the appropriate sample container(s). Section 12.4 contains specific procedures for collecting and handling soil samples for volatile organic compounds analysis.

12.3.2 Powered Equipment

Powered equipment may be used to acquire soil samples from any depth (surface, shallow subsurface, and deep subsurface). When power equipment is used to advance the borehole and collect the sample, care must be taken that exhaust fumes, gasoline, and\or oil do not contaminate the borehole and the sample. Among the common types of powered equipment used to collect subsurface soil samples are split-spoon samplers driven with a drill rig drive-weight assembly or pushed using drill rig hydraulics; continuous split-spoon samplers; direct-push rigs; and back-hoes. The use of each of these is described below.

Drill Rigs

Drill rigs offer the capability of collecting soil samples from greater depths. For all practical purposes, the depth of investigation achievable by this method is controlled only by the depth of soil overlying bedrock, which may be in excess of 100 feet.

Split-spoon samplers are usually driven either inside a hollow-stem auger or an open borehole after the auger(s) have been temporarily removed. The spoon is driven with a 140-pound hammer through a distance of up to 24 inches and removed.

Continuous split-spoon samplers may be used to obtain five-foot long, continuous samples approximately 3 to 5 inches in diameter. These devices are placed inside a five-foot section of hollow-stem auger and advanced with the auger during drilling. As the auger advances, the central core of soil moves into the sampler and is retained.

Before the soil is placed in a pan, it is necessary to remove the top several inches of soil to minimize the possibility of cross-contamination of the sample from fall-in of material from the upper portions of the hole. Once the soil is placed in a pan, it is thoroughly mixed, (Section 5.13.8), and placed in the appropriate sample container(s). Section 12.4 contains specific procedures for collecting and handling soil samples for volatile organic compounds analysis.

Direct Push Rigs

This method uses a standard split-spoon modified with a locking tip which keeps the spoon closed during the sampling push. Upon arrival at the desired depth, the tip is remotely released and the push

continued. During the push, the released tip moves freely inside of the spoon as the soil core displaces it. This technique is particularly beneficial at highly contaminated sites, because no cuttings are produced. The push rods are generally retrieved with very little residue resulting in minimal exposure to sampling personnel and reduced IDW.

Before the soil is placed in a pan, it is necessary to remove the top several inches of soil to minimize the possibility of cross-contamination of the sample from fall-in of material from the upper portions of the hole. Once the soil is placed in a pan, it is thoroughly mixed, (Section 5.13.8), and placed in the appropriate sample container(s). Section 12.4 contains specific procedures for collecting and handling soil samples for volatile organic compounds analysis.

Geoprobe® Large Bore Soil Sampler

Geoprobe® offers several tools for soil sample collection. Among these are the Macro-Core® Soil Sampler and the large bore and dual tube soil sampling systems. The Environmental Investigations Branch utilizes the large bore soil sampling system for collection of surface and subsurface soil samples. The selection of this system does not preclude the use of the other systems at a future time.

The Large Bore sampler is a solid barrel, piston sealed, direct push device for collecting discrete interval samples of unconsolidated materials at depth. The sampler is approximately 30-inches (762 mm) long and has a 1.5-inch (38 mm) outside diameter. The Large Bore sampler is capable of recovering a discrete sample core 22 inches x 1.0 inches (559 mm x 25 mm) contained inside a removable liner. Sample volume measures up to 283 ml. The liner is a 24-inch long by 1.15-inch OD (610 mm x 29 mm) removable/replaceable thin-walled tube that fits inside the Large Bore sample tube. Liners facilitate retrieval of the sample and may be used for storage, when applicable. The Large Bore soil sampler is pushed with 1.25-inch diameter probe rod.

The following is a step-by-step description of the components and procedures used to collect a soil sample with the Large Bore sampler.

Assembly of Large Bore Sampler

1. Select a liner tube and push on to cutting shoe (one end of liner should be slightly flared, push this end on to shoe).

2. Insert end of tube opposite cutting shoe into sample tube and screw cutting shoe firmly into sample tube.

3. Thread piston tip onto piston rod then run piston assembly through the end of the sample tube opposite the cutting shoe, seating the piston tip in the cutting shoe. There should be a short section of exposed piston rod sticking out of sample tube.

4. Place drive head over exposed end of piston rod and thread into end of sample tube.

5. Install piston stop-pin in top of drive head. This retains the piston rod assembly during the push.

6. The Large Bore sampler is now fully assembled and ready for sample collection.

Sample Collection Using Large Bore Sampler

1. Attach assembled Large Bore sampler to end of probe rod.

2. Attach drive cap to probe rod and push rod into ground.

3. Add additional rods to push Large Bore sampler to target sampling depth.

4. At the desired target sampling depth, remove the drive cap to access inside of probe rod.

5. Couple extension rods and extension rod handle together and insert into probe rod. Using handle, turn the extension rods inside probe rod. This should engage the piston-stop pin and remove it from the drive head attached to the top of the sample tube. Retrieve extension rods and attached piston-stop pin.

6. Add addition probe rod, if required, reattach drive cap to top of probe rod and push probe rod and Large Bore sampler 24 inches to fill sampler.

7. Attach pull cap and retrieve tool string.

8. When retrieved, remove the piston rod, with piston tip, and the drive head.

9. Using the Large Bore wrench, unscrew the cutting shoe from the down-hole end of the sample tube.

10. Remove the cutting shoe and attached liner and sample from sample tube.

11. Sample has now been collected and is contained in the liner. At this time, it can be sub-sampled, per analytical requirements.

Special Considerations for Large Bore Soil Sampling

Liner Use and Material Selection

Due to the mode of operation, the Large Bore soil sampler must be used with a liner. Liners are available in the following materials: stainless steel, brass, cellulose acetate butyrate (CAB) and Teflon®. For the majority of environmental investigations conducted by EIB, either CAB or Teflon® liners are used. If samples are collected for organic compound analyses, Teflon® liners are required. CAB liners may be used if metals or other inorganic constituents are the object of the investigation.

Sample Orientation

When the liners and associated sample are removed from the sample tubes, it is important to maintain the proper orientation of the sample. This is particularly important when multiple sample depths are collected from the same push. It is also important to maintain proper orientation to define precisely what depth an aliquot was collected from. Maintaining proper orientation is typically accomplished using vinyl end caps. Convention is to place red caps on the top of liner and black caps on the bottom to maintain the proper sample orientation. Orientation can also be indicated by marking on the exterior of the liner with a permanent marker.

Back-Hoes

Back-hoes may be utilized in the collection of shallow subsurface soil samples. Samples may be collected directly from the bucket, or the trench wall (subject to applicable safety procedures).

The bucket must be free of rust, grease, and paint. Only soil which has not been in contact with the bucket may be sampled, unless the bucket is cleaned according to the procedures described in Appendix B of this SOP.

Trenches offer the capability of collecting samples from very specific intervals and allow visual correlation with vertically and horizontally adjacent material. The sample should be collected without entering the trench itself, if possible. To collect the sample without entering the trench, use a stainless steel scoop attached to rigid electrical conduit with a scoop bracket to "dress" (remove surface layer of soil smeared on the trench wall as the bucket passed) the wall of the trench. Replace the scoop with a decontaminated scoop. Collect the soil.

The collected soil is placed in a pan, thoroughly mixed, (Section 5.13.8), and placed in the appropriate sample container(s). Section 12.4 contains specific procedures for collecting and handling soil samples for volatile organic compounds analysis

12.4 Soil/Sediment Sampling (Method 5035)

The following sampling protocol is recommended for site investigators assessing the extent of volatile organic compounds (VOCs) in soils and sediments at a project site. Because of the large number of options available, careful coordination between field and laboratory personnel is needed. The specific sampling containers and sampling tools required will depend upon the detection levels and intended data use. Once this information has been established, selection of the appropriate sampling procedure and preservation method best applicable to the investigation can be made.

12.4.1 Equipment

Soil\sediment for VOC analyses may be retrieved using the equipment specified in Sections 11 and 12 of this SOP. Once the soil\sediment has been obtained, the EnCore™ VOC sampler, syringes, stainless steel spatula, standard 2 oz soil VOC container, or pre-prepared 40 mL vials may be used/required for sub-sampling collection. The specific sample containers and the sampling tools required will depend upon the data quality objectives established for the site or sampling investigation. The various methods are described below.

12.4.2 Sampling Methodology - Low Concentrations

When total VOC concentrations in the soil/sediment are expected to be less than 200 μg/kg, the samples may be collected directly with the EnCore™ sampler or syringe. If using the syringes, the sample must be placed in the sample container (40 ml pre-prepared vial) immediately to reduce volatilization losses. The 40 ml vials should contain 10 ml of organic free water for an un-preserved sample or approximately 10 ml of organic free water and a preservative. It is recommended that the 40 ml vials be prepared and weighed by the laboratory (commercial sources are available which supply preserved and tared vials). When sampling directly with the EnCore™ sampler, the vial must be immediately capped.

A soil/sediment sample for VOC analysis may also be collected with conventional sampling equipment

(as described in Sections 11 and 12 of this SOP). A sample collected in this fashion must either be placed in the final sample container (EnCore™ or 40 ml pre-prepared vial) immediately or the sample may be immediately placed into an intermediate sample container with no head space. If an intermediate container (usually 2 oz. soil jar) is used, the sample must be transferred to the final sample container (EnCore™ or 40 ml pre-prepared vial) as soon as possible not to exceed 30 minutes.

NOTE: After collection of the sample into either the EnCore™ Sampler or other container, the sample must immediately be stored in an ice chest and cooled.

Soil\sediment samples may be prepared for shipping and analysis as follows:

EnCore™ Sampler - the sample may simply be capped, locked and secured in a plastic bag.

Syringe - Add about 3.7 cc (approximately 5 grams) of sample material to 40 ml pre-prepared containers. Secure the containers in a plastic bag. Do not use a custody seals on the container, place the custody seal on the plastic bag. Note: When using the syringes, it is important that no air is allowed to become trapped behind the sample prior to extrusion, as this will adversely affect the sample.

Stainless Steel Laboratory Spatulas - Add between 4.5 and 5.5 grams (approximate) of sample material to 40 ml containers. Secure the containers in a plastic bag. Do not use a custody seal on the container, place the custody seal on the plastic bag.

12.4.3 Sampling Methodology - High Concentrations

Based upon the data quality objectives and the detection level requirements, this high level method may also be used. Specifically, the sample may be packed into a single 2-oz. glass container with a screw cap and septum seal. The sample container must be filled quickly and completely to eliminate head space. Soils\sediments containing high total VOC concentrations may also be collected as described in Section 12.4.2, and preserved using 10 ml methanol.

12.4.4 Waste Samples

Collect an un-preserved sample into a single 2 – oz glass container. Handle waste samples in accordance with Section 14 of this SOP.

12.4.5 Special Techniques and Considerations

Effervescence

If low concentration samples effervesce from contact with the acid preservative, (see Sec. 12.4.2) then either a test for effervescence must be performed prior to sampling, or the investigators must be prepared to collect each sample both preserved or un-preserved as needed, or all samples must be collected un-preserved.

To check for effervescence, collect a test sample and add to a pre-preserved vial. If preservation (acidification) of the sample results in effervescence (rapid formation of bubbles) then preservation by acidification is not acceptable, and the sample must be collected un-preserved.

If effervescence occurs and only pre-preserved sample vials are available, the preservative solution may placed into an appropriate hazardous waste container and the vials triple rinsed with organic free water. An appropriate amount of organic free water, equal to the amount of preservative solution, should be placed into the vial. The sample may then be collected as an un-preserved sample. Note that the amount of organic free water placed into the vials will have to be accurately measured.

Sample Size

While this method is an improvement over earlier ones, field investigators must be aware of an inherent limitation. Because of the extremely small sample size, sample representativeness for VOC's may be reduced compared to samples with larger volumes collected for other constituents . The sampling design and objectives of the investigation should take this into consideration.

Holding Times

Sample holding times are specified in Appendix A. Field investigators should note that the holding time for an un-preserved VOC soil/sediment sample is 48 hours. Arrangements should be made to ship the soil/sediment VOC samples to the laboratory by overnight delivery the day they are collected so the laboratory may preserve and\or analyze the sample within 48 hours of collection.

Percent Moisture

Samplers must ensure that the laboratory has sufficient material to determine percent moisture in the VOC soil/sediment sample to correct the analytical results to dry weight. If other analyses requiring percent moisture determination are being performed upon the sample, these results may be used. If not, a separate sample (minimum of 2 oz.) for percent moisture determination will be required.

Safety

Methanol is a toxic and flammable liquid. Therefore, methanol must be handled with all required safety precautions related to toxic and flammable liquids. Inhalation of methanol vapors must be avoided. Vials should be opened and closed quickly during the sample preservation procedure. Methanol must be handled in a ventilated area. Use protective gloves when handling the methanol vials. Store methanol away from sources of ignition such as extreme heat or open flames. The vials of methanol should be stored in a cooler with ice at all times.

Shipping

Methanol and sodium bisulfate are considered dangerous goods, therefore shipment of samples preserved with these materials by common carrier is regulated by the U.S. Department of Transportation and the International Air Transport Association (IATA). The rules of shipment found in Title 49 of the Code of Federal Regulations (49 CFR parts 171 to 179) and the current edition of the IATA Dangerous Goods Regulations must be followed when shipping methanol and sodium bisulfate. Consult the above documents or the carrier for additional information. Shipment of the quantities of methanol and sodium bisulfate used for sample preservation falls under the exemption for small quantities. A summary of the requirements for shipping samples follows. Refer to the code for a complete review of the requirements.

1. The maximum volume of methanol or sodium bisulfate in a sample container is limited to thirty (30) mls.

2. The sample container must not be full of methanol.

3. The sample container must be stored upright and have the lid held securely in place. Note that the mechanism used to hold the cap in place must be able to be completely removed so weight is not added to the sample container, as specified in Method 5035.

4. Sample containers must be packed in a sorbent material capable of absorbing spills from leaks or breakage of the sample containers.
5. The maximum sample shuttle weight must not exceed 64 pounds.

6. The maximum volume of methanol or sodium bisulfate per shipping container is 500 mls.

7. The shipper must mark the sample shuttle in accordance with shipping dangerous goods in acceptable quantities.

8. The package must not be opened or altered until no longer in commerce.

12.4.6 Summary

The following summary table lists the options available for compliance with SW846 Method 5035. The advantages and disadvantages are noted for each option. SESD's goal is to minimize the use of hazardous material (methanol and sodium bisulfate) and minimize the generation of hazardous waste during sample collection.

OPTION	PROCEDURE	ADVANTAGES	DISADVANTAGES
1	Collect 2 - 40 mL vials with ~5 grams of sample and 1 - 2 oz., glass w/septum lid for screening and % moisture	Screening conducted by lab	Presently a 48 hour holding time for unpreserved samples
2	Collect 3 Encore™; and 1- 2 oz., glass w/septum lid for screening and % moisture	Lab conducts all preservation/preparation procedures	Presently a 48 hour holding time for preparation of samples
3	Collect 2 - 40 ml vials with 5 grams of sample and preserve w/methanol or sodium bisulfate and 1 - 2-oz., glass w/septum lid for screening and % moisture	High level VOC samples may be composited Longer holding time	Hazardous materials used in field
4	Collect 1 - 2-oz., glass w/septum lid for analysis and % moisture	Lab conducts all preservation/preparation procedures	May have significant VOC loss

VOLATILES SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/28/2005 11:59**

Sample **3617** FY **2005** Project: **05-0474**

Volatiles Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-BS-01 /
Media: SURFACE SOIL

Produced by: Hale, Sallie
Requestor:
Project Leader: AMASTERS
Beginning: 03/28/2005 14:20
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
1.2 U	UG/KG	Dichlorodifluoromethane
1.2 U	UG/KG	Chloromethane
1.2 U	UG/KG	Bromomethane
1.2 U	UG/KG	Vinyl Chloride
1.2 U	UG/KG	Chloroethane
1.2 U	UG/KG	Trichlorofluoromethane (Freon 11)
1.2 U	UG/KG	1,1-Dichloroethene (1,1-Dichloroethylene)
1.2 U	UG/KG	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)
1.2 U	UG/KG	Methylene Chloride
1.2 U	UG/KG	Methyl T-Butyl Ether (MTBE)
12 U	UG/KG	Acetone
1.2 U	UG/KG	Carbon Disulfide
1.2 U	UG/KG	Methyl Acetate
1.2 U	UG/KG	1,1-Dichloroethane
1.2 U	UG/KG	cis-1,2-Dichloroethene
1.2 U	UG/KG	2,2-Dichloropropane
6.1 U	UG/KG	Methyl Ethyl Ketone
2.4 U	UG/KG	Bromochloromethane
1.2 U	UG/KG	trans-1,2-Dichloroethene
1.7	UG/KG	Chloroform
1.2 U	UG/KG	1,2-Dichloroethane
1.2 U	UG/KG	1,1,1-Trichloroethane
1.2 U	UG/KG	Cyclohexane
1.2 U	UG/KG	1,1-Dichloropropene
1.2 U	UG/KG	Carbon Tetrachloride
1.2 U	UG/KG	Bromodichloromethane
0.46 J	UG/KG	Methyl Isobutyl Ketone
1.2 U	UG/KG	1,2-Dichloropropane
1.2 U	UG/KG	Methylcyclohexane
1.2 U	UG/KG	Dibromomethane
1.2 U	UG/KG	trans-1,3-Dichloropropene
1.2 U	UG/KG	Trichloroethene (Trichloroethylene)
1.2 U	UG/KG	Benzene
1.2 U	UG/KG	Dibromochloromethane
1.2 U	UG/KG	1,1,2-Trichloroethane
1.2 U	UG/KG	cis-1,3-Dichloropropene
2.4 U	UG/KG	Bromoform
1.2 U	UG/KG	Bromobenzene
1.2 U	UG/KG	1,1,2,2-Tetrachloroethane
1.2 U	UG/KG	Tetrachloroethene (Tetrachloroethylene)
1.2 U	UG/KG	1,3-Dichloropropane
1.2 U	UG/KG	Methyl Butyl Ketone
1.2 U	UG/KG	Toluene
1.2 U	UG/KG	Chlorobenzene
1.2 U	UG/KG	1,1,1,2-Tetrachloroethane
1.2 U	UG/KG	Ethyl Benzene
2.4 U	UG/KG	(m- and/or p-)Xylene
1.2 U	UG/KG	o-Xylene
1.2 U	UG/KG	Styrene
2.4 U	UG/KG	1,2,3-Trichloropropane
1.2 U	UG/KG	o-Chlorotoluene
1.2 U	UG/KG	p-Chlorotoluene
1.2 U	UG/KG	1,3-Dichlorobenzene
1.2 U	UG/KG	1,4-Dichlorobenzene
1.2 U	UG/KG	1,2-Dichlorobenzene
1.2 U	UG/KG	1,2-Dibromoethane (EDB)
1.2 U	UG/KG	Isopropylbenzene
1.2 U	UG/KG	n-Propylbenzene
1.2 U	UG/KG	1,3,5-Trimethylbenzene
1.2 U	UG/KG	tert-Butylbenzene
1.2 U	UG/KG	1,2,4-Trimethylbenzene
1.2 U	UG/KG	sec-Butylbenzene
1.2 U	UG/KG	p-Isopropyltoluene
1.2 U	UG/KG	n-Butylbenzene
6.1 U	UG/KG	1,2-Dibromo-3-Chloropropane (DBCP)
1.2 U	UG/KG	1,2,4-Trichlorobenzene
1.2 U	UG/KG	Hexachloro-1,3-Butadiene
1.2 U	UG/KG	1,2,3-Trichlorobenzene
10	%	% Moisture

All results below the MQL, but above the MDL reported as J.

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

VOLATILES SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/28/2005 11:30**

Sample **3618** FY **2005** Project: **05-0474**

Volatiles Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SD010 /
Media: SEDIMENT

Produced by: Hale, Sallie
Requestor:
Project Leader: AMASTERS
Beginning: 03/28/2005 10:45
Ending:

DATA REPORTED ON WET WEIGHT BASIS

RESULTS	UNITS	ANALYTE
1.6 U	UG/KG	Dichlorodifluoromethane
1.6 U	UG/KG	Chloromethane
1.6 U	UG/KG	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)
1.6 U	UG/KG	Methyl T-Butyl Ether (MTBE)
1.6 U	UG/KG	Bromomethane
1.6 U	UG/KG	Cyclohexane
1.6 U	UG/KG	Vinyl Chloride
1.6 U	UG/KG	Chloroethane
1.6 U	UG/KG	Trichlorofluoromethane (Freon 11)
1.6 U	UG/KG	1,1-Dichloroethene (1,1-Dichloroethylene)
1.6 U	UG/KG	Methylene Chloride
16 U	UG/KG	Acetone
1.6 U	UG/KG	Carbon Disulfide
1.6 U	UG/KG	Methyl Acetate
1.6 U	UG/KG	1,1-Dichloroethane
1.6 U	UG/KG	cis-1,2-Dichloroethene
1.6 U	UG/KG	2,2-Dichloropropane
8.2 U	UG/KG	Methyl Ethyl Ketone
3.3 U	UG/KG	Bromochloromethane
1.6 U	UG/KG	trans-1,2-Dichloroethene
1.6 U	UG/KG	Chloroform
1.6 U	UG/KG	1,2-Dichloroethane
1.6 U	UG/KG	1,1,1-Trichloroethane
1.6 U	UG/KG	1,1-Dichloropropene
1.6 U	UG/KG	Carbon Tetrachloride
1.6 U	UG/KG	Bromodichloromethane
1.6 U	UG/KG	Methyl Isobutyl Ketone
1.6 U	UG/KG	1,2-Dichloropropane
1.6 U	UG/KG	Methylcyclohexane
1.6 U	UG/KG	Dibromomethane
1.6 U	UG/KG	trans-1,3-Dichloropropene
1.6 U	UG/KG	Trichloroethene (Trichloroethylene)
1.6 U	UG/KG	Benzene
1.6 U	UG/KG	Dibromochloromethane
1.6 U	UG/KG	1,1,2-Trichloroethane
1.6 U	UG/KG	cis-1,3-Dichloropropene
3.3 U	UG/KG	Bromoform
1.6 U	UG/KG	Bromobenzene
1.6 U	UG/KG	1,1,2,2-Tetrachloroethane
1.6 U	UG/KG	Tetrachloroethene (Tetrachloroethylene)
1.6 U	UG/KG	1,3-Dichloropropane
1.6 U	UG/KG	Methyl Butyl Ketone
1.6 U	UG/KG	Toluene
1.6 U	UG/KG	Chlorobenzene
1.6 U	UG/KG	1,1,1,2-Tetrachloroethane
1.6 U	UG/KG	Ethyl Benzene
3.3 U	UG/KG	(m- and/or p-)Xylene
1.6 U	UG/KG	o-Xylene
1.6 U	UG/KG	Styrene
3.3 U	UG/KG	1,2,3-Trichloropropane
1.6 U	UG/KG	o-Chlorotoluene
1.6 U	UG/KG	p-Chlorotoluene
1.6 U	UG/KG	1,3-Dichlorobenzene
1.6 U	UG/KG	1,4-Dichlorobenzene
1.6 U	UG/KG	1,2-Dichlorobenzene
1.6 U	UG/KG	1,2-Dibromoethane (EDB)
1.6 U	UG/KG	Isopropylbenzene
1.6 U	UG/KG	n-Propylbenzene
1.6 U	UG/KG	1,3,5-Trimethylbenzene
1.6 U	UG/KG	tert-Butylbenzene
1.6 U	UG/KG	1,2,4-Trimethylbenzene
1.6 U	UG/KG	sec-Butylbenzene
1.6 U	UG/KG	p-Isopropyltoluene
1.6 U	UG/KG	n-Butylbenzene
8.2 U	UG/KG	1,2-Dibromo-3-Chloropropane (DBCP)
1.6 U	UG/KG	1,2,4-Trichlorobenzene
1.6 U	UG/KG	Hexachloro-1,3-Butadiene
1.6 U	UG/KG	1,2,3-Trichlorobenzene
30	%	% Moisture

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

VOLATILES SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/28/2005 11:30**

Sample **3619** FY **2005** Project: **05-0474**

Volatiles Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SD-09 /
Media: SEDIMENT

Produced by: Hale, Sallie
Requestor:
Project Leader: AMASTERS
Beginning: 03/28/2005 11:45
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
1.2 U	UG/KG	Dichlorodifluoromethane
1.2 U	UG/KG	Chloromethane
1.2 U	UG/KG	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)
1.2 U	UG/KG	Methyl T-Butyl Ether (MTBE)
1.2 U	UG/KG	Bromomethane
1.2 U	UG/KG	Cyclohexane
1.2 U	UG/KG	Vinyl Chloride
1.2 U	UG/KG	Chloroethane
1.2 U	UG/KG	Trichlorofluoromethane (Freon 11)
1.2 U	UG/KG	1,1-Dichloroethene (1,1-Dichloroethylene)
1.2 U	UG/KG	Methylene Chloride
12 U	UG/KG	Acetone
1.2 U	UG/KG	Carbon Disulfide
1.2 U	UG/KG	Methyl Acetate
1.2 U	UG/KG	1,1-Dichloroethane
1.2 U	UG/KG	cis-1,2-Dichloroethene
1.2 U	UG/KG	2,2-Dichloropropane
6.1 U	UG/KG	Methyl Ethyl Ketone
2.4 U	UG/KG	Bromochloromethane
1.2 U	UG/KG	trans-1,2-Dichloroethene
1.2 U	UG/KG	Chloroform
1.2 U	UG/KG	1,2-Dichloroethane
1.2 U	UG/KG	1,1,1-Trichloroethane
1.2 U	UG/KG	1,1-Dichloropropene
1.2 U	UG/KG	Carbon Tetrachloride
1.2 U	UG/KG	Bromodichloromethane
1.2 U	UG/KG	Methyl Isobutyl Ketone
1.2 U	UG/KG	1,2-Dichloropropane
1.2 U	UG/KG	Methylcyclohexane
1.2 U	UG/KG	Dibromomethane
1.2 U	UG/KG	trans-1,3-Dichloropropene
1.2 U	UG/KG	Trichloroethene (Trichloroethylene)
1.2 U	UG/KG	Benzene
1.2 U	UG/KG	Dibromochloromethane
1.2 U	UG/KG	1,1,2-Trichloroethane
1.2 U	UG/KG	cis-1,3-Dichloropropene
2.4 U	UG/KG	Bromoform
1.2 U	UG/KG	Bromobenzene
1.2 U	UG/KG	1,1,2,2-Tetrachloroethane
1.2 U	UG/KG	Tetrachloroethene (Tetrachloroethylene)
1.2 U	UG/KG	1,3-Dichloropropane
1.2 U	UG/KG	Methyl Butyl Ketone
1.2 U	UG/KG	Toluene
1.2 U	UG/KG	Chlorobenzene
1.2 U	UG/KG	1,1,1,2-Tetrachloroethane
1.2 U	UG/KG	Ethyl Benzene
2.4 U	UG/KG	(m- and/or p-)Xylene
1.2 U	UG/KG	o-Xylene
1.2 U	UG/KG	Styrene
2.4 U	UG/KG	1,2,3-Trichloropropane
1.2 U	UG/KG	o-Chlorotoluene
1.2 U	UG/KG	p-Chlorotoluene
1.2 U	UG/KG	1,3-Dichlorobenzene
1.2 U	UG/KG	1,4-Dichlorobenzene
1.2 U	UG/KG	1,2-Dichlorobenzene
1.2 U	UG/KG	1,2-Dibromoethane (EDB)
1.2 U	UG/KG	Isopropylbenzene
1.2 U	UG/KG	n-Propylbenzene
1.2 U	UG/KG	1,3,5-Trimethylbenzene
1.2 U	UG/KG	tert-Butylbenzene
1.2 U	UG/KG	1,2,4-Trimethylbenzene
1.2 U	UG/KG	sec-Butylbenzene
1.2 U	UG/KG	p-Isopropyltoluene
1.2 U	UG/KG	n-Butylbenzene
6.1 U	UG/KG	1,2-Dibromo-3-Chloropropane (DBCP)
1.2 U	UG/KG	1,2,4-Trichlorobenzene
1.2 U	UG/KG	Hexachloro-1,3-Butadiene
1.2 U	UG/KG	1,2,3-Trichlorobenzene
21	%	% Moisture

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

VOLATILES SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/28/2005 11:30**

Sample **3620** FY **2005** Project: **05-0474**

Volatiles Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SD10D /
Media: SEDIMENT

Produced by: Hale, Sallie
Requestor:
Project Leader: AMASTERS
Beginning: 03/28/2005 10:45
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
1.4 U	UG/KG	Dichlorodifluoromethane
1.4 U	UG/KG	Chloromethane
1.4 U	UG/KG	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)
1.4 U	UG/KG	Methyl T-Butyl Ether (MTBE)
1.4 U	UG/KG	Bromomethane
1.4 U	UG/KG	Cyclohexane
1.4 U	UG/KG	Vinyl Chloride
1.4 U	UG/KG	Chloroethane
1.4 U	UG/KG	Trichlorofluoromethane (Freon 11)
1.4 U	UG/KG	1,1-Dichloroethene (1,1-Dichloroethylene)
1.4 U	UG/KG	Methylene Chloride
30 U	UG/KG	Acetone
0.23 J	UG/KG	Carbon Disulfide
1.4 U	UG/KG	Methyl Acetate
1.4 U	UG/KG	1,1-Dichloroethane
1.4 U	UG/KG	cis-1,2-Dichloroethene
1.4 U	UG/KG	2,2-Dichloropropane
2.6 J	UG/KG	Methyl Ethyl Ketone
2.8 U	UG/KG	Bromochloromethane
1.4 U	UG/KG	trans-1,2-Dichloroethene
1.4 U	UG/KG	Chloroform
1.4 U	UG/KG	1,2-Dichloroethane
1.4 U	UG/KG	1,1,1-Trichloroethane
1.4 U	UG/KG	1,1-Dichloropropene
1.4 U	UG/KG	Carbon Tetrachloride
1.4 U	UG/KG	Bromodichloromethane
1.4 U	UG/KG	Methyl Isobutyl Ketone
1.4 U	UG/KG	1,2-Dichloropropane
1.4 U	UG/KG	Methylcyclohexane
1.4 U	UG/KG	Dibromomethane
1.4 U	UG/KG	trans-1,3-Dichloropropene
1.4 U	UG/KG	Trichloroethene (Trichloroethylene)
1.4 U	UG/KG	Benzene
1.4 U	UG/KG	Dibromochloromethane
1.4 U	UG/KG	1,1,2-Trichloroethane
1.4 U	UG/KG	cis-1,3-Dichloropropene
2.8 U	UG/KG	Bromoform
1.4 U	UG/KG	Bromobenzene
1.4 U	UG/KG	1,1,2,2-Tetrachloroethane
1.4 U	UG/KG	Tetrachloroethene (Tetrachloroethylene)
1.4 U	UG/KG	1,3-Dichloropropane
1.4 U	UG/KG	Methyl Butyl Ketone
0.36 J	UG/KG	Toluene
1.4 U	UG/KG	Chlorobenzene
1.4 U	UG/KG	1,1,1,2-Tetrachloroethane
1.4 U	UG/KG	Ethyl Benzene
2.8 U	UG/KG	(m- and/or p-)Xylene
1.4 U	UG/KG	o-Xylene
1.4 U	UG/KG	Styrene
2.8 U	UG/KG	1,2,3-Trichloropropane
1.4 U	UG/KG	o-Chlorotoluene
1.4 U	UG/KG	p-Chlorotoluene
1.4 U	UG/KG	1,3-Dichlorobenzene
1.4 U	UG/KG	1,4-Dichlorobenzene
1.4 U	UG/KG	1,2-Dichlorobenzene
1.4 U	UG/KG	1,2-Dibromoethane (EDB)
1.4 U	UG/KG	Isopropylbenzene
1.4 U	UG/KG	n-Propylbenzene
1.4 U	UG/KG	1,3,5-Trimethylbenzene
1.4 U	UG/KG	tert-Butylbenzene
1.4 U	UG/KG	1,2,4-Trimethylbenzene
1.4 U	UG/KG	sec-Butylbenzene
0.62 J	UG/KG	p-Isopropyltoluene
1.4 U	UG/KG	n-Butylbenzene
7.1 U	UG/KG	1,2-Dibromo-3-Chloropropane (DBCP)
1.4 U	UG/KG	1,2,4-Trichlorobenzene
1.4 U	UG/KG	Hexachloro-1,3-Butadiene
1.4 U	UG/KG	1,2,3-Trichlorobenzene
29	%	% Moisture

All results below the MQL, but above the MDL reported as J.

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

VOLATILES SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/28/2005 11:30**

Sample **3621** FY **2005** Project: **05-0474**

Volatiles Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SS-01 /
Media: SURFACE SOIL

Produced by: Hale, Sallie
Requestor:
Project Leader: AMASTERS
Beginning: 03/28/2005 10:40
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
1.3 U	UG/KG	Dichlorodifluoromethane
1.3 U	UG/KG	Chloromethane
1.3 U	UG/KG	Bromomethane
1.3 U	UG/KG	Vinyl Chloride
1.3 U	UG/KG	Chloroethane
1.3 U	UG/KG	Trichlorofluoromethane (Freon 11)
1.3 U	UG/KG	1,1-Dichloroethene (1,1-Dichloroethylene)
1.3 U	UG/KG	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)
1.3 U	UG/KG	Methylene Chloride
1.3 U	UG/KG	Methyl T-Butyl Ether (MTBE)
13 U	UG/KG	Acetone
1.3 U	UG/KG	Carbon Disulfide
1.3 U	UG/KG	Methyl Acetate
1.3 U	UG/KG	1,1-Dichloroethane
1.3 U	UG/KG	cis-1,2-Dichloroethene
1.3 U	UG/KG	2,2-Dichloropropane
6.4 U	UG/KG	Methyl Ethyl Ketone
2.6 U	UG/KG	Bromochloromethane
1.3 U	UG/KG	trans-1,2-Dichloroethene
1.3 U	UG/KG	Chloroform
1.3 U	UG/KG	1,2-Dichloroethane
1.3 U	UG/KG	1,1,1-Trichloroethane
1.3 U	UG/KG	Cyclohexane
1.3 U	UG/KG	1,1-Dichloropropene
1.3 U	UG/KG	Carbon Tetrachloride
1.3 U	UG/KG	Bromodichloromethane
1.3 U	UG/KG	Methyl Isobutyl Ketone
1.3 U	UG/KG	1,2-Dichloropropane
1.3 U	UG/KG	Methylcyclohexane
1.3 U	UG/KG	Dibromomethane
1.3 U	UG/KG	trans-1,3-Dichloropropene
1.3 U	UG/KG	Trichloroethene (Trichloroethylene)
1.3 U	UG/KG	Benzene
1.3 U	UG/KG	Dibromochloromethane
1.3 U	UG/KG	1,1,2-Trichloroethane
1.3 U	UG/KG	cis-1,3-Dichloropropene
2.6 U	UG/KG	Bromoform
1.3 U	UG/KG	Bromobenzene
1.3 U	UG/KG	1,1,2,2-Tetrachloroethane
1.3 U	UG/KG	Tetrachloroethene (Tetrachloroethylene)
1.3 U	UG/KG	1,3-Dichloropropane
1.3 U	UG/KG	Methyl Butyl Ketone
1.3 U	UG/KG	Toluene
1.3 U	UG/KG	Chlorobenzene
1.3 U	UG/KG	1,1,1,2-Tetrachloroethane
1.3 U	UG/KG	Ethyl Benzene
2.6 U	UG/KG	(m- and/or p-)Xylene
1.3 U	UG/KG	o-Xylene
1.3 U	UG/KG	Styrene
2.6 U	UG/KG	1,2,3-Trichloropropane
1.3 U	UG/KG	o-Chlorotoluene
1.3 U	UG/KG	p-Chlorotoluene
1.3 U	UG/KG	1,3-Dichlorobenzene
1.3 U	UG/KG	1,4-Dichlorobenzene
1.3 U	UG/KG	1,2-Dichlorobenzene
1.3 U	UG/KG	1,2-Dibromoethane (EDB)
1.3 U	UG/KG	Isopropylbenzene
1.3 U	UG/KG	n-Propylbenzene
1.3 U	UG/KG	1,3,5-Trimethylbenzene
1.3 U	UG/KG	tert-Butylbenzene
1.3 U	UG/KG	1,2,4-Trimethylbenzene
1.3 U	UG/KG	sec-Butylbenzene
1.3 U	UG/KG	p-Isopropyltoluene
1.3 U	UG/KG	n-Butylbenzene
6.4 U	UG/KG	1,2-Dibromo-3-Chloropropane (DBCP)
1.3 U	UG/KG	1,2,4-Trichlorobenzene
1.3 U	UG/KG	Hexachloro-1,3-Butadiene
1.3 U	UG/KG	1,2,3-Trichlorobenzene
27	%	% Moisture

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

VOLATILES SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/28/2005 11:30**

Sample **3622** FY **2005** Project: **05-0474**

Volatiles Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SS-02 /
Media: SURFACE SOIL

Produced by: Hale, Sallie
Requestor:
Project Leader: AMASTERS
Beginning: 03/28/2005 11:10
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
2.0 U	UG/KG	Dichlorodifluoromethane
2.0 U	UG/KG	Chloromethane
2.0 U	UG/KG	Bromomethane
2.0 U	UG/KG	Vinyl Chloride
2.0 U	UG/KG	Chloroethane
2.0 U	UG/KG	Trichlorofluoromethane (Freon 11)
2.0 U	UG/KG	1,1-Dichloroethene (1,1-Dichloroethylene)
2.0 U	UG/KG	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)
2.0 U	UG/KG	Methylene Chloride
2.0 U	UG/KG	Methyl T-Butyl Ether (MTBE)
20 U	UG/KG	Acetone
2.0 U	UG/KG	Carbon Disulfide
2.0 U	UG/KG	Methyl Acetate
2.0 U	UG/KG	1,1-Dichloroethane
2.0 U	UG/KG	cis-1,2-Dichloroethene
2.0 U	UG/KG	2,2-Dichloropropane
2.7 J	UG/KG	Methyl Ethyl Ketone
4.1 U	UG/KG	Bromochloromethane
2.0 U	UG/KG	trans-1,2-Dichloroethene
2.0 U	UG/KG	Chloroform
2.0 U	UG/KG	1,2-Dichloroethane
2.0 U	UG/KG	1,1,1-Trichloroethane
2.0 U	UG/KG	Cyclohexane
2.0 U	UG/KG	1,1-Dichloropropene
2.0 U	UG/KG	Carbon Tetrachloride
2.0 U	UG/KG	Bromodichloromethane
2.0 U	UG/KG	Methyl Isobutyl Ketone
2.0 U	UG/KG	1,2-Dichloropropane
2.0 U	UG/KG	Methylcyclohexane
2.0 U	UG/KG	Dibromomethane
2.0 U	UG/KG	trans-1,3-Dichloropropene
2.0 U	UG/KG	Trichloroethene (Trichloroethylene)
2.0 U	UG/KG	Benzene
2.0 U	UG/KG	Dibromochloromethane
2.0 U	UG/KG	1,1,2-Trichloroethane
2.0 U	UG/KG	cis-1,3-Dichloropropene
4.1 U	UG/KG	Bromoform
2.0 U	UG/KG	Bromobenzene
2.0 U	UG/KG	1,1,2,2-Tetrachloroethane
2.0 U	UG/KG	Tetrachloroethene (Tetrachloroethylene)
2.0 U	UG/KG	1,3-Dichloropropane
2.0 U	UG/KG	Methyl Butyl Ketone
0.35 J	UG/KG	Toluene
2.0 U	UG/KG	Chlorobenzene
2.0 U	UG/KG	1,1,1,2-Tetrachloroethane
2.0 U	UG/KG	Ethyl Benzene
4.1 U	UG/KG	(m- and/or p-)Xylene
2.0 U	UG/KG	o-Xylene
2.0 U	UG/KG	Styrene
4.1 U	UG/KG	1,2,3-Trichloropropane
2.0 U	UG/KG	o-Chlorotoluene
2.0 U	UG/KG	p-Chlorotoluene
2.0 U	UG/KG	1,3-Dichlorobenzene
2.0 U	UG/KG	1,4-Dichlorobenzene
2.0 U	UG/KG	1,2-Dichlorobenzene
2.0 U	UG/KG	1,2-Dibromoethane (EDB)
2.0 U	UG/KG	Isopropylbenzene
2.0 U	UG/KG	n-Propylbenzene
2.0 U	UG/KG	1,3,5-Trimethylbenzene
2.0 U	UG/KG	tert-Butylbenzene
2.0 U	UG/KG	1,2,4-Trimethylbenzene
2.0 U	UG/KG	sec-Butylbenzene
1.5 J	UG/KG	p-Isopropyltoluene
2.0 U	UG/KG	n-Butylbenzene
10 U	UG/KG	1,2-Dibromo-3-Chloropropane (DBCP)
2.0 U	UG/KG	1,2,4-Trichlorobenzene
2.0 U	UG/KG	Hexachloro-1,3-Butadiene
2.0 U	UG/KG	1,2,3-Trichlorobenzene
42	%	% Moisture

All results below the MQL, but above the MDL reported as J.

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

VOLATILES SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/28/2005 11:30**

Sample **3623** FY **2005** Project: **05-0474**

Volatiles Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SS-03 /
Media: SURFACE SOIL

Produced by: Hale, Sallie
Requestor:
Project Leader: AMASTERS
Beginning: 03/28/2005 11:30
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
3.7 U	UG/KG	Dichlorodifluoromethane
3.7 U	UG/KG	Chloromethane
3.7 U	UG/KG	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)
3.7 U	UG/KG	Methyl T-Butyl Ether (MTBE)
3.7 U	UG/KG	Bromomethane
3.7 U	UG/KG	Cyclohexane
3.7 U	UG/KG	Vinyl Chloride
3.7 U	UG/KG	Chloroethane
3.7 U	UG/KG	Trichlorofluoromethane (Freon 11)
3.7 U	UG/KG	1,1-Dichloroethene (1,1-Dichloroethylene)
3.7 U	UG/KG	Methylene Chloride
60 U	UG/KG	Acetone
1.2 J	UG/KG	Carbon Disulfide
3.7 U	UG/KG	Methyl Acetate
3.7 U	UG/KG	1,1-Dichloroethane
3.7 U	UG/KG	cis-1,2-Dichloroethene
3.7 U	UG/KG	2,2-Dichloropropane
8.3 J	UG/KG	Methyl Ethyl Ketone
7.4 U	UG/KG	Bromochloromethane
3.7 U	UG/KG	trans-1,2-Dichloroethene
3.7 U	UG/KG	Chloroform
3.7 U	UG/KG	1,2-Dichloroethane
3.7 U	UG/KG	1,1,1-Trichloroethane
3.7 U	UG/KG	1,1-Dichloropropene
3.7 U	UG/KG	Carbon Tetrachloride
3.7 U	UG/KG	Bromodichloromethane
3.7 U	UG/KG	Methyl Isobutyl Ketone
3.7 U	UG/KG	1,2-Dichloropropane
3.7 U	UG/KG	Methylcyclohexane
3.7 U	UG/KG	Dibromomethane
3.7 U	UG/KG	trans-1,3-Dichloropropene
3.7 U	UG/KG	Trichloroethene (Trichloroethylene)
3.7 U	UG/KG	Benzene
3.7 U	UG/KG	Dibromochloromethane
3.7 U	UG/KG	1,1,2-Trichloroethane

RESULTS	UNITS	ANALYTE
3.7 U	UG/KG	cis-1,3-Dichloropropene
7.4 U	UG/KG	Bromoform
3.7 U	UG/KG	Bromobenzene
3.7 U	UG/KG	1,1,2,2-Tetrachloroethane
3.7 U	UG/KG	Tetrachloroethene (Tetrachloroethylene)
3.7 U	UG/KG	1,3-Dichloropropane
3.7 U	UG/KG	Methyl Butyl Ketone
0.74 J	UG/KG	Toluene
3.7 U	UG/KG	Chlorobenzene
3.7 U	UG/KG	1,1,1,2-Tetrachloroethane
3.7 U	UG/KG	Ethyl Benzene
7.4 U	UG/KG	(m- and/or p-)Xylene
3.7 U	UG/KG	o-Xylene
3.7 U	UG/KG	Styrene
7.4 U	UG/KG	1,2,3-Trichloropropane
3.7 U	UG/KG	o-Chlorotoluene
3.7 U	UG/KG	p-Chlorotoluene
3.7 U	UG/KG	1,3-Dichlorobenzene
3.7 U	UG/KG	1,4-Dichlorobenzene
3.7 U	UG/KG	1,2-Dichlorobenzene
3.7 U	UG/KG	1,2-Dibromoethane (EDB)
3.7 U	UG/KG	Isopropylbenzene
3.7 U	UG/KG	n-Propylbenzene
3.7 U	UG/KG	1,3,5-Trimethylbenzene
3.7 U	UG/KG	tert-Butylbenzene
3.7 U	UG/KG	1,2,4-Trimethylbenzene
3.7 U	UG/KG	sec-Butylbenzene
3.7 U	UG/KG	p-Isopropyltoluene
3.7 U	UG/KG	n-Butylbenzene
18 U	UG/KG	1,2-Dibromo-3-Chloropropane (DBCP)
3.7 U	UG/KG	1,2,4-Trichlorobenzene
3.7 U	UG/KG	Hexachloro-1,3-Butadiene
3.7 U	UG/KG	1,2,3-Trichlorobenzene
55	%	% Moisture

All results below the MQL, but above the MDL reported as J.

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

VOLATILES SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/28/2005 11:30**

Sample **3624** FY **2005** Project: **05-0474**

Volatiles Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SS-04 /
Media: SURFACE SOIL

Produced by: Hale, Sallie
Requestor:
Project Leader: AMASTERS
Beginning: 03/28/2005 11:55
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
1.8 U	UG/KG	Dichlorodifluoromethane
1.8 U	UG/KG	Chloromethane
1.8 U	UG/KG	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)
1.8 U	UG/KG	Methyl T-Butyl Ether (MTBE)
1.8 U	UG/KG	Bromomethane
1.8 U	UG/KG	Cyclohexane
1.8 U	UG/KG	Vinyl Chloride
1.8 U	UG/KG	Chloroethane
1.8 U	UG/KG	Trichlorofluoromethane (Freon 11)
1.8 U	UG/KG	1,1-Dichloroethene (1,1-Dichloroethylene)
1.8 U	UG/KG	Methylene Chloride
18 U	UG/KG	Acetone
0.26 J	UG/KG	Carbon Disulfide
1.8 U	UG/KG	Methyl Acetate
1.8 U	UG/KG	1,1-Dichloroethane
1.8 U	UG/KG	cis-1,2-Dichloroethene
1.8 U	UG/KG	2,2-Dichloropropane
3.3 J	UG/KG	Methyl Ethyl Ketone
3.7 U	UG/KG	Bromochloromethane
1.8 U	UG/KG	trans-1,2-Dichloroethene
1.8 U	UG/KG	Chloroform
1.8 U	UG/KG	1,2-Dichloroethane
1.8 U	UG/KG	1,1,1-Trichloroethane
1.8 U	UG/KG	1,1-Dichloropropene
1.8 U	UG/KG	Carbon Tetrachloride
1.8 U	UG/KG	Bromodichloromethane
1.8 U	UG/KG	Methyl Isobutyl Ketone
1.8 U	UG/KG	1,2-Dichloropropane
1.8 U	UG/KG	Methylcyclohexane
1.8 U	UG/KG	Dibromomethane
1.8 U	UG/KG	trans-1,3-Dichloropropene
1.8 U	UG/KG	Trichloroethene (Trichloroethylene)
1.8 U	UG/KG	Benzene
1.8 U	UG/KG	Dibromochloromethane
1.8 U	UG/KG	1,1,2-Trichloroethane

RESULTS	UNITS	ANALYTE
1.8 U	UG/KG	cis-1,3-Dichloropropene
3.7 U	UG/KG	Bromoform
1.8 U	UG/KG	Bromobenzene
1.8 U	UG/KG	1,1,2,2-Tetrachloroethane
1.8 U	UG/KG	Tetrachloroethene (Tetrachloroethylene)
1.8 U	UG/KG	1,3-Dichloropropane
1.8 U	UG/KG	Methyl Butyl Ketone
1.8 U	UG/KG	Toluene
1.8 U	UG/KG	Chlorobenzene
1.8 U	UG/KG	1,1,1,2-Tetrachloroethane
1.8 U	UG/KG	Ethyl Benzene
0.28 J	UG/KG	(m- and/or p-)Xylene
1.8 U	UG/KG	o-Xylene
1.8 U	UG/KG	Styrene
3.7 U	UG/KG	1,2,3-Trichloropropane
1.8 U	UG/KG	o-Chlorotoluene
1.8 U	UG/KG	p-Chlorotoluene
1.8 U	UG/KG	1,3-Dichlorobenzene
1.8 U	UG/KG	1,4-Dichlorobenzene
1.8 U	UG/KG	1,2-Dichlorobenzene
1.8 U	UG/KG	1,2-Dibromoethane (EDB)
1.8 U	UG/KG	Isopropylbenzene
1.8 U	UG/KG	n-Propylbenzene
1.8 U	UG/KG	1,3,5-Trimethylbenzene
1.8 U	UG/KG	tert-Butylbenzene
1.8 U	UG/KG	1,2,4-Trimethylbenzene
1.8 U	UG/KG	sec-Butylbenzene
1.8 U	UG/KG	p-Isopropyltoluene
1.8 U	UG/KG	n-Butylbenzene
9.2 U	UG/KG	1,2-Dibromo-3-Chloropropane (DBCP)
1.8 U	UG/KG	1,2,4-Trichlorobenzene
1.8 U	UG/KG	Hexachloro-1,3-Butadiene
1.8 U	UG/KG	1,2,3-Trichlorobenzene
35	%	% Moisture

All results below the MQL, but above the MDL reported as J.

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

VOLATILES SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/28/2005 11:30**

Sample **3625** FY **2005** Project: **05-0474**

Volatiles Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SS-05 /
Media: SURFACE SOIL

Produced by: Hale, Sallie
Requestor:
Project Leader: AMASTERS
Beginning: 03/28/2005 12:35
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
3.0 U	UG/KG	Dichlorodifluoromethane
3.0 U	UG/KG	Chloromethane
3.0 U	UG/KG	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)
3.0 U	UG/KG	Methyl T-Butyl Ether (MTBE)
3.0 U	UG/KG	Bromomethane
3.0 U	UG/KG	Cyclohexane
3.0 U	UG/KG	Vinyl Chloride
3.0 U	UG/KG	Chloroethane
3.0 U	UG/KG	Trichlorofluoromethane (Freon 11)
3.0 U	UG/KG	1,1-Dichloroethene (1,1-Dichloroethylene)
3.0 U	UG/KG	Methylene Chloride
30 U	UG/KG	Acetone
3.0 U	UG/KG	Carbon Disulfide
3.0 U	UG/KG	Methyl Acetate
3.0 U	UG/KG	1,1-Dichloroethane
4.4	UG/KG	cis-1,2-Dichloroethene
3.0 U	UG/KG	2,2-Dichloropropane
15 U	UG/KG	Methyl Ethyl Ketone
6.0 U	UG/KG	Bromochloromethane
0.54 J	UG/KG	trans-1,2-Dichloroethene
3.0 U	UG/KG	Chloroform
200	UG/KG	1,2-Dichloroethane
3.0 U	UG/KG	1,1,1-Trichloroethane
3.0 U	UG/KG	1,1-Dichloropropene
3.0 U	UG/KG	Carbon Tetrachloride
3.0 U	UG/KG	Bromodichloromethane
3.0 U	UG/KG	Methyl Isobutyl Ketone
3.0 U	UG/KG	1,2-Dichloropropane
3.0 U	UG/KG	Methylcyclohexane
3.0 U	UG/KG	Dibromomethane
3.0 U	UG/KG	trans-1,3-Dichloropropene
22	UG/KG	Trichloroethene (Trichloroethylene)
3.0 U	UG/KG	Benzene
3.0 U	UG/KG	Dibromochloromethane
3.0 U	UG/KG	1,1,2-Trichloroethane
3.0 U	UG/KG	cis-1,3-Dichloropropene
6.0 U	UG/KG	Bromoform
3.0 U	UG/KG	Bromobenzene
3.0 U	UG/KG	1,1,2,2-Tetrachloroethane
1.8 J	UG/KG	Tetrachloroethene (Tetrachloroethylene)
3.0 U	UG/KG	1,3-Dichloropropane
3.0 U	UG/KG	Methyl Butyl Ketone
3.0 U	UG/KG	Toluene
3.0 U	UG/KG	Chlorobenzene
3.0 U	UG/KG	1,1,1,2-Tetrachloroethane
3.0 U	UG/KG	Ethyl Benzene
6.0 U	UG/KG	(m- and/or p-)Xylene
3.0 U	UG/KG	o-Xylene
3.0 U	UG/KG	Styrene
6.0 U	UG/KG	1,2,3-Trichloropropane
3.0 U	UG/KG	o-Chlorotoluene
3.0 U	UG/KG	p-Chlorotoluene
3.0 U	UG/KG	1,3-Dichlorobenzene
3.0 U	UG/KG	1,4-Dichlorobenzene
3.0 U	UG/KG	1,2-Dichlorobenzene
3.0 U	UG/KG	1,2-Dibromoethane (EDB)
3.0 U	UG/KG	Isopropylbenzene
3.0 U	UG/KG	n-Propylbenzene
3.0 U	UG/KG	1,3,5-Trimethylbenzene
3.0 U	UG/KG	tert-Butylbenzene
3.0 U	UG/KG	1,2,4-Trimethylbenzene
3.0 U	UG/KG	sec-Butylbenzene
3.0 U	UG/KG	p-Isopropyltoluene
3.0 U	UG/KG	n-Butylbenzene
15 U	UG/KG	1,2-Dibromo-3-Chloropropane (DBCP)
3.0 U	UG/KG	1,2,4-Trichlorobenzene
3.0 U	UG/KG	Hexachloro-1,3-Butadiene
3.0 U	UG/KG	1,2,3-Trichlorobenzene
55	%	% Moisture

All results below the MQL, but above the MDL reported as J.

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

VOLATILES SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/28/2005 11:30**

Sample **3626** FY **2005** Project: **05-0474**

Volatiles Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SS05D /
Media: SURFACE SOIL

Produced by: Hale, Sallie
Requestor:
Project Leader: AMASTERS
Beginning: 03/28/2005 12:35
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
2.6 U	UG/KG	Dichlorodifluoromethane
2.6 U	UG/KG	Chloromethane
2.6 U	UG/KG	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)
2.6 U	UG/KG	Methyl T-Butyl Ether (MTBE)
2.6 U	UG/KG	Bromomethane
2.6 U	UG/KG	Cyclohexane
2.6 U	UG/KG	Vinyl Chloride
1.9 J	UG/KG	Chloroethane
2.6 U	UG/KG	Trichlorofluoromethane (Freon 11)
2.6 U	UG/KG	1,1-Dichloroethene (1,1-Dichloroethylene)
0.74 J	UG/KG	Methylene Chloride
26 U	UG/KG	Acetone
2.6 U	UG/KG	Carbon Disulfide
2.6 U	UG/KG	Methyl Acetate
2.6 U	UG/KG	1,1-Dichloroethane
9.3	UG/KG	cis-1,2-Dichloroethene
2.6 U	UG/KG	2,2-Dichloropropane
4.2 J	UG/KG	Methyl Ethyl Ketone
5.1 U	UG/KG	Bromochloromethane
1.1 J	UG/KG	trans-1,2-Dichloroethene
2.6 U	UG/KG	Chloroform
1100 J	UG/KG	1,2-Dichloroethane
2.6 U	UG/KG	1,1,1-Trichloroethane
2.6 U	UG/KG	1,1-Dichloropropene
2.6 U	UG/KG	Carbon Tetrachloride
2.6 U	UG/KG	Bromodichloromethane
2.6 U	UG/KG	Methyl Isobutyl Ketone
2.6 U	UG/KG	1,2-Dichloropropane
2.6 U	UG/KG	Methylcyclohexane
2.6 U	UG/KG	Dibromomethane
2.6 U	UG/KG	trans-1,3-Dichloropropene
30	UG/KG	Trichloroethene (Trichloroethylene)
2.6 U	UG/KG	Benzene
2.6 U	UG/KG	Dibromochloromethane
2.6 U	UG/KG	1,1,2-Trichloroethane
2.6 U	UG/KG	cis-1,3-Dichloropropene
5.1 U	UG/KG	Bromoform
2.6 U	UG/KG	Bromobenzene
2.6 U	UG/KG	1,1,2,2-Tetrachloroethane
2.1 J	UG/KG	Tetrachloroethene (Tetrachloroethylene)
2.6 U	UG/KG	1,3-Dichloropropane
2.6 U	UG/KG	Methyl Butyl Ketone
2.6 U	UG/KG	Toluene
2.6 U	UG/KG	Chlorobenzene
2.6 U	UG/KG	1,1,1,2-Tetrachloroethane
2.6 U	UG/KG	Ethyl Benzene
5.1 U	UG/KG	(m- and/or p-)Xylene
2.6 U	UG/KG	o-Xylene
2.6 U	UG/KG	Styrene
5.1 U	UG/KG	1,2,3-Trichloropropane
2.6 U	UG/KG	o-Chlorotoluene
2.6 U	UG/KG	p-Chlorotoluene
2.6 U	UG/KG	1,3-Dichlorobenzene
2.6 U	UG/KG	1,4-Dichlorobenzene
2.6 U	UG/KG	1,2-Dichlorobenzene
2.6 U	UG/KG	1,2-Dibromoethane (EDB)
2.6 U	UG/KG	Isopropylbenzene
2.6 U	UG/KG	n-Propylbenzene
2.6 U	UG/KG	1,3,5-Trimethylbenzene
2.6 U	UG/KG	tert-Butylbenzene
2.6 U	UG/KG	1,2,4-Trimethylbenzene
2.6 U	UG/KG	sec-Butylbenzene
2.6 U	UG/KG	p-Isopropyltoluene
2.6 U	UG/KG	n-Butylbenzene
13 U	UG/KG	1,2-Dibromo-3-Chloropropane (DBCP)
2.6 U	UG/KG	1,2,4-Trichlorobenzene
2.6 U	UG/KG	Hexachloro-1,3-Butadiene
2.6 U	UG/KG	1,2,3-Trichlorobenzene
54	%	% Moisture

1,2-Dichloroethane reported as J due to results above the calibration curve.
All hits below the MQL, but above the MDL reported as J.

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

VOLATILES SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/28/2005 11:30**

Sample **3644** FY **2005** Project: **05-0474**

Volatiles Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-BS-02 /
Media: SURFACE SOIL

Produced by: Hale, Sallie
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 15:40
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
1.4 U	UG/KG	Dichlorodifluoromethane
1.4 U	UG/KG	Chloromethane
1.4 U	UG/KG	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)
1.4 U	UG/KG	Methyl T-Butyl Ether (MTBE)
0.56 J	UG/KG	Bromomethane
1.4 U	UG/KG	Cyclohexane
1.4 U	UG/KG	Vinyl Chloride
1.4 U	UG/KG	Chloroethane
1.4 U	UG/KG	Trichlorofluoromethane (Freon 11)
1.4 U	UG/KG	1,1-Dichloroethene (1,1-Dichloroethylene)
1.4 U	UG/KG	Methylene Chloride
14 U	UG/KG	Acetone
1.4 U	UG/KG	Carbon Disulfide
1.4 U	UG/KG	Methyl Acetate
1.4 U	UG/KG	1,1-Dichloroethane
1.4 U	UG/KG	cis-1,2-Dichloroethene
1.4 U	UG/KG	2,2-Dichloropropane
6.8 U	UG/KG	Methyl Ethyl Ketone
2.7 U	UG/KG	Bromochloromethane
1.4 U	UG/KG	trans-1,2-Dichloroethene
0.45 J	UG/KG	Chloroform
1.4 U	UG/KG	1,2-Dichloroethane
1.4 U	UG/KG	1,1,1-Trichloroethane
1.4 U	UG/KG	1,1-Dichloropropene
1.4 U	UG/KG	Carbon Tetrachloride
1.4 U	UG/KG	Bromodichloromethane
1.4 U	UG/KG	Methyl Isobutyl Ketone
1.4 U	UG/KG	1,2-Dichloropropane
1.4 U	UG/KG	Methylcyclohexane
1.4 U	UG/KG	Dibromomethane
1.4 U	UG/KG	trans-1,3-Dichloropropene
1.4 U	UG/KG	Trichloroethene (Trichloroethylene)
1.4 U	UG/KG	Benzene
1.4 U	UG/KG	Dibromochloromethane
1.4 U	UG/KG	1,1,2-Trichloroethane
1.4 U	UG/KG	cis-1,3-Dichloropropene
2.7 U	UG/KG	Bromoform
1.4 U	UG/KG	Bromobenzene
1.4 U	UG/KG	1,1,2,2-Tetrachloroethane
1.4 U	UG/KG	Tetrachloroethene (Tetrachloroethylene)
1.4 U	UG/KG	1,3-Dichloropropane
1.4 U	UG/KG	Methyl Butyl Ketone
1.4 U	UG/KG	Toluene
1.4 U	UG/KG	Chlorobenzene
1.4 U	UG/KG	1,1,1,2-Tetrachloroethane
1.4 U	UG/KG	Ethyl Benzene
2.7 U	UG/KG	(m- and/or p-)Xylene
1.4 U	UG/KG	o-Xylene
1.4 U	UG/KG	Styrene
2.7 U	UG/KG	1,2,3-Trichloropropane
1.4 U	UG/KG	o-Chlorotoluene
1.4 U	UG/KG	p-Chlorotoluene
1.4 U	UG/KG	1,3-Dichlorobenzene
1.4 U	UG/KG	1,4-Dichlorobenzene
1.4 U	UG/KG	1,2-Dichlorobenzene
1.4 U	UG/KG	1,2-Dibromoethane (EDB)
1.4 U	UG/KG	Isopropylbenzene
1.4 U	UG/KG	n-Propylbenzene
1.4 U	UG/KG	1,3,5-Trimethylbenzene
1.4 U	UG/KG	tert-Butylbenzene
1.4 U	UG/KG	1,2,4-Trimethylbenzene
1.4 U	UG/KG	sec-Butylbenzene
1.4 U	UG/KG	p-Isopropyltoluene
1.4 U	UG/KG	n-Butylbenzene
6.8 U	UG/KG	1,2-Dibromo-3-Chloropropane (DBCP)
1.4 U	UG/KG	1,2,4-Trichlorobenzene
1.4 U	UG/KG	Hexachloro-1,3-Butadiene
1.4 U	UG/KG	1,2,3-Trichlorobenzene
10	%	% Moisture

All results below the MQL, but above the MDL reported as J.

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

VOLATILES SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/28/2005 11:30**

Sample **3645** FY **2005** Project: **05-0474**

Volatiles Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SD-01 /
Media: SEDIMENT

Produced by: Hale, Sallie
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 13:40
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
1.5 U	UG/KG	Dichlorodifluoromethane
1.5 U	UG/KG	Chloromethane
1.5 U	UG/KG	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)
1.5 U	UG/KG	Methyl T-Butyl Ether (MTBE)
1.5 U	UG/KG	Bromomethane
1.5 U	UG/KG	Cyclohexane
1.5 U	UG/KG	Vinyl Chloride
1.5 U	UG/KG	Chloroethane
1.5 U	UG/KG	Trichlorofluoromethane (Freon 11)
1.5 U	UG/KG	1,1-Dichloroethene (1,1-Dichloroethylene)
1.5 U	UG/KG	Methylene Chloride
20 U	UG/KG	Acetone
0.40 J	UG/KG	Carbon Disulfide
12	UG/KG	Methyl Acetate
1.5 U	UG/KG	1,1-Dichloroethane
1.5 U	UG/KG	cis-1,2-Dichloroethene
1.5 U	UG/KG	2,2-Dichloropropane
2.2 J	UG/KG	Methyl Ethyl Ketone
3.1 U	UG/KG	Bromochloromethane
1.5 U	UG/KG	trans-1,2-Dichloroethene
1.5 U	UG/KG	Chloroform
1.5 U	UG/KG	1,2-Dichloroethane
1.5 U	UG/KG	1,1,1-Trichloroethane
1.5 U	UG/KG	1,1-Dichloropropene
1.5 U	UG/KG	Carbon Tetrachloride
1.5 U	UG/KG	Bromodichloromethane
1.5 U	UG/KG	Methyl Isobutyl Ketone
1.5 U	UG/KG	1,2-Dichloropropane
1.5 U	UG/KG	Methylcyclohexane
1.5 U	UG/KG	Dibromomethane
1.5 U	UG/KG	trans-1,3-Dichloropropene
1.5 U	UG/KG	Trichloroethene (Trichloroethylene)
1.5 U	UG/KG	Benzene
1.5 U	UG/KG	Dibromochloromethane
1.5 U	UG/KG	1,1,2-Trichloroethane
1.5 U	UG/KG	cis-1,3-Dichloropropene
3.1 U	UG/KG	Bromoform
1.5 U	UG/KG	Bromobenzene
1.5 U	UG/KG	1,1,2,2-Tetrachloroethane
1.5 U	UG/KG	Tetrachloroethene (Tetrachloroethylene)
1.5 U	UG/KG	1,3-Dichloropropane
1.5 U	UG/KG	Methyl Butyl Ketone
24	UG/KG	Toluene
1.5 U	UG/KG	Chlorobenzene
1.5 U	UG/KG	1,1,1,2-Tetrachloroethane
1.5 U	UG/KG	Ethyl Benzene
3.1 U	UG/KG	(m- and/or p-)Xylene
1.5 U	UG/KG	o-Xylene
1.5 U	UG/KG	Styrene
3.1 U	UG/KG	1,2,3-Trichloropropane
1.5 U	UG/KG	o-Chlorotoluene
1.5 U	UG/KG	p-Chlorotoluene
1.5 U	UG/KG	1,3-Dichlorobenzene
0.29 J	UG/KG	1,4-Dichlorobenzene
1.5 U	UG/KG	1,2-Dichlorobenzene
1.5 U	UG/KG	1,2-Dibromoethane (EDB)
1.5 U	UG/KG	Isopropylbenzene
1.5 U	UG/KG	n-Propylbenzene
1.5 U	UG/KG	1,3,5-Trimethylbenzene
1.5 U	UG/KG	tert-Butylbenzene
1.5 U	UG/KG	1,2,4-Trimethylbenzene
1.5 U	UG/KG	sec-Butylbenzene
2.1	UG/KG	p-Isopropyltoluene
1.5 U	UG/KG	n-Butylbenzene
7.7 U	UG/KG	1,2-Dibromo-3-Chloropropane (DBCP)
1.5 U	UG/KG	1,2,4-Trichlorobenzene
1.5 U	UG/KG	Hexachloro-1,3-Butadiene
1.5 U	UG/KG	1,2,3-Trichlorobenzene
28	%	% Moisture

All results below the MQL, but above the MDL repoted as J.

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

VOLATILES SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/28/2005 11:30**

Sample **3646** FY **2005** Project: **05-0474**

Volatiles Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SD-02 /
Media: SEDIMENT

Produced by: Hale, Sallie
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 12:55
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
1.4 U	UG/KG	Dichlorodifluoromethane
1.4 U	UG/KG	Chloromethane
1.4 U	UG/KG	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)
1.4 U	UG/KG	Methyl T-Butyl Ether (MTBE)
1.4 U	UG/KG	Bromomethane
1.4 U	UG/KG	Cyclohexane
1.4 U	UG/KG	Vinyl Chloride
1.4 U	UG/KG	Chloroethane
1.4 U	UG/KG	Trichlorofluoromethane (Freon 11)
1.4 U	UG/KG	1,1-Dichloroethene (1,1-Dichloroethylene)
1.4 U	UG/KG	Methylene Chloride
14 U	UG/KG	Acetone
1.4 U	UG/KG	Carbon Disulfide
9.2	UG/KG	Methyl Acetate
1.4 U	UG/KG	1,1-Dichloroethane
1.4 U	UG/KG	cis-1,2-Dichloroethene
1.4 U	UG/KG	2,2-Dichloropropane
6.8 U	UG/KG	Methyl Ethyl Ketone
2.7 U	UG/KG	Bromochloromethane
1.4 U	UG/KG	trans-1,2-Dichloroethene
1.4 U	UG/KG	Chloroform
1.4 U	UG/KG	1,2-Dichloroethane
1.4 U	UG/KG	1,1,1-Trichloroethane
1.4 U	UG/KG	1,1-Dichloropropene
1.4 U	UG/KG	Carbon Tetrachloride
1.4 U	UG/KG	Bromodichloromethane
1.4 U	UG/KG	Methyl Isobutyl Ketone
1.4 U	UG/KG	1,2-Dichloropropane
1.4 U	UG/KG	Methylcyclohexane
1.4 U	UG/KG	Dibromomethane
1.4 U	UG/KG	trans-1,3-Dichloropropene
1.4 U	UG/KG	Trichloroethene (Trichloroethylene)
1.4 U	UG/KG	Benzene
1.4 U	UG/KG	Dibromochloromethane
1.4 U	UG/KG	1,1,2-Trichloroethane
1.4 U	UG/KG	cis-1,3-Dichloropropene
2.7 U	UG/KG	Bromoform
1.4 U	UG/KG	Bromobenzene
1.4 U	UG/KG	1,1,2,2-Tetrachloroethane
1.4 U	UG/KG	Tetrachloroethene (Tetrachloroethylene)
1.4 U	UG/KG	1,3-Dichloropropane
1.4 U	UG/KG	Methyl Butyl Ketone
1.4 U	UG/KG	Toluene
1.4 U	UG/KG	Chlorobenzene
1.4 U	UG/KG	1,1,1,2-Tetrachloroethane
1.4 U	UG/KG	Ethyl Benzene
2.7 U	UG/KG	(m- and/or p-)Xylene
1.4 U	UG/KG	o-Xylene
1.4 U	UG/KG	Styrene
2.7 U	UG/KG	1,2,3-Trichloropropane
1.4 U	UG/KG	o-Chlorotoluene
1.4 U	UG/KG	p-Chlorotoluene
1.4 U	UG/KG	1,3-Dichlorobenzene
1.4 U	UG/KG	1,4-Dichlorobenzene
1.4 U	UG/KG	1,2-Dichlorobenzene
1.4 U	UG/KG	1,2-Dibromoethane (EDB)
1.4 U	UG/KG	Isopropylbenzene
1.4 U	UG/KG	n-Propylbenzene
1.4 U	UG/KG	1,3,5-Trimethylbenzene
1.4 U	UG/KG	tert-Butylbenzene
1.4 U	UG/KG	1,2,4-Trimethylbenzene
1.4 U	UG/KG	sec-Butylbenzene
1.4 U	UG/KG	p-Isopropyltoluene
1.4 U	UG/KG	n-Butylbenzene
6.8 U	UG/KG	1,2-Dibromo-3-Chloropropane (DBCP)
1.4 U	UG/KG	1,2,4-Trichlorobenzene
1.4 U	UG/KG	Hexachloro-1,3-Butadiene
1.4 U	UG/KG	1,2,3-Trichlorobenzene
24	%	% Moisture

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

VOLATILES SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/28/2005 11:30**

Sample **3647** FY **2005** Project: **05-0474**

Volatiles Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SD-03 /
Media: SEDIMENT

Produced by: Hale, Sallie
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 12:30
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
1.3 U	UG/KG	Dichlorodifluoromethane
1.3 U	UG/KG	Chloromethane
1.3 U	UG/KG	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)
1.3 U	UG/KG	Methyl T-Butyl Ether (MTBE)
1.3 U	UG/KG	Bromomethane
1.3 U	UG/KG	Cyclohexane
1.3 U	UG/KG	Vinyl Chloride
1.3 U	UG/KG	Chloroethane
1.3 U	UG/KG	Trichlorofluoromethane (Freon 11)
1.3 U	UG/KG	1,1-Dichloroethene (1,1-Dichloroethylene)
1.3 U	UG/KG	Methylene Chloride
13 U	UG/KG	Acetone
1.3 U	UG/KG	Carbon Disulfide
4.3	UG/KG	Methyl Acetate
1.3 U	UG/KG	1,1-Dichloroethane
1.3 U	UG/KG	cis-1,2-Dichloroethene
1.3 U	UG/KG	2,2-Dichloropropane
6.3 U	UG/KG	Methyl Ethyl Ketone
2.5 U	UG/KG	Bromochloromethane
1.3 U	UG/KG	trans-1,2-Dichloroethene
1.3 U	UG/KG	Chloroform
1.3 U	UG/KG	1,2-Dichloroethane
1.3 U	UG/KG	1,1,1-Trichloroethane
1.3 U	UG/KG	1,1-Dichloropropene
1.3 U	UG/KG	Carbon Tetrachloride
1.3 U	UG/KG	Bromodichloromethane
1.3 U	UG/KG	Methyl Isobutyl Ketone
1.3 U	UG/KG	1,2-Dichloropropane
1.3 U	UG/KG	Methylcyclohexane
1.3 U	UG/KG	Dibromomethane
1.3 U	UG/KG	trans-1,3-Dichloropropene
1.3 U	UG/KG	Trichloroethene (Trichloroethylene)
1.3 U	UG/KG	Benzene
1.3 U	UG/KG	Dibromochloromethane
1.3 U	UG/KG	1,1,2-Trichloroethane

RESULTS	UNITS	ANALYTE
1.3 U	UG/KG	cis-1,3-Dichloropropene
2.5 U	UG/KG	Bromoform
1.3 U	UG/KG	Bromobenzene
1.3 U	UG/KG	1,1,2,2-Tetrachloroethane
1.3 U	UG/KG	Tetrachloroethene (Tetrachloroethylene)
1.3 U	UG/KG	1,3-Dichloropropane
1.3 U	UG/KG	Methyl Butyl Ketone
1.3 U	UG/KG	Toluene
1.3 U	UG/KG	Chlorobenzene
1.3 U	UG/KG	1,1,1,2-Tetrachloroethane
1.3 U	UG/KG	Ethyl Benzene
2.5 U	UG/KG	(m- and/or p-)Xylene
1.3 U	UG/KG	o-Xylene
1.3 U	UG/KG	Styrene
2.5 U	UG/KG	1,2,3-Trichloropropane
1.3 U	UG/KG	o-Chlorotoluene
1.3 U	UG/KG	p-Chlorotoluene
1.3 U	UG/KG	1,3-Dichlorobenzene
1.3 U	UG/KG	1,4-Dichlorobenzene
1.3 U	UG/KG	1,2-Dichlorobenzene
1.3 U	UG/KG	1,2-Dibromoethane (EDB)
1.3 U	UG/KG	Isopropylbenzene
1.3 U	UG/KG	n-Propylbenzene
1.3 U	UG/KG	1,3,5-Trimethylbenzene
1.3 U	UG/KG	tert-Butylbenzene
1.3 U	UG/KG	1,2,4-Trimethylbenzene
1.3 U	UG/KG	sec-Butylbenzene
1.3 U	UG/KG	p-Isopropyltoluene
1.3 U	UG/KG	n-Butylbenzene
6.3 U	UG/KG	1,2-Dibromo-3-Chloropropane (DBCP)
1.3 U	UG/KG	1,2,4-Trichlorobenzene
1.3 U	UG/KG	Hexachloro-1,3-Butadiene
1.3 U	UG/KG	1,2,3-Trichlorobenzene
26	%	% Moisture

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

VOLATILES SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/28/2005 11:30**

Sample **3648** FY **2005** Project: **05-0474**

Volatiles Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SD-04 /
Media: SEDIMENT

Produced by: Hale, Sallie
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 11:35
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
1.4 U	UG/KG	Dichlorodifluoromethane
1.4 U	UG/KG	Chloromethane
1.4 U	UG/KG	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)
1.4 U	UG/KG	Methyl T-Butyl Ether (MTBE)
1.4 U	UG/KG	Bromomethane
1.4 U	UG/KG	Cyclohexane
1.4 U	UG/KG	Vinyl Chloride
1.4 U	UG/KG	Chloroethane
1.4 U	UG/KG	Trichlorofluoromethane (Freon 11)
1.4 U	UG/KG	1,1-Dichloroethene (1,1-Dichloroethylene)
1.4 U	UG/KG	Methylene Chloride
14 U	UG/KG	Acetone
1.4 U	UG/KG	Carbon Disulfide
4.9	UG/KG	Methyl Acetate
1.4 U	UG/KG	1,1-Dichloroethane
1.4 U	UG/KG	cis-1,2-Dichloroethene
1.4 U	UG/KG	2,2-Dichloropropane
2.8 J	UG/KG	Methyl Ethyl Ketone
2.8 U	UG/KG	Bromochloromethane
1.4 U	UG/KG	trans-1,2-Dichloroethene
1.4 U	UG/KG	Chloroform
1.4 U	UG/KG	1,2-Dichloroethane
1.4 U	UG/KG	1,1,1-Trichloroethane
1.4 U	UG/KG	1,1-Dichloropropene
1.4 U	UG/KG	Carbon Tetrachloride
1.4 U	UG/KG	Bromodichloromethane
1.4 U	UG/KG	Methyl Isobutyl Ketone
1.4 U	UG/KG	1,2-Dichloropropane
1.4 U	UG/KG	Methylcyclohexane
1.4 U	UG/KG	Dibromomethane
1.4 U	UG/KG	trans-1,3-Dichloropropene
1.4 U	UG/KG	Trichloroethene (Trichloroethylene)
1.4 U	UG/KG	Benzene
1.4 U	UG/KG	Dibromochloromethane
1.4 U	UG/KG	1,1,2-Trichloroethane

RESULTS	UNITS	ANALYTE
1.4 U	UG/KG	cis-1,3-Dichloropropene
2.8 U	UG/KG	Bromoform
1.4 U	UG/KG	Bromobenzene
1.4 U	UG/KG	1,1,2,2-Tetrachloroethane
1.4 U	UG/KG	Tetrachloroethene (Tetrachloroethylene)
1.4 U	UG/KG	1,3-Dichloropropane
1.4 U	UG/KG	Methyl Butyl Ketone
1.4 U	UG/KG	Toluene
1.4 U	UG/KG	Chlorobenzene
1.4 U	UG/KG	1,1,1,2-Tetrachloroethane
1.4 U	UG/KG	Ethyl Benzene
2.8 U	UG/KG	(m- and/or p-)Xylene
1.4 U	UG/KG	o-Xylene
1.4 U	UG/KG	Styrene
2.8 U	UG/KG	1,2,3-Trichloropropane
1.4 U	UG/KG	o-Chlorotoluene
1.4 U	UG/KG	p-Chlorotoluene
1.4 U	UG/KG	1,3-Dichlorobenzene
1.4 U	UG/KG	1,4-Dichlorobenzene
1.4 U	UG/KG	1,2-Dichlorobenzene
1.4 U	UG/KG	1,2-Dibromoethane (EDB)
1.4 U	UG/KG	Isopropylbenzene
1.4 U	UG/KG	n-Propylbenzene
1.4 U	UG/KG	1,3,5-Trimethylbenzene
1.4 U	UG/KG	tert-Butylbenzene
1.4 U	UG/KG	1,2,4-Trimethylbenzene
1.4 U	UG/KG	sec-Butylbenzene
1.4 U	UG/KG	p-Isopropyltoluene
1.4 U	UG/KG	n-Butylbenzene
7.1 U	UG/KG	1,2-Dibromo-3-Chloropropane (DBCP)
1.4 U	UG/KG	1,2,4-Trichlorobenzene
1.4 U	UG/KG	Hexachloro-1,3-Butadiene
1.4 U	UG/KG	1,2,3-Trichlorobenzene
24	%	% Moisture

All results below the MQL, but above the MDL reported as J.

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

VOLATILES SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/28/2005 11:30**

Sample **3649** FY **2005** Project: **05-0474**

Volatiles Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SD-05 /
Media: SEDIMENT

Produced by: Hale, Sallie
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 09:55
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
1.4 U	UG/KG	Dichlorodifluoromethane
1.4 U	UG/KG	Chloromethane
1.4 U	UG/KG	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)
1.4 U	UG/KG	Methyl T-Butyl Ether (MTBE)
1.4 U	UG/KG	Bromomethane
1.4 U	UG/KG	Cyclohexane
1.4 U	UG/KG	Vinyl Chloride
1.4 U	UG/KG	Chloroethane
1.4 U	UG/KG	Trichlorofluoromethane (Freon 11)
1.4 U	UG/KG	1,1-Dichloroethene (1,1-Dichloroethylene)
1.4 U	UG/KG	Methylene Chloride
14 U	UG/KG	Acetone
1.4 U	UG/KG	Carbon Disulfide
7.8	UG/KG	Methyl Acetate
1.4 U	UG/KG	1,1-Dichloroethane
1.4 U	UG/KG	cis-1,2-Dichloroethene
1.4 U	UG/KG	2,2-Dichloropropane
7.1 U	UG/KG	Methyl Ethyl Ketone
2.8 U	UG/KG	Bromochloromethane
1.4 U	UG/KG	trans-1,2-Dichloroethene
1.4 U	UG/KG	Chloroform
1.4 U	UG/KG	1,2-Dichloroethane
1.4 U	UG/KG	1,1,1-Trichloroethane
1.4 U	UG/KG	1,1-Dichloropropene
1.4 U	UG/KG	Carbon Tetrachloride
1.4 U	UG/KG	Bromodichloromethane
1.4 U	UG/KG	Methyl Isobutyl Ketone
1.4 U	UG/KG	1,2-Dichloropropane
1.4 U	UG/KG	Methylcyclohexane
1.4 U	UG/KG	Dibromomethane
1.4 U	UG/KG	trans-1,3-Dichloropropene
1.4 U	UG/KG	Trichloroethene (Trichloroethylene)
1.4 U	UG/KG	Benzene
1.4 U	UG/KG	Dibromochloromethane
1.4 U	UG/KG	1,1,2-Trichloroethane

RESULTS	UNITS	ANALYTE
1.4 U	UG/KG	cis-1,3-Dichloropropene
2.8 U	UG/KG	Bromoform
1.4 U	UG/KG	Bromobenzene
1.4 U	UG/KG	1,1,2,2-Tetrachloroethane
1.4 U	UG/KG	Tetrachloroethene (Tetrachloroethylene)
1.4 U	UG/KG	1,3-Dichloropropane
1.4 U	UG/KG	Methyl Butyl Ketone
1.4 U	UG/KG	Toluene
1.4 U	UG/KG	Chlorobenzene
1.4 U	UG/KG	1,1,1,2-Tetrachloroethane
1.4 U	UG/KG	Ethyl Benzene
2.8 U	UG/KG	(m- and/or p-)Xylene
1.4 U	UG/KG	o-Xylene
1.4 U	UG/KG	Styrene
2.8 U	UG/KG	1,2,3-Trichloropropane
1.4 U	UG/KG	o-Chlorotoluene
1.4 U	UG/KG	p-Chlorotoluene
1.4 U	UG/KG	1,3-Dichlorobenzene
1.4 U	UG/KG	1,4-Dichlorobenzene
1.4 U	UG/KG	1,2-Dichlorobenzene
1.4 U	UG/KG	1,2-Dibromoethane (EDB)
1.4 U	UG/KG	Isopropylbenzene
1.4 U	UG/KG	n-Propylbenzene
1.4 U	UG/KG	1,3,5-Trimethylbenzene
1.4 U	UG/KG	tert-Butylbenzene
1.4 U	UG/KG	1,2,4-Trimethylbenzene
1.4 U	UG/KG	sec-Butylbenzene
1.4 U	UG/KG	p-Isopropyltoluene
1.4 U	UG/KG	n-Butylbenzene
7.1 U	UG/KG	1,2-Dibromo-3-Chloropropane (DBCP)
1.4 U	UG/KG	1,2,4-Trichlorobenzene
1.4 U	UG/KG	Hexachloro-1,3-Butadiene
1.4 U	UG/KG	1,2,3-Trichlorobenzene
24	%	% Moisture

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

VOLATILES SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/28/2005 11:30**

Sample **3650** FY **2005** Project: **05-0474**

Volatiles Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SD-06 /
Media: SEDIMENT

Produced by: Hale, Sallie
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 09:30
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
1.4 U	UG/KG	Dichlorodifluoromethane
1.4 U	UG/KG	Chloromethane
1.4 U	UG/KG	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)
1.4 U	UG/KG	Methyl T-Butyl Ether (MTBE)
1.4 U	UG/KG	Bromomethane
1.4 U	UG/KG	Cyclohexane
1.4 U	UG/KG	Vinyl Chloride
1.4 U	UG/KG	Chloroethane
1.4 U	UG/KG	Trichlorofluoromethane (Freon 11)
1.4 U	UG/KG	1,1-Dichloroethene (1,1-Dichloroethylene)
1.4 U	UG/KG	Methylene Chloride
14 U	UG/KG	Acetone
0.48 J	UG/KG	Carbon Disulfide
7.0	UG/KG	Methyl Acetate
1.4 U	UG/KG	1,1-Dichloroethane
1.4 U	UG/KG	cis-1,2-Dichloroethene
1.4 U	UG/KG	2,2-Dichloropropane
7.1 U	UG/KG	Methyl Ethyl Ketone
2.8 U	UG/KG	Bromochloromethane
1.4 U	UG/KG	trans-1,2-Dichloroethene
1.4 U	UG/KG	Chloroform
1.4 U	UG/KG	1,2-Dichloroethane
1.4 U	UG/KG	1,1,1-Trichloroethane
1.4 U	UG/KG	1,1-Dichloropropene
1.4 U	UG/KG	Carbon Tetrachloride
1.4 U	UG/KG	Bromodichloromethane
1.4 U	UG/KG	Methyl Isobutyl Ketone
1.4 U	UG/KG	1,2-Dichloropropane
1.4 U	UG/KG	Methylcyclohexane
1.4 U	UG/KG	Dibromomethane
1.4 U	UG/KG	trans-1,3-Dichloropropene
1.4 U	UG/KG	Trichloroethene (Trichloroethylene)
1.4 U	UG/KG	Benzene
1.4 U	UG/KG	Dibromochloromethane
1.4 U	UG/KG	1,1,2-Trichloroethane
1.4 U	UG/KG	cis-1,3-Dichloropropene
2.8 U	UG/KG	Bromoform
1.4 U	UG/KG	Bromobenzene
1.4 U	UG/KG	1,1,2,2-Tetrachloroethane
1.4 U	UG/KG	Tetrachloroethene (Tetrachloroethylene)
1.4 U	UG/KG	1,3-Dichloropropane
1.4 U	UG/KG	Methyl Butyl Ketone
1.4 U	UG/KG	Toluene
1.4 U	UG/KG	Chlorobenzene
1.4 U	UG/KG	1,1,1,2-Tetrachloroethane
1.4 U	UG/KG	Ethyl Benzene
2.8 U	UG/KG	(m- and/or p-)Xylene
1.4 U	UG/KG	o-Xylene
1.4 U	UG/KG	Styrene
2.8 U	UG/KG	1,2,3-Trichloropropane
1.4 U	UG/KG	o-Chlorotoluene
1.4 U	UG/KG	p-Chlorotoluene
1.4 U	UG/KG	1,3-Dichlorobenzene
1.4 U	UG/KG	1,4-Dichlorobenzene
1.4 U	UG/KG	1,2-Dichlorobenzene
1.4 U	UG/KG	1,2-Dibromoethane (EDB)
1.4 U	UG/KG	Isopropylbenzene
1.4 U	UG/KG	n-Propylbenzene
1.4 U	UG/KG	1,3,5-Trimethylbenzene
1.4 U	UG/KG	tert-Butylbenzene
1.4 U	UG/KG	1,2,4-Trimethylbenzene
1.4 U	UG/KG	sec-Butylbenzene
1.4 U	UG/KG	p-Isopropyltoluene
1.4 U	UG/KG	n-Butylbenzene
7.1 U	UG/KG	1,2-Dibromo-3-Chloropropane (DBCP)
1.4 U	UG/KG	1,2,4-Trichlorobenzene
1.4 U	UG/KG	Hexachloro-1,3-Butadiene
1.4 U	UG/KG	1,2,3-Trichlorobenzene
28	%	% Moisture

All results below the MQL, but above the MDL reported as J.

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

VOLATILES SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/28/2005 11:30**

Sample **3651** FY **2005** Project: **05-0474**

Volatiles Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SD-07 /
Media: SEDIMENT

Produced by: Hale, Sallie
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 14:35
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
1.3 U	UG/KG	Dichlorodifluoromethane
1.3 U	UG/KG	Chloromethane
1.3 U	UG/KG	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)
1.3 U	UG/KG	Methyl T-Butyl Ether (MTBE)
1.3 U	UG/KG	Bromomethane
1.3 U	UG/KG	Cyclohexane
1.3 U	UG/KG	Vinyl Chloride
1.3 U	UG/KG	Chloroethane
1.3 U	UG/KG	Trichlorofluoromethane (Freon 11)
1.3 U	UG/KG	1,1-Dichloroethene (1,1-Dichloroethylene)
1.3 U	UG/KG	Methylene Chloride
13 U	UG/KG	Acetone
1.3 U	UG/KG	Carbon Disulfide
3.1	UG/KG	Methyl Acetate
1.3 U	UG/KG	1,1-Dichloroethane
1.3 U	UG/KG	cis-1,2-Dichloroethene
1.3 U	UG/KG	2,2-Dichloropropane
6.6 U	UG/KG	Methyl Ethyl Ketone
2.6 U	UG/KG	Bromochloromethane
1.3 U	UG/KG	trans-1,2-Dichloroethene
1.3 U	UG/KG	Chloroform
1.3 U	UG/KG	1,2-Dichloroethane
1.3 U	UG/KG	1,1,1-Trichloroethane
1.3 U	UG/KG	1,1-Dichloropropene
1.3 U	UG/KG	Carbon Tetrachloride
1.3 U	UG/KG	Bromodichloromethane
1.3 U	UG/KG	Methyl Isobutyl Ketone
1.3 U	UG/KG	1,2-Dichloropropane
1.3 U	UG/KG	Methylcyclohexane
1.3 U	UG/KG	Dibromomethane
1.3 U	UG/KG	trans-1,3-Dichloropropene
1.3 U	UG/KG	Trichloroethene (Trichloroethylene)
1.3 U	UG/KG	Benzene
1.3 U	UG/KG	Dibromochloromethane
1.3 U	UG/KG	1,1,2-Trichloroethane
1.3 U	UG/KG	cis-1,3-Dichloropropene
2.6 U	UG/KG	Bromoform
1.3 U	UG/KG	Bromobenzene
1.3 U	UG/KG	1,1,2,2-Tetrachloroethane
1.3 U	UG/KG	Tetrachloroethene (Tetrachloroethylene)
1.3 U	UG/KG	1,3-Dichloropropane
1.3 U	UG/KG	Methyl Butyl Ketone
1.3 U	UG/KG	Toluene
1.3 U	UG/KG	Chlorobenzene
1.3 U	UG/KG	1,1,1,2-Tetrachloroethane
1.3 U	UG/KG	Ethyl Benzene
2.6 U	UG/KG	(m- and/or p-)Xylene
1.3 U	UG/KG	o-Xylene
1.3 U	UG/KG	Styrene
2.6 U	UG/KG	1,2,3-Trichloropropane
1.3 U	UG/KG	o-Chlorotoluene
1.3 U	UG/KG	p-Chlorotoluene
1.3 U	UG/KG	1,3-Dichlorobenzene
1.3 U	UG/KG	1,4-Dichlorobenzene
1.3 U	UG/KG	1,2-Dichlorobenzene
1.3 U	UG/KG	1,2-Dibromoethane (EDB)
1.3 U	UG/KG	Isopropylbenzene
1.3 U	UG/KG	n-Propylbenzene
1.3 U	UG/KG	1,3,5-Trimethylbenzene
1.3 U	UG/KG	tert-Butylbenzene
1.3 U	UG/KG	1,2,4-Trimethylbenzene
1.3 U	UG/KG	sec-Butylbenzene
1.3 U	UG/KG	p-Isopropyltoluene
1.3 U	UG/KG	n-Butylbenzene
6.6 U	UG/KG	1,2-Dibromo-3-Chloropropane (DBCP)
1.3 U	UG/KG	1,2,4-Trichlorobenzene
1.3 U	UG/KG	Hexachloro-1,3-Butadiene
1.3 U	UG/KG	1,2,3-Trichlorobenzene
24	%	% Moisture

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

VOLATILES SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/28/2005 11:30**

Sample **3652** FY **2005** Project: **05-0474**

Volatiles Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SD-08 /
Media: SEDIMENT

Produced by: Hale, Sallie
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 08:30
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
1.2 U	UG/KG	Dichlorodifluoromethane
1.2 U	UG/KG	Chloromethane
1.2 U	UG/KG	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)
1.2 U	UG/KG	Methyl T-Butyl Ether (MTBE)
1.2 U	UG/KG	Bromomethane
1.2 U	UG/KG	Cyclohexane
1.2 U	UG/KG	Vinyl Chloride
1.2 U	UG/KG	Chloroethane
1.2 U	UG/KG	Trichlorofluoromethane (Freon 11)
1.2 U	UG/KG	1,1-Dichloroethene (1,1-Dichloroethylene)
1.2 U	UG/KG	Methylene Chloride
12 U	UG/KG	Acetone
1.2 U	UG/KG	Carbon Disulfide
2.8	UG/KG	Methyl Acetate
1.2 U	UG/KG	1,1-Dichloroethane
1.2 U	UG/KG	cis-1,2-Dichloroethene
1.2 U	UG/KG	2,2-Dichloropropane
6.1 U	UG/KG	Methyl Ethyl Ketone
2.4 U	UG/KG	Bromochloromethane
1.2 U	UG/KG	trans-1,2-Dichloroethene
1.2 U	UG/KG	Chloroform
1.2 U	UG/KG	1,2-Dichloroethane
1.2 U	UG/KG	1,1,1-Trichloroethane
1.2 U	UG/KG	1,1-Dichloropropene
1.2 U	UG/KG	Carbon Tetrachloride
1.2 U	UG/KG	Bromodichloromethane
1.2 U	UG/KG	Methyl Isobutyl Ketone
1.2 U	UG/KG	1,2-Dichloropropane
1.2 U	UG/KG	Methylcyclohexane
1.2 U	UG/KG	Dibromomethane
1.2 U	UG/KG	trans-1,3-Dichloropropene
1.2 U	UG/KG	Trichloroethene (Trichloroethylene)
1.2 U	UG/KG	Benzene
1.2 U	UG/KG	Dibromochloromethane
1.2 U	UG/KG	1,1,2-Trichloroethane

RESULTS	UNITS	ANALYTE
1.2 U	UG/KG	cis-1,3-Dichloropropene
2.4 U	UG/KG	Bromoform
1.2 U	UG/KG	Bromobenzene
1.2 U	UG/KG	1,1,2,2-Tetrachloroethane
1.2 U	UG/KG	Tetrachloroethene (Tetrachloroethylene)
1.2 U	UG/KG	1,3-Dichloropropane
1.2 U	UG/KG	Methyl Butyl Ketone
1.2 U	UG/KG	Toluene
1.2 U	UG/KG	Chlorobenzene
1.2 U	UG/KG	1,1,1,2-Tetrachloroethane
1.2 U	UG/KG	Ethyl Benzene
2.4 U	UG/KG	(m- and/or p-)Xylene
1.2 U	UG/KG	o-Xylene
1.2 U	UG/KG	Styrene
2.4 U	UG/KG	1,2,3-Trichloropropane
1.2 U	UG/KG	o-Chlorotoluene
1.2 U	UG/KG	p-Chlorotoluene
1.2 U	UG/KG	1,3-Dichlorobenzene
1.2 U	UG/KG	1,4-Dichlorobenzene
1.2 U	UG/KG	1,2-Dichlorobenzene
1.2 U	UG/KG	1,2-Dibromoethane (EDB)
1.2 U	UG/KG	Isopropylbenzene
1.2 U	UG/KG	n-Propylbenzene
1.2 U	UG/KG	1,3,5-Trimethylbenzene
1.2 U	UG/KG	tert-Butylbenzene
1.2 U	UG/KG	1,2,4-Trimethylbenzene
1.2 U	UG/KG	sec-Butylbenzene
1.2 U	UG/KG	p-Isopropyltoluene
1.2 U	UG/KG	n-Butylbenzene
6.1 U	UG/KG	1,2-Dibromo-3-Chloropropane (DBCP)
1.2 U	UG/KG	1,2,4-Trichlorobenzene
1.2 U	UG/KG	Hexachloro-1,3-Butadiene
1.2 U	UG/KG	1,2,3-Trichlorobenzene
22	%	% Moisture

U-Analyte not detected at or above reporting limit. ¦ J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

VOLATILES SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/28/2005 11:30**

Sample **3653** FY **2005** Project: **05-0474**

Volatiles Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SD-11 /
Media: SEDIMENT

Produced by: Hale, Sallie
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 11:05
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
1.6 U	UG/KG	Dichlorodifluoromethane
1.6 U	UG/KG	Chloromethane
1.6 U	UG/KG	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)
1.6 U	UG/KG	Methyl T-Butyl Ether (MTBE)
1.6 U	UG/KG	Bromomethane
1.6 U	UG/KG	Cyclohexane
1.6 U	UG/KG	Vinyl Chloride
1.6 U	UG/KG	Chloroethane
1.6 U	UG/KG	Trichlorofluoromethane (Freon 11)
1.6 U	UG/KG	1,1-Dichloroethene (1,1-Dichloroethylene)
1.6 U	UG/KG	Methylene Chloride
16 U	UG/KG	Acetone
1.6 U	UG/KG	Carbon Disulfide
5.2	UG/KG	Methyl Acetate
1.6 U	UG/KG	1,1-Dichloroethane
1.6 U	UG/KG	cis-1,2-Dichloroethene
1.6 U	UG/KG	2,2-Dichloropropane
8.0 U	UG/KG	Methyl Ethyl Ketone
3.2 U	UG/KG	Bromochloromethane
1.6 U	UG/KG	trans-1,2-Dichloroethene
1.6 U	UG/KG	Chloroform
1.6 U	UG/KG	1,2-Dichloroethane
1.6 U	UG/KG	1,1,1-Trichloroethane
1.6 U	UG/KG	1,1-Dichloropropene
1.6 U	UG/KG	Carbon Tetrachloride
1.6 U	UG/KG	Bromodichloromethane
1.6 U	UG/KG	Methyl Isobutyl Ketone
1.6 U	UG/KG	1,2-Dichloropropane
1.6 U	UG/KG	Methylcyclohexane
1.6 U	UG/KG	Dibromomethane
1.6 U	UG/KG	trans-1,3-Dichloropropene
1.6 U	UG/KG	Trichloroethene (Trichloroethylene)
1.6 U	UG/KG	Benzene
1.6 U	UG/KG	Dibromochloromethane
1.6 U	UG/KG	1,1,2-Trichloroethane

RESULTS	UNITS	ANALYTE
1.6 U	UG/KG	cis-1,3-Dichloropropene
3.2 U	UG/KG	Bromoform
1.6 U	UG/KG	Bromobenzene
1.6 U	UG/KG	1,1,2,2-Tetrachloroethane
1.6 U	UG/KG	Tetrachloroethene (Tetrachloroethylene)
1.6 U	UG/KG	1,3-Dichloropropane
1.6 U	UG/KG	Methyl Butyl Ketone
1.6 U	UG/KG	Toluene
1.6 U	UG/KG	Chlorobenzene
1.6 U	UG/KG	1,1,1,2-Tetrachloroethane
1.6 U	UG/KG	Ethyl Benzene
3.2 U	UG/KG	(m- and/or p-)Xylene
1.6 U	UG/KG	o-Xylene
1.6 U	UG/KG	Styrene
3.2 U	UG/KG	1,2,3-Trichloropropane
1.6 U	UG/KG	o-Chlorotoluene
1.6 U	UG/KG	p-Chlorotoluene
1.6 U	UG/KG	1,3-Dichlorobenzene
1.6 U	UG/KG	1,4-Dichlorobenzene
1.6 U	UG/KG	1,2-Dichlorobenzene
1.6 U	UG/KG	1,2-Dibromoethane (EDB)
1.6 U	UG/KG	Isopropylbenzene
1.6 U	UG/KG	n-Propylbenzene
1.6 U	UG/KG	1,3,5-Trimethylbenzene
1.6 U	UG/KG	tert-Butylbenzene
1.6 U	UG/KG	1,2,4-Trimethylbenzene
1.6 U	UG/KG	sec-Butylbenzene
1.6 U	UG/KG	p-Isopropyltoluene
1.6 U	UG/KG	n-Butylbenzene
8.0 U	UG/KG	1,2-Dibromo-3-Chloropropane (DBCP)
1.6 U	UG/KG	1,2,4-Trichlorobenzene
1.6 U	UG/KG	Hexachloro-1,3-Butadiene
1.6 U	UG/KG	1,2,3-Trichlorobenzene
28	%	% Moisture

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

VOLATILES SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/28/2005 11:30**

Sample **3663** FY **2005** Project: **05-0474**

Volatiles Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SW-09 /
Media: SURFACE WATER

Produced by: Hale, Sallie
Requestor:
Project Leader: AMASTERS
Beginning: 03/28/2005 11:45
Ending:

RESULTS	UNITS	ANALYTE
1.0 UJ	UG/L	Dichlorodifluoromethane
1.0 U	UG/L	Chloromethane
1.0 U	UG/L	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)
1.0 U	UG/L	Methyl T-Butyl Ether (MTBE)
1.0 U	UG/L	Bromomethane
1.0 U	UG/L	Cyclohexane
1.0 U	UG/L	Vinyl Chloride
1.0 U	UG/L	Chloroethane
1.0 U	UG/L	Trichlorofluoromethane (Freon 11)
1.0 U	UG/L	1,1-Dichloroethene (1,1-Dichloroethylene)
1.0 U	UG/L	Methylene Chloride
5.0 UJ	UG/L	Acetone
1.0 U	UG/L	Carbon Disulfide
2.0 U	UG/L	Methyl Acetate
1.0 U	UG/L	1,1-Dichloroethane
1.0 U	UG/L	cis-1,2-Dichloroethene
1.0 U	UG/L	2,2-Dichloropropane
5.0 UJ	UG/L	Methyl Ethyl Ketone
1.0 U	UG/L	Bromochloromethane
1.0 U	UG/L	trans-1,2-Dichloroethene
0.20 AJ	UG/L	Chloroform
1.0 U	UG/L	1,2-Dichloroethane
1.0 U	UG/L	1,1,1-Trichloroethane
1.0 U	UG/L	1,1-Dichloropropene
1.0 U	UG/L	Carbon Tetrachloride
1.0 U	UG/L	Bromodichloromethane
5.0 U	UG/L	Methyl Isobutyl Ketone
1.0 U	UG/L	1,2-Dichloropropane
1.0 U	UG/L	Methylcyclohexane
1.0 U	UG/L	Dibromomethane
1.0 U	UG/L	trans-1,3-Dichloropropene
1.0 U	UG/L	Trichloroethene (Trichloroethylene)
1.0 U	UG/L	Benzene
1.0 U	UG/L	Dibromochloromethane
1.0 U	UG/L	1,1,2-Trichloroethane

RESULTS	UNITS	ANALYTE
1.0 U	UG/L	cis-1,3-Dichloropropene
1.0 U	UG/L	Bromoform
1.0 U	UG/L	Bromobenzene
1.0 U	UG/L	1,1,2,2-Tetrachloroethane
1.0 U	UG/L	Tetrachloroethene (Tetrachloroethylene)
1.0 U	UG/L	1,3-Dichloropropane
5.0 UJ	UG/L	Methyl Butyl Ketone
0.12 AJ	UG/L	Toluene
1.0 U	UG/L	Chlorobenzene
1.0 U	UG/L	1,1,1,2-Tetrachloroethane
1.0 U	UG/L	Ethyl Benzene
2.0 U	UG/L	(m- and/or p-)Xylene
1.0 U	UG/L	o-Xylene
1.0 U	UG/L	Styrene
1.0 U	UG/L	1,2,3-Trichloropropane
1.0 U	UG/L	o-Chlorotoluene
1.0 U	UG/L	p-Chlorotoluene
1.0 U	UG/L	1,3-Dichlorobenzene
1.0 U	UG/L	1,4-Dichlorobenzene
1.0 U	UG/L	1,2-Dichlorobenzene
1.0 U	UG/L	1,2-Dibromoethane (EDB)
1.0 U	UG/L	Isopropylbenzene
1.0 U	UG/L	n-Propylbenzene
1.0 U	UG/L	1,3,5-Trimethylbenzene
1.0 U	UG/L	tert-Butylbenzene
1.0 U	UG/L	1,2,4-Trimethylbenzene
1.0 U	UG/L	sec-Butylbenzene
1.0 U	UG/L	p-Isopropyltoluene
1.0 U	UG/L	n-Butylbenzene
2.0 U	UG/L	1,2-Dibromo-3-Chloropropane (DBCP)
2.0 U	UG/L	1,2,4-Trichlorobenzene
1.0 U	UG/L	Hexachloro-1,3-Butadiene
1.0 U	UG/L	1,2,3-Trichlorobenzene

Dichlorodifluoromethane, Acetone, MEK and MBK reported as J due to low recovery in CCV

MEK qualified because %RSD >15 on ICAL

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

VOLATILES SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/28/2005 11:30**

Sample **3664** FY **2005** Project: **05-0474**

Volatiles Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-TB-01 /
Media: TRIP BLANK - WATER

Produced by: Hale, Sallie
Requestor:
Project Leader: AMASTERS
Beginning: 03/28/2005 14:15
Ending:

RESULTS	UNITS	ANALYTE
1.0 UJ	UG/L	Dichlorodifluoromethane
1.0 U	UG/L	Chloromethane
1.0 U	UG/L	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)
1.0 U	UG/L	Methyl T-Butyl Ether (MTBE)
1.0 U	UG/L	Bromomethane
1.0 U	UG/L	Cyclohexane
1.0 U	UG/L	Vinyl Chloride
1.0 U	UG/L	Chloroethane
1.0 U	UG/L	Trichlorofluoromethane (Freon 11)
1.0 U	UG/L	1,1-Dichloroethene (1,1-Dichloroethylene)
1.0 U	UG/L	Methylene Chloride
5.0 UJ	UG/L	Acetone
1.0 U	UG/L	Carbon Disulfide
2.0 U	UG/L	Methyl Acetate
1.0 U	UG/L	1,1-Dichloroethane
1.0 U	UG/L	cis-1,2-Dichloroethene
1.0 U	UG/L	2,2-Dichloropropane
5.0 UJ	UG/L	Methyl Ethyl Ketone
1.0 U	UG/L	Bromochloromethane
1.0 U	UG/L	trans-1,2-Dichloroethene
14	UG/L	Chloroform
1.0 U	UG/L	1,2-Dichloroethane
1.0 U	UG/L	1,1,1-Trichloroethane
1.0 U	UG/L	1,1-Dichloropropene
1.0 U	UG/L	Carbon Tetrachloride
1.0 U	UG/L	Bromodichloromethane
5.0 U	UG/L	Methyl Isobutyl Ketone
1.0 U	UG/L	1,2-Dichloropropane
1.0 U	UG/L	Methylcyclohexane
1.0 U	UG/L	Dibromomethane
1.0 U	UG/L	trans-1,3-Dichloropropene
1.0 U	UG/L	Trichloroethene (Trichloroethylene)
1.0 U	UG/L	Benzene
1.0 U	UG/L	Dibromochloromethane
1.0 U	UG/L	1,1,2-Trichloroethane

RESULTS	UNITS	ANALYTE
1.0 U	UG/L	cis-1,3-Dichloropropene
1.0 U	UG/L	Bromoform
1.0 U	UG/L	Bromobenzene
1.0 U	UG/L	1,1,2,2-Tetrachloroethane
1.0 U	UG/L	Tetrachloroethene (Tetrachloroethylene)
1.0 U	UG/L	1,3-Dichloropropane
5.0 UJ	UG/L	Methyl Butyl Ketone
1.0 U	UG/L	Toluene
1.0 U	UG/L	Chlorobenzene
1.0 U	UG/L	1,1,1,2-Tetrachloroethane
1.0 U	UG/L	Ethyl Benzene
2.0 U	UG/L	(m- and/or p-)Xylene
1.0 U	UG/L	o-Xylene
1.0 U	UG/L	Styrene
1.0 U	UG/L	1,2,3-Trichloropropane
1.0 U	UG/L	o-Chlorotoluene
1.0 U	UG/L	p-Chlorotoluene
1.0 U	UG/L	1,3-Dichlorobenzene
1.0 U	UG/L	1,4-Dichlorobenzene
1.0 U	UG/L	1,2-Dichlorobenzene
1.0 U	UG/L	1,2-Dibromoethane (EDB)
1.0 U	UG/L	Isopropylbenzene
1.0 U	UG/L	n-Propylbenzene
1.0 U	UG/L	1,3,5-Trimethylbenzene
1.0 U	UG/L	tert-Butylbenzene
1.0 U	UG/L	1,2,4-Trimethylbenzene
1.0 U	UG/L	sec-Butylbenzene
1.0 U	UG/L	p-Isopropyltoluene
1.0 U	UG/L	n-Butylbenzene
2.0 U	UG/L	1,2-Dibromo-3-Chloropropane (DBCP)
2.0 U	UG/L	1,2,4-Trichlorobenzene
1.0 U	UG/L	Hexachloro-1,3-Butadiene
1.0 U	UG/L	1,2,3-Trichlorobenzene

Dichlorodifluoromethane, Acetone, MEK and MBK reported as J due to low recovery in CCV

MEK qualified because %RSD >15 on ICAL

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

VOLATILES SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/28/2005 11:30**

Sample **3770** FY **2005** Project: **05-0474**

Volatiles Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SW-01 / VC-SW-01
Media: SURFACE WATER

Produced by: Hale, Sallie
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 13:40
Ending:

RESULTS	UNITS	ANALYTE
1.0 U	UG/L	Dichlorodifluoromethane
1.0 U	UG/L	Chloromethane
1.0 U	UG/L	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)
1.0 U	UG/L	Methyl T-Butyl Ether (MTBE)
1.0 U	UG/L	Bromomethane
1.0 U	UG/L	Cyclohexane
1.0 U	UG/L	Vinyl Chloride
1.0 U	UG/L	Chloroethane
1.0 U	UG/L	Trichlorofluoromethane (Freon 11)
1.0 U	UG/L	1,1-Dichloroethene (1,1-Dichloroethylene)
1.0 U	UG/L	Methylene Chloride
5.0 U	UG/L	Acetone
1.0 U	UG/L	Carbon Disulfide
2.0 U	UG/L	Methyl Acetate
1.0 U	UG/L	1,1-Dichloroethane
1.0 U	UG/L	cis-1,2-Dichloroethene
1.0 U	UG/L	2,2-Dichloropropane
5.0 UJ	UG/L	Methyl Ethyl Ketone
1.0 U	UG/L	Bromochloromethane
1.0 U	UG/L	trans-1,2-Dichloroethene
1.0 U	UG/L	Chloroform
1.0 U	UG/L	1,2-Dichloroethane
1.0 U	UG/L	1,1,1-Trichloroethane
1.0 U	UG/L	1,1-Dichloropropene
1.0 U	UG/L	Carbon Tetrachloride
1.0 U	UG/L	Bromodichloromethane
5.0 U	UG/L	Methyl Isobutyl Ketone
1.0 U	UG/L	1,2-Dichloropropane
1.0 U	UG/L	Methylcyclohexane
1.0 U	UG/L	Dibromomethane
1.0 U	UG/L	trans-1,3-Dichloropropene
1.0 U	UG/L	Trichloroethene (Trichloroethylene)
1.0 U	UG/L	Benzene
1.0 U	UG/L	Dibromochloromethane
1.0 U	UG/L	1,1,2-Trichloroethane

RESULTS	UNITS	ANALYTE
1.0 U	UG/L	cis-1,3-Dichloropropene
1.0 U	UG/L	Bromoform
1.0 U	UG/L	Bromobenzene
1.0 U	UG/L	1,1,2,2-Tetrachloroethane
1.0 U	UG/L	Tetrachloroethene (Tetrachloroethylene)
1.0 U	UG/L	1,3-Dichloropropane
5.0 U	UG/L	Methyl Butyl Ketone
0.16 J	UG/L	Toluene
1.0 U	UG/L	Chlorobenzene
1.0 U	UG/L	1,1,1,2-Tetrachloroethane
1.0 U	UG/L	Ethyl Benzene
2.0 U	UG/L	(m- and/or p-)Xylene
1.0 U	UG/L	o-Xylene
1.0 U	UG/L	Styrene
1.0 U	UG/L	1,2,3-Trichloropropane
1.0 U	UG/L	o-Chlorotoluene
1.0 U	UG/L	p-Chlorotoluene
1.0 U	UG/L	1,3-Dichlorobenzene
1.0 U	UG/L	1,4-Dichlorobenzene
1.0 U	UG/L	1,2-Dichlorobenzene
1.0 U	UG/L	1,2-Dibromoethane (EDB)
1.0 U	UG/L	Isopropylbenzene
1.0 U	UG/L	n-Propylbenzene
1.0 U	UG/L	1,3,5-Trimethylbenzene
1.0 U	UG/L	tert-Butylbenzene
1.0 U	UG/L	1,2,4-Trimethylbenzene
1.0 U	UG/L	sec-Butylbenzene
1.0 U	UG/L	p-Isopropyltoluene
1.0 U	UG/L	n-Butylbenzene
2.0 U	UG/L	1,2-Dibromo-3-Chloropropane (DBCP)
2.0 U	UG/L	1,2,4-Trichlorobenzene
1.0 U	UG/L	Hexachloro-1,3-Butadiene
1.0 U	UG/L	1,2,3-Trichlorobenzene

MEK RSD >15% on ICAL
Toluene J-qualified because value is >MDL but <MQL

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

VOLATILES SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/28/2005 11:30**

Sample **3771** FY **2005** Project: **05-0474**

Volatiles Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SW-04 / VC-SW-04
Media: SURFACE WATER

Produced by: Hale, Sallie
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 11:35
Ending:

RESULTS	UNITS	ANALYTE
1.0 U	UG/L	Dichlorodifluoromethane
1.0 U	UG/L	Chloromethane
1.0 U	UG/L	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)
1.0 U	UG/L	Methyl T-Butyl Ether (MTBE)
1.0 U	UG/L	Bromomethane
1.0 U	UG/L	Cyclohexane
1.0 U	UG/L	Vinyl Chloride
1.0 U	UG/L	Chloroethane
1.0 U	UG/L	Trichlorofluoromethane (Freon 11)
1.0 U	UG/L	1,1-Dichloroethene (1,1-Dichloroethylene)
1.0 U	UG/L	Methylene Chloride
5.0 U	UG/L	Acetone
1.0 U	UG/L	Carbon Disulfide
2.0 U	UG/L	Methyl Acetate
1.0 U	UG/L	1,1-Dichloroethane
1.0 U	UG/L	cis-1,2-Dichloroethene
1.0 U	UG/L	2,2-Dichloropropane
5.0 UJ	UG/L	Methyl Ethyl Ketone
1.0 U	UG/L	Bromochloromethane
1.0 U	UG/L	trans-1,2-Dichloroethene
0.38 J	UG/L	Chloroform
1.0 U	UG/L	1,2-Dichloroethane
1.0 U	UG/L	1,1,1-Trichloroethane
1.0 U	UG/L	1,1-Dichloropropene
1.0 U	UG/L	Carbon Tetrachloride
0.13 J	UG/L	Bromodichloromethane
5.0 U	UG/L	Methyl Isobutyl Ketone
1.0 U	UG/L	1,2-Dichloropropane
1.0 U	UG/L	Methylcyclohexane
1.0 U	UG/L	Dibromomethane
1.0 U	UG/L	trans-1,3-Dichloropropene
1.0 U	UG/L	Trichloroethene (Trichloroethylene)
1.0 U	UG/L	Benzene
1.0 U	UG/L	Dibromochloromethane
1.0 U	UG/L	1,1,2-Trichloroethane

RESULTS	UNITS	ANALYTE
1.0 U	UG/L	cis-1,3-Dichloropropene
1.0 U	UG/L	Bromoform
1.0 U	UG/L	Bromobenzene
1.0 U	UG/L	1,1,2,2-Tetrachloroethane
1.0 U	UG/L	Tetrachloroethene (Tetrachloroethylene)
1.0 U	UG/L	1,3-Dichloropropane
5.0 U	UG/L	Methyl Butyl Ketone
0.11 J	UG/L	Toluene
1.0 U	UG/L	Chlorobenzene
1.0 U	UG/L	1,1,1,2-Tetrachloroethane
1.0 U	UG/L	Ethyl Benzene
2.0 U	UG/L	(m- and/or p-)Xylene
1.0 U	UG/L	o-Xylene
1.0 U	UG/L	Styrene
1.0 U	UG/L	1,2,3-Trichloropropane
1.0 U	UG/L	o-Chlorotoluene
1.0 U	UG/L	p-Chlorotoluene
1.0 U	UG/L	1,3-Dichlorobenzene
1.0 U	UG/L	1,4-Dichlorobenzene
1.0 U	UG/L	1,2-Dichlorobenzene
1.0 U	UG/L	1,2-Dibromoethane (EDB)
1.0 U	UG/L	Isopropylbenzene
1.0 U	UG/L	n-Propylbenzene
1.0 U	UG/L	1,3,5-Trimethylbenzene
1.0 U	UG/L	tert-Butylbenzene
1.0 U	UG/L	1,2,4-Trimethylbenzene
1.0 U	UG/L	sec-Butylbenzene
1.0 U	UG/L	p-Isopropyltoluene
1.0 U	UG/L	n-Butylbenzene
2.0 U	UG/L	1,2-Dibromo-3-Chloropropane (DBCP)
2.0 U	UG/L	1,2,4-Trichlorobenzene
1.0 U	UG/L	Hexachloro-1,3-Butadiene
1.0 U	UG/L	1,2,3-Trichlorobenzene

MEK RSD >15% on ICAL
All other J-qualified compound values are >MDL but <MQL

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

VOLATILES SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/28/2005 11:30**

Sample **3772** FY **2005** Project: **05-0474**

Volatiles Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SW-07 / VC-SW-07
Media: SURFACE WATER

Produced by: Hale, Sallie
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 14:35
Ending:

RESULTS	UNITS	ANALYTE
1.0 U	UG/L	Dichlorodifluoromethane
1.0 U	UG/L	Chloromethane
1.0 U	UG/L	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)
1.0 U	UG/L	Methyl T-Butyl Ether (MTBE)
1.0 U	UG/L	Bromomethane
1.0 U	UG/L	Cyclohexane
1.0 U	UG/L	Vinyl Chloride
1.0 U	UG/L	Chloroethane
1.0 U	UG/L	Trichlorofluoromethane (Freon 11)
1.0 U	UG/L	1,1-Dichloroethene (1,1-Dichloroethylene)
1.0 U	UG/L	Methylene Chloride
5.0 U	UG/L	Acetone
1.0 U	UG/L	Carbon Disulfide
2.0 U	UG/L	Methyl Acetate
1.0 U	UG/L	1,1-Dichloroethane
1.0 U	UG/L	cis-1,2-Dichloroethene
1.0 U	UG/L	2,2-Dichloropropane
5.0 UJ	UG/L	Methyl Ethyl Ketone
1.0 U	UG/L	Bromochloromethane
1.0 U	UG/L	trans-1,2-Dichloroethene
1.0 U	UG/L	Chloroform
1.0 U	UG/L	1,2-Dichloroethane
1.0 U	UG/L	1,1,1-Trichloroethane
1.0 U	UG/L	1,1-Dichloropropene
1.0 U	UG/L	Carbon Tetrachloride
1.0 U	UG/L	Bromodichloromethane
5.0 U	UG/L	Methyl Isobutyl Ketone
1.0 U	UG/L	1,2-Dichloropropane
1.0 U	UG/L	Methylcyclohexane
1.0 U	UG/L	Dibromomethane
1.0 U	UG/L	trans-1,3-Dichloropropene
1.0 U	UG/L	Trichloroethene (Trichloroethylene)
1.0 U	UG/L	Benzene
1.0 U	UG/L	Dibromochloromethane
1.0 U	UG/L	1,1,2-Trichloroethane

RESULTS	UNITS	ANALYTE
1.0 U	UG/L	cis-1,3-Dichloropropene
1.0 U	UG/L	Bromoform
1.0 U	UG/L	Bromobenzene
1.0 U	UG/L	1,1,2,2-Tetrachloroethane
1.0 U	UG/L	Tetrachloroethene (Tetrachloroethylene)
1.0 U	UG/L	1,3-Dichloropropane
5.0 U	UG/L	Methyl Butyl Ketone
1.0 U	UG/L	Toluene
1.0 U	UG/L	Chlorobenzene
1.0 U	UG/L	1,1,1,2-Tetrachloroethane
1.0 U	UG/L	Ethyl Benzene
2.0 U	UG/L	(m- and/or p-)Xylene
1.0 U	UG/L	o-Xylene
1.0 U	UG/L	Styrene
1.0 U	UG/L	1,2,3-Trichloropropane
1.0 U	UG/L	o-Chlorotoluene
1.0 U	UG/L	p-Chlorotoluene
1.0 U	UG/L	1,3-Dichlorobenzene
1.0 U	UG/L	1,4-Dichlorobenzene
1.0 U	UG/L	1,2-Dichlorobenzene
1.0 U	UG/L	1,2-Dibromoethane (EDB)
1.0 U	UG/L	Isopropylbenzene
1.0 U	UG/L	n-Propylbenzene
1.0 U	UG/L	1,3,5-Trimethylbenzene
1.0 U	UG/L	tert-Butylbenzene
1.0 U	UG/L	1,2,4-Trimethylbenzene
1.0 U	UG/L	sec-Butylbenzene
1.0 U	UG/L	p-Isopropyltoluene
1.0 U	UG/L	n-Butylbenzene
2.0 U	UG/L	1,2-Dibromo-3-Chloropropane (DBCP)
2.0 U	UG/L	1,2,4-Trichlorobenzene
1.0 U	UG/L	Hexachloro-1,3-Butadiene
1.0 U	UG/L	1,2,3-Trichlorobenzene

MEK RSD >15% on ICAL

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

VOLATILES SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/28/2005 11:30**

Sample **3773** FY **2005** Project: **05-0474**

Volatiles Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SW-08 / VC-SW-08
Media: SURFACE WATER

Produced by: Hale, Sallie
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 08:30
Ending:

RESULTS	UNITS	ANALYTE
1.0 U	UG/L	Dichlorodifluoromethane
1.0 U	UG/L	Chloromethane
1.0 U	UG/L	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)
1.0 U	UG/L	Methyl T-Butyl Ether (MTBE)
1.0 U	UG/L	Bromomethane
1.0 U	UG/L	Cyclohexane
1.0 U	UG/L	Vinyl Chloride
1.0 U	UG/L	Chloroethane
1.0 U	UG/L	Trichlorofluoromethane (Freon 11)
1.0 U	UG/L	1,1-Dichloroethene (1,1-Dichloroethylene)
1.0 U	UG/L	Methylene Chloride
5.0 U	UG/L	Acetone
1.0 U	UG/L	Carbon Disulfide
2.0 U	UG/L	Methyl Acetate
1.0 U	UG/L	1,1-Dichloroethane
1.0 U	UG/L	cis-1,2-Dichloroethene
1.0 U	UG/L	2,2-Dichloropropane
5.0 UJ	UG/L	Methyl Ethyl Ketone
1.0 U	UG/L	Bromochloromethane
1.0 U	UG/L	trans-1,2-Dichloroethene
1.4	UG/L	Chloroform
1.0 U	UG/L	1,2-Dichloroethane
1.0 U	UG/L	1,1,1-Trichloroethane
1.0 U	UG/L	1,1-Dichloropropene
1.4	UG/L	Carbon Tetrachloride
1.0 U	UG/L	Bromodichloromethane
5.0 U	UG/L	Methyl Isobutyl Ketone
1.0 U	UG/L	1,2-Dichloropropane
1.0 U	UG/L	Methylcyclohexane
1.0 U	UG/L	Dibromomethane
1.0 U	UG/L	trans-1,3-Dichloropropene
1.0 U	UG/L	Trichloroethene (Trichloroethylene)
1.0 U	UG/L	Benzene
1.0 U	UG/L	Dibromochloromethane
1.0 U	UG/L	1,1,2-Trichloroethane

RESULTS	UNITS	ANALYTE
1.0 U	UG/L	cis-1,3-Dichloropropene
1.0 U	UG/L	Bromoform
1.0 U	UG/L	Bromobenzene
1.0 U	UG/L	1,1,2,2-Tetrachloroethane
1.0 U	UG/L	Tetrachloroethene (Tetrachloroethylene)
1.0 U	UG/L	1,3-Dichloropropane
5.0 U	UG/L	Methyl Butyl Ketone
0.079 J	UG/L	Toluene
1.0 U	UG/L	Chlorobenzene
1.0 U	UG/L	1,1,1,2-Tetrachloroethane
1.0 U	UG/L	Ethyl Benzene
2.0 U	UG/L	(m- and/or p-)Xylene
1.0 U	UG/L	o-Xylene
1.0 U	UG/L	Styrene
1.0 U	UG/L	1,2,3-Trichloropropane
1.0 U	UG/L	o-Chlorotoluene
1.0 U	UG/L	p-Chlorotoluene
1.0 U	UG/L	1,3-Dichlorobenzene
1.0 U	UG/L	1,4-Dichlorobenzene
1.0 U	UG/L	1,2-Dichlorobenzene
1.0 U	UG/L	1,2-Dibromoethane (EDB)
1.0 U	UG/L	Isopropylbenzene
1.0 U	UG/L	n-Propylbenzene
1.0 U	UG/L	1,3,5-Trimethylbenzene
1.0 U	UG/L	tert-Butylbenzene
1.0 U	UG/L	1,2,4-Trimethylbenzene
1.0 U	UG/L	sec-Butylbenzene
1.0 U	UG/L	p-Isopropyltoluene
1.0 U	UG/L	n-Butylbenzene
2.0 U	UG/L	1,2-Dibromo-3-Chloropropane (DBCP)
2.0 U	UG/L	1,2,4-Trichlorobenzene
1.0 U	UG/L	Hexachloro-1,3-Butadiene
1.0 U	UG/L	1,2,3-Trichlorobenzene

MEK RSD >15% on ICAL
Toluene J-qualified because value is >MDL but <MQL

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

VOLATILES SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/28/2005 11:30**

Sample **3774** FY **2005** Project: **05-0474**

Volatiles Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-MW-13 / VC-MW-13
Media: GROUNDWATER

Produced by: Hale, Sallie
Requestor:
Project Leader: AMASTERS
Beginning: 03/30/2005 14:50
Ending:

RESULTS	UNITS	ANALYTE
1.0 U	UG/L	Dichlorodifluoromethane
1.0 U	UG/L	Chloromethane
1.0 U	UG/L	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)
1.0 U	UG/L	Methyl T-Butyl Ether (MTBE)
1.0 U	UG/L	Bromomethane
1.0 U	UG/L	Cyclohexane
1.0 U	UG/L	Vinyl Chloride
1.0 U	UG/L	Chloroethane
1.0 U	UG/L	Trichlorofluoromethane (Freon 11)
1.0 U	UG/L	1,1-Dichloroethene (1,1-Dichloroethylene)
1.0 U	UG/L	Methylene Chloride
5.0 U	UG/L	Acetone
1.0 U	UG/L	Carbon Disulfide
2.0 U	UG/L	Methyl Acetate
1.0 U	UG/L	1,1-Dichloroethane
1.0 U	UG/L	cis-1,2-Dichloroethene
1.0 U	UG/L	2,2-Dichloropropane
5.0 UJ	UG/L	Methyl Ethyl Ketone
1.0 U	UG/L	Bromochloromethane
1.0 U	UG/L	trans-1,2-Dichloroethene
1.1	UG/L	Chloroform
1.0 U	UG/L	1,2-Dichloroethane
1.0 U	UG/L	1,1,1-Trichloroethane
1.0 U	UG/L	1,1-Dichloropropene
1.0 U	UG/L	Carbon Tetrachloride
1.0 U	UG/L	Bromodichloromethane
5.0 U	UG/L	Methyl Isobutyl Ketone
1.0 U	UG/L	1,2-Dichloropropane
1.0 U	UG/L	Methylcyclohexane
1.0 U	UG/L	Dibromomethane
1.0 U	UG/L	trans-1,3-Dichloropropene
1.0 U	UG/L	Trichloroethene (Trichloroethylene)
1.0 U	UG/L	Benzene
1.0 U	UG/L	Dibromochloromethane
1.0 U	UG/L	1,1,2-Trichloroethane

RESULTS	UNITS	ANALYTE
1.0 U	UG/L	cis-1,3-Dichloropropene
1.0 U	UG/L	Bromoform
1.0 U	UG/L	Bromobenzene
1.0 U	UG/L	1,1,2,2-Tetrachloroethane
1.0 U	UG/L	Tetrachloroethene (Tetrachloroethylene)
1.0 U	UG/L	1,3-Dichloropropane
5.0 U	UG/L	Methyl Butyl Ketone
1.0 U	UG/L	Toluene
1.0 U	UG/L	Chlorobenzene
1.0 U	UG/L	1,1,1,2-Tetrachloroethane
1.0 U	UG/L	Ethyl Benzene
2.0 U	UG/L	(m- and/or p-)Xylene
1.0 U	UG/L	o-Xylene
1.0 U	UG/L	Styrene
1.0 U	UG/L	1,2,3-Trichloropropane
1.0 U	UG/L	o-Chlorotoluene
1.0 U	UG/L	p-Chlorotoluene
1.0 U	UG/L	1,3-Dichlorobenzene
1.0 U	UG/L	1,4-Dichlorobenzene
1.0 U	UG/L	1,2-Dichlorobenzene
1.0 U	UG/L	1,2-Dibromoethane (EDB)
1.0 U	UG/L	Isopropylbenzene
1.0 U	UG/L	n-Propylbenzene
1.0 U	UG/L	1,3,5-Trimethylbenzene
1.0 U	UG/L	tert-Butylbenzene
1.0 U	UG/L	1,2,4-Trimethylbenzene
1.0 U	UG/L	sec-Butylbenzene
1.0 U	UG/L	p-Isopropyltoluene
1.0 U	UG/L	n-Butylbenzene
2.0 U	UG/L	1,2-Dibromo-3-Chloropropane (DBCP)
2.0 U	UG/L	1,2,4-Trichlorobenzene
1.0 U	UG/L	Hexachloro-1,3-Butadiene
1.0 U	UG/L	1,2,3-Trichlorobenzene

MEK RSD >15% on ICAL

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

VOLATILES SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/28/2005 11:30**

Sample **3775** FY **2005** Project: **05-0474**

Volatiles Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-MW-16 / VW-MW-14
Media: GROUNDWATER

Produced by: Hale, Sallie
Requestor:
Project Leader: AMASTERS
Beginning: 03/31/2005 11:45
Ending:

RESULTS	UNITS	ANALYTE
1.0 U	UG/L	Dichlorodifluoromethane
1.0 U	UG/L	Chloromethane
1.0 U	UG/L	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)
1.0 U	UG/L	Methyl T-Butyl Ether (MTBE)
1.0 U	UG/L	Bromomethane
1.0 U	UG/L	Cyclohexane
1.0 U	UG/L	Vinyl Chloride
1.0 U	UG/L	Chloroethane
1.0 U	UG/L	Trichlorofluoromethane (Freon 11)
1.0 U	UG/L	1,1-Dichloroethene (1,1-Dichloroethylene)
1.0 U	UG/L	Methylene Chloride
5.0 U	UG/L	Acetone
1.0 U	UG/L	Carbon Disulfide
2.0 U	UG/L	Methyl Acetate
1.0 U	UG/L	1,1-Dichloroethane
1.0 U	UG/L	cis-1,2-Dichloroethene
1.0 U	UG/L	2,2-Dichloropropane
5.0 UJ	UG/L	Methyl Ethyl Ketone
1.0 U	UG/L	Bromochloromethane
1.0 U	UG/L	trans-1,2-Dichloroethene
1.0 U	UG/L	Chloroform
1.0 U	UG/L	1,2-Dichloroethane
1.0 U	UG/L	1,1,1-Trichloroethane
1.0 U	UG/L	1,1-Dichloropropene
1.0 U	UG/L	Carbon Tetrachloride
1.0 U	UG/L	Bromodichloromethane
5.0 U	UG/L	Methyl Isobutyl Ketone
1.0 U	UG/L	1,2-Dichloropropane
1.0 U	UG/L	Methylcyclohexane
1.0 U	UG/L	Dibromomethane
1.0 U	UG/L	trans-1,3-Dichloropropene
1.0 U	UG/L	Trichloroethene (Trichloroethylene)
1.0 U	UG/L	Benzene
1.0 U	UG/L	Dibromochloromethane
1.0 U	UG/L	1,1,2-Trichloroethane

RESULTS	UNITS	ANALYTE
1.0 U	UG/L	cis-1,3-Dichloropropene
1.0 U	UG/L	Bromoform
1.0 U	UG/L	Bromobenzene
1.0 U	UG/L	1,1,2,2-Tetrachloroethane
1.0 U	UG/L	Tetrachloroethene (Tetrachloroethylene)
1.0 U	UG/L	1,3-Dichloropropane
5.0 U	UG/L	Methyl Butyl Ketone
1.0 U	UG/L	Toluene
1.0 U	UG/L	Chlorobenzene
1.0 U	UG/L	1,1,1,2-Tetrachloroethane
1.0 U	UG/L	Ethyl Benzene
2.0 U	UG/L	(m- and/or p-)Xylene
1.0 U	UG/L	o-Xylene
1.0 U	UG/L	Styrene
1.0 U	UG/L	1,2,3-Trichloropropane
1.0 U	UG/L	o-Chlorotoluene
1.0 U	UG/L	p-Chlorotoluene
1.0 U	UG/L	1,3-Dichlorobenzene
1.0 U	UG/L	1,4-Dichlorobenzene
1.0 U	UG/L	1,2-Dichlorobenzene
1.0 U	UG/L	1,2-Dibromoethane (EDB)
1.0 U	UG/L	Isopropylbenzene
1.0 U	UG/L	n-Propylbenzene
1.0 U	UG/L	1,3,5-Trimethylbenzene
1.0 U	UG/L	tert-Butylbenzene
1.0 U	UG/L	1,2,4-Trimethylbenzene
1.0 U	UG/L	sec-Butylbenzene
1.0 U	UG/L	p-Isopropyltoluene
1.0 U	UG/L	n-Butylbenzene
2.0 U	UG/L	1,2-Dibromo-3-Chloropropane (DBCP)
2.0 U	UG/L	1,2,4-Trichlorobenzene
1.0 U	UG/L	Hexachloro-1,3-Butadiene
1.0 U	UG/L	1,2,3-Trichlorobenzene

MEK RSD >15% on ICAL

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

VOLATILES SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/28/2005 11:30**

Sample **3776** FY **2005** Project: **05-0474**

Volatiles Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-MW-1C / VC-MW-1C
Media: GROUNDWATER

Produced by: Hale, Sallie
Requestor:
Project Leader: AMASTERS
Beginning: 03/31/2005 10:35
Ending:

RESULTS	UNITS	ANALYTE
1.0 U	UG/L	Dichlorodifluoromethane
1.0 U	UG/L	Chloromethane
1.0 U	UG/L	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)
1.0 U	UG/L	Methyl T-Butyl Ether (MTBE)
1.0 U	UG/L	Bromomethane
1.0 U	UG/L	Cyclohexane
1.0 U	UG/L	Vinyl Chloride
1.0 U	UG/L	Chloroethane
1.0 U	UG/L	Trichlorofluoromethane (Freon 11)
1.0 U	UG/L	1,1-Dichloroethene (1,1-Dichloroethylene)
1.0 U	UG/L	Methylene Chloride
5.0 U	UG/L	Acetone
1.0 U	UG/L	Carbon Disulfide
2.0 U	UG/L	Methyl Acetate
1.0 U	UG/L	1,1-Dichloroethane
0.36 J	UG/L	cis-1,2-Dichloroethene
1.0 U	UG/L	2,2-Dichloropropane
5.0 UJ	UG/L	Methyl Ethyl Ketone
1.0 U	UG/L	Bromochloromethane
1.0 U	UG/L	trans-1,2-Dichloroethene
1.0	UG/L	Chloroform
1.0 U	UG/L	1,2-Dichloroethane
1.0 U	UG/L	1,1,1-Trichloroethane
1.0 U	UG/L	1,1-Dichloropropene
1.0 U	UG/L	Carbon Tetrachloride
1.0 U	UG/L	Bromodichloromethane
5.0 U	UG/L	Methyl Isobutyl Ketone
1.0 U	UG/L	1,2-Dichloropropane
1.0 U	UG/L	Methylcyclohexane
1.0 U	UG/L	Dibromomethane
1.0 U	UG/L	trans-1,3-Dichloropropene
13	UG/L	Trichloroethene (Trichloroethylene)
0.067 J	UG/L	Benzene
1.0 U	UG/L	Dibromochloromethane
1.0 U	UG/L	1,1,2-Trichloroethane

RESULTS	UNITS	ANALYTE
1.0 U	UG/L	cis-1,3-Dichloropropene
1.0 U	UG/L	Bromoform
1.0 U	UG/L	Bromobenzene
1.0 U	UG/L	1,1,2,2-Tetrachloroethane
1.0 U	UG/L	Tetrachloroethene (Tetrachloroethylene)
1.0 U	UG/L	1,3-Dichloropropane
5.0 U	UG/L	Methyl Butyl Ketone
1.0 U	UG/L	Toluene
0.17 J	UG/L	Chlorobenzene
1.0 U	UG/L	1,1,1,2-Tetrachloroethane
1.0 U	UG/L	Ethyl Benzene
2.0 U	UG/L	(m- and/or p-)Xylene
1.0 U	UG/L	o-Xylene
1.0 U	UG/L	Styrene
1.0 U	UG/L	1,2,3-Trichloropropane
1.0 U	UG/L	o-Chlorotoluene
1.0 U	UG/L	p-Chlorotoluene
1.0 U	UG/L	1,3-Dichlorobenzene
1.0 U	UG/L	1,4-Dichlorobenzene
0.97 J	UG/L	1,2-Dichlorobenzene
1.0 U	UG/L	1,2-Dibromoethane (EDB)
1.0 U	UG/L	Isopropylbenzene
1.0 U	UG/L	n-Propylbenzene
1.0 U	UG/L	1,3,5-Trimethylbenzene
1.0 U	UG/L	tert-Butylbenzene
1.0 U	UG/L	1,2,4-Trimethylbenzene
1.0 U	UG/L	sec-Butylbenzene
1.0 U	UG/L	p-Isopropyltoluene
1.0 U	UG/L	n-Butylbenzene
2.0 U	UG/L	1,2-Dibromo-3-Chloropropane (DBCP)
2.0 U	UG/L	1,2,4-Trichlorobenzene
1.0 U	UG/L	Hexachloro-1,3-Butadiene
1.0 U	UG/L	1,2,3-Trichlorobenzene

MEK RSD >15% on ICAL
All other J-qualified compound values are >MDL but <MQL

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

VOLATILES SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/28/2005 11:30**

Sample **3777** FY **2005** Project: **05-0474**

Volatiles Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-MW-2 / VC-MW-2
Media: GROUNDWATER

Produced by: Hale, Sallie
Requestor:
Project Leader: AMASTERS
Beginning: 03/30/2005 13:50
Ending:

RESULTS	UNITS	ANALYTE
1.0 U	UG/L	Dichlorodifluoromethane
1.0 U	UG/L	Chloromethane
1.0 U	UG/L	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)
1.0 U	UG/L	Methyl T-Butyl Ether (MTBE)
1.0 U	UG/L	Bromomethane
1.0 U	UG/L	Cyclohexane
1.0 U	UG/L	Vinyl Chloride
1.0 U	UG/L	Chloroethane
1.0 U	UG/L	Trichlorofluoromethane (Freon 11)
1.0 U	UG/L	1,1-Dichloroethene (1,1-Dichloroethylene)
1.0 U	UG/L	Methylene Chloride
5.0 U	UG/L	Acetone
1.0 U	UG/L	Carbon Disulfide
2.0 U	UG/L	Methyl Acetate
1.0 U	UG/L	1,1-Dichloroethane
4.1	UG/L	cis-1,2-Dichloroethene
1.0 U	UG/L	2,2-Dichloropropane
5.0 UJ	UG/L	Methyl Ethyl Ketone
1.0 U	UG/L	Bromochloromethane
0.74 J	UG/L	trans-1,2-Dichloroethene
1.0 U	UG/L	Chloroform
1.0 U	UG/L	1,2-Dichloroethane
1.0 U	UG/L	1,1,1-Trichloroethane
1.0 U	UG/L	1,1-Dichloropropene
1.0 U	UG/L	Carbon Tetrachloride
1.0 U	UG/L	Bromodichloromethane
5.0 U	UG/L	Methyl Isobutyl Ketone
1.0 U	UG/L	1,2-Dichloropropane
1.0 U	UG/L	Methylcyclohexane
1.0 U	UG/L	Dibromomethane
1.0 U	UG/L	trans-1,3-Dichloropropene
0.88 J	UG/L	Trichloroethene (Trichloroethylene)
1.0 U	UG/L	Benzene
1.0 U	UG/L	Dibromochloromethane
1.0 U	UG/L	1,1,2-Trichloroethane

RESULTS	UNITS	ANALYTE
1.0 U	UG/L	cis-1,3-Dichloropropene
1.0 U	UG/L	Bromoform
1.0 U	UG/L	Bromobenzene
1.0 U	UG/L	1,1,2,2-Tetrachloroethane
1.0 U	UG/L	Tetrachloroethene (Tetrachloroethylene)
1.0 U	UG/L	1,3-Dichloropropane
5.0 U	UG/L	Methyl Butyl Ketone
1.0 U	UG/L	Toluene
1.0 U	UG/L	Chlorobenzene
1.0 U	UG/L	1,1,1,2-Tetrachloroethane
1.0 U	UG/L	Ethyl Benzene
2.0 U	UG/L	(m- and/or p-)Xylene
1.0 U	UG/L	o-Xylene
1.0 U	UG/L	Styrene
1.0 U	UG/L	1,2,3-Trichloropropane
1.0 U	UG/L	o-Chlorotoluene
1.0 U	UG/L	p-Chlorotoluene
1.0 U	UG/L	1,3-Dichlorobenzene
1.0 U	UG/L	1,4-Dichlorobenzene
1.0 U	UG/L	1,2-Dichlorobenzene
1.0 U	UG/L	1,2-Dibromoethane (EDB)
1.0 U	UG/L	Isopropylbenzene
1.0 U	UG/L	n-Propylbenzene
1.0 U	UG/L	1,3,5-Trimethylbenzene
1.0 U	UG/L	tert-Butylbenzene
1.0 U	UG/L	1,2,4-Trimethylbenzene
1.0 U	UG/L	sec-Butylbenzene
1.0 U	UG/L	p-Isopropyltoluene
1.0 U	UG/L	n-Butylbenzene
2.0 U	UG/L	1,2-Dibromo-3-Chloropropane (DBCP)
2.0 U	UG/L	1,2,4-Trichlorobenzene
1.0 U	UG/L	Hexachloro-1,3-Butadiene
1.0 U	UG/L	1,2,3-Trichlorobenzene

MEK RSD >15% on ICAL
All other J-qualified compound values are >MDL but <MQL

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

VOLATILES SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/28/2005 11:30**

Sample **3778** FY **2005** Project: **05-0474**

Volatiles Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-MW-6 / VC-MW-6
Media: GROUNDWATER

Produced by: Hale, Sallie
Requestor:
Project Leader: AMASTERS
Beginning: 03/30/2005 15:50
Ending:

RESULTS	UNITS	ANALYTE
1.0 U	UG/L	Dichlorodifluoromethane
1.0 U	UG/L	Chloromethane
1.0 U	UG/L	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)
1.0 U	UG/L	Methyl T-Butyl Ether (MTBE)
1.0 U	UG/L	Bromomethane
1.0 U	UG/L	Cyclohexane
0.52 J	UG/L	Vinyl Chloride
1.0 U	UG/L	Chloroethane
1.0 U	UG/L	Trichlorofluoromethane (Freon 11)
1.0 U	UG/L	1,1-Dichloroethene (1,1-Dichloroethylene)
1.0 U	UG/L	Methylene Chloride
5.0 U	UG/L	Acetone
1.0 U	UG/L	Carbon Disulfide
2.0 U	UG/L	Methyl Acetate
1.0 U	UG/L	1,1-Dichloroethane
1.0 U	UG/L	cis-1,2-Dichloroethene
1.0 U	UG/L	2,2-Dichloropropane
5.0 UJ	UG/L	Methyl Ethyl Ketone
1.0 U	UG/L	Bromochloromethane
1.0 U	UG/L	trans-1,2-Dichloroethene
1.5	UG/L	Chloroform
1.0 U	UG/L	1,2-Dichloroethane
1.0 U	UG/L	1,1,1-Trichloroethane
1.0 U	UG/L	1,1-Dichloropropene
1.0 U	UG/L	Carbon Tetrachloride
1.0 U	UG/L	Bromodichloromethane
5.0 U	UG/L	Methyl Isobutyl Ketone
1.0 U	UG/L	1,2-Dichloropropane
1.0 U	UG/L	Methylcyclohexane
1.0 U	UG/L	Dibromomethane
1.0 U	UG/L	trans-1,3-Dichloropropene
1.0 U	UG/L	Trichloroethene (Trichloroethylene)
1.0 U	UG/L	Benzene
1.0 U	UG/L	Dibromochloromethane
1.0 U	UG/L	1,1,2-Trichloroethane

RESULTS	UNITS	ANALYTE
1.0 U	UG/L	cis-1,3-Dichloropropene
1.0 U	UG/L	Bromoform
1.0 U	UG/L	Bromobenzene
1.0 U	UG/L	1,1,2,2-Tetrachloroethane
1.0 U	UG/L	Tetrachloroethene (Tetrachloroethylene)
1.0 U	UG/L	1,3-Dichloropropane
5.0 U	UG/L	Methyl Butyl Ketone
1.0 U	UG/L	Toluene
1.0 U	UG/L	Chlorobenzene
1.0 U	UG/L	1,1,1,2-Tetrachloroethane
1.0 U	UG/L	Ethyl Benzene
2.0 U	UG/L	(m- and/or p-)Xylene
1.0 U	UG/L	o-Xylene
1.0 U	UG/L	Styrene
1.0 U	UG/L	1,2,3-Trichloropropane
1.0 U	UG/L	o-Chlorotoluene
1.0 U	UG/L	p-Chlorotoluene
1.0 U	UG/L	1,3-Dichlorobenzene
1.0 U	UG/L	1,4-Dichlorobenzene
1.0 U	UG/L	1,2-Dichlorobenzene
1.0 U	UG/L	1,2-Dibromoethane (EDB)
1.0 U	UG/L	Isopropylbenzene
1.0 U	UG/L	n-Propylbenzene
1.0 U	UG/L	1,3,5-Trimethylbenzene
1.0 U	UG/L	tert-Butylbenzene
1.0 U	UG/L	1,2,4-Trimethylbenzene
1.0 U	UG/L	sec-Butylbenzene
1.0 U	UG/L	p-Isopropyltoluene
1.0 U	UG/L	n-Butylbenzene
2.0 U	UG/L	1,2-Dibromo-3-Chloropropane (DBCP)
2.0 U	UG/L	1,2,4-Trichlorobenzene
1.0 U	UG/L	Hexachloro-1,3-Butadiene
1.0 U	UG/L	1,2,3-Trichlorobenzene

MEK RSD >15% on ICAL
Vinyl Chloride J-qualified because value is >MDL but <MQL

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

VOLATILES SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/28/2005 11:30**

Sample **3779** FY **2005** Project: **05-0474**

Volatiles Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-MW-7 / VC-MW-7
Media: GROUNDWATER

Produced by: Hale, Sallie
Requestor:
Project Leader: AMASTERS
Beginning: 03/31/2005 13:55
Ending:

RESULTS	UNITS	ANALYTE
1.0 U	UG/L	Dichlorodifluoromethane
1.0 U	UG/L	Chloromethane
1.0 U	UG/L	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)
1.0 U	UG/L	Methyl T-Butyl Ether (MTBE)
1.0 U	UG/L	Bromomethane
1.0 U	UG/L	Cyclohexane
1.0 U	UG/L	Vinyl Chloride
1.0 U	UG/L	Chloroethane
1.0 U	UG/L	Trichlorofluoromethane (Freon 11)
1.0 U	UG/L	1,1-Dichloroethene (1,1-Dichloroethylene)
1.0 U	UG/L	Methylene Chloride
5.0 U	UG/L	Acetone
1.0 U	UG/L	Carbon Disulfide
2.0 U	UG/L	Methyl Acetate
1.0 U	UG/L	1,1-Dichloroethane
1.0 U	UG/L	cis-1,2-Dichloroethene
1.0 U	UG/L	2,2-Dichloropropane
5.0 UJ	UG/L	Methyl Ethyl Ketone
1.0 U	UG/L	Bromochloromethane
1.0 U	UG/L	trans-1,2-Dichloroethene
1.0 U	UG/L	Chloroform
1.0 U	UG/L	1,2-Dichloroethane
1.0 U	UG/L	1,1,1-Trichloroethane
1.0 U	UG/L	1,1-Dichloropropene
1.0 U	UG/L	Carbon Tetrachloride
1.0 U	UG/L	Bromodichloromethane
5.0 U	UG/L	Methyl Isobutyl Ketone
1.0 U	UG/L	1,2-Dichloropropane
1.0 U	UG/L	Methylcyclohexane
1.0 U	UG/L	Dibromomethane
1.0 U	UG/L	trans-1,3-Dichloropropene
1.0 U	UG/L	Trichloroethene (Trichloroethylene)
1.0 U	UG/L	Benzene
1.0 U	UG/L	Dibromochloromethane
1.0 U	UG/L	1,1,2-Trichloroethane

RESULTS	UNITS	ANALYTE
1.0 U	UG/L	cis-1,3-Dichloropropene
1.0 U	UG/L	Bromoform
1.0 U	UG/L	Bromobenzene
1.0 U	UG/L	1,1,2,2-Tetrachloroethane
1.0 U	UG/L	Tetrachloroethene (Tetrachloroethylene)
1.0 U	UG/L	1,3-Dichloropropane
5.0 U	UG/L	Methyl Butyl Ketone
1.0 U	UG/L	Toluene
1.0 U	UG/L	Chlorobenzene
1.0 U	UG/L	1,1,1,2-Tetrachloroethane
1.0 U	UG/L	Ethyl Benzene
2.0 U	UG/L	(m- and/or p-)Xylene
1.0 U	UG/L	o-Xylene
1.0 U	UG/L	Styrene
1.0 U	UG/L	1,2,3-Trichloropropane
1.0 U	UG/L	o-Chlorotoluene
1.0 U	UG/L	p-Chlorotoluene
1.0 U	UG/L	1,3-Dichlorobenzene
1.0 U	UG/L	1,4-Dichlorobenzene
1.0 U	UG/L	1,2-Dichlorobenzene
1.0 U	UG/L	1,2-Dibromoethane (EDB)
1.0 U	UG/L	Isopropylbenzene
1.0 U	UG/L	n-Propylbenzene
1.0 U	UG/L	1,3,5-Trimethylbenzene
1.0 U	UG/L	tert-Butylbenzene
1.0 U	UG/L	1,2,4-Trimethylbenzene
1.0 U	UG/L	sec-Butylbenzene
1.0 U	UG/L	p-Isopropyltoluene
1.0 U	UG/L	n-Butylbenzene
2.0 U	UG/L	1,2-Dibromo-3-Chloropropane (DBCP)
2.0 U	UG/L	1,2,4-Trichlorobenzene
1.0 U	UG/L	Hexachloro-1,3-Butadiene
1.0 U	UG/L	1,2,3-Trichlorobenzene

MEK RSD >15% on ICAL

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

VOLATILES SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/28/2005 11:30**

Sample **3780** FY **2005** Project: **05-0474**

Volatiles Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-MW-8 / VC-MW-8
Media: GROUNDWATER

Produced by: Hale, Sallie
Requestor:
Project Leader: AMASTERS
Beginning: 03/30/2005 14:45
Ending:

RESULTS	UNITS	ANALYTE
1.0 U	UG/L	Dichlorodifluoromethane
1.0 U	UG/L	Chloromethane
1.0 U	UG/L	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)
1.0 U	UG/L	Methyl T-Butyl Ether (MTBE)
1.0 U	UG/L	Bromomethane
1.0 U	UG/L	Cyclohexane
1.0 U	UG/L	Vinyl Chloride
1.0 U	UG/L	Chloroethane
1.0 U	UG/L	Trichlorofluoromethane (Freon 11)
1.0 U	UG/L	1,1-Dichloroethene (1,1-Dichloroethylene)
1.0 U	UG/L	Methylene Chloride
5.0 U	UG/L	Acetone
1.0 U	UG/L	Carbon Disulfide
2.0 U	UG/L	Methyl Acetate
1.0 U	UG/L	1,1-Dichloroethane
1.0 U	UG/L	cis-1,2-Dichloroethene
1.0 U	UG/L	2,2-Dichloropropane
5.0 UJ	UG/L	Methyl Ethyl Ketone
1.0 U	UG/L	Bromochloromethane
1.0 U	UG/L	trans-1,2-Dichloroethene
1.0 U	UG/L	Chloroform
1.0 U	UG/L	1,2-Dichloroethane
1.0 U	UG/L	1,1,1-Trichloroethane
1.0 U	UG/L	1,1-Dichloropropene
1.0 U	UG/L	Carbon Tetrachloride
1.0 U	UG/L	Bromodichloromethane
5.0 U	UG/L	Methyl Isobutyl Ketone
1.0 U	UG/L	1,2-Dichloropropane
1.0 U	UG/L	Methylcyclohexane
1.0 U	UG/L	Dibromomethane
1.0 U	UG/L	trans-1,3-Dichloropropene
1.0 U	UG/L	Trichloroethene (Trichloroethylene)
1.0 U	UG/L	Benzene
1.0 U	UG/L	Dibromochloromethane
1.0 U	UG/L	1,1,2-Trichloroethane

RESULTS	UNITS	ANALYTE
1.0 U	UG/L	cis-1,3-Dichloropropene
1.0 U	UG/L	Bromoform
1.0 U	UG/L	Bromobenzene
1.0 U	UG/L	1,1,2,2-Tetrachloroethane
1.0 U	UG/L	Tetrachloroethene (Tetrachloroethylene)
1.0 U	UG/L	1,3-Dichloropropane
5.0 U	UG/L	Methyl Butyl Ketone
1.0 U	UG/L	Toluene
1.0 U	UG/L	Chlorobenzene
1.0 U	UG/L	1,1,1,2-Tetrachloroethane
1.0 U	UG/L	Ethyl Benzene
2.0 U	UG/L	(m- and/or p-)Xylene
1.0 U	UG/L	o-Xylene
1.0 U	UG/L	Styrene
1.0 U	UG/L	1,2,3-Trichloropropane
1.0 U	UG/L	o-Chlorotoluene
1.0 U	UG/L	p-Chlorotoluene
1.0 U	UG/L	1,3-Dichlorobenzene
1.0 U	UG/L	1,4-Dichlorobenzene
1.0 U	UG/L	1,2-Dichlorobenzene
1.0 U	UG/L	1,2-Dibromoethane (EDB)
1.0 U	UG/L	Isopropylbenzene
1.0 U	UG/L	n-Propylbenzene
1.0 U	UG/L	1,3,5-Trimethylbenzene
1.0 U	UG/L	tert-Butylbenzene
1.0 U	UG/L	1,2,4-Trimethylbenzene
1.0 U	UG/L	sec-Butylbenzene
1.0 U	UG/L	p-Isopropyltoluene
1.0 U	UG/L	n-Butylbenzene
2.0 U	UG/L	1,2-Dibromo-3-Chloropropane (DBCP)
2.0 U	UG/L	1,2,4-Trichlorobenzene
1.0 U	UG/L	Hexachloro-1,3-Butadiene
1.0 U	UG/L	1,2,3-Trichlorobenzene

MEK RSD >15% on ICAL

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

VOLATILES SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/28/2005 11:30**

Sample **3781** FY **2005** Project: **05-0474**

Volatiles Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-MW-9 / VC-MW-9
Media: GROUNDWATER

Produced by: Hale, Sallie
Requestor:
Project Leader: AMASTERS
Beginning: 03/30/2005 13:07
Ending:

RESULTS	UNITS	ANALYTE
1.0 U	UG/L	Dichlorodifluoromethane
1.0 U	UG/L	Chloromethane
1.0 U	UG/L	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)
1.0 U	UG/L	Methyl T-Butyl Ether (MTBE)
1.0 U	UG/L	Bromomethane
1.0 U	UG/L	Cyclohexane
1.0 U	UG/L	Vinyl Chloride
1.0 U	UG/L	Chloroethane
1.0 U	UG/L	Trichlorofluoromethane (Freon 11)
1.0 U	UG/L	1,1-Dichloroethene (1,1-Dichloroethylene)
1.0 U	UG/L	Methylene Chloride
5.0 U	UG/L	Acetone
1.0 U	UG/L	Carbon Disulfide
2.0 U	UG/L	Methyl Acetate
1.0 U	UG/L	1,1-Dichloroethane
1.0 U	UG/L	cis-1,2-Dichloroethene
1.0 U	UG/L	2,2-Dichloropropane
5.0 UJ	UG/L	Methyl Ethyl Ketone
1.0 U	UG/L	Bromochloromethane
1.0 U	UG/L	trans-1,2-Dichloroethene
1.0 U	UG/L	Chloroform
1.0 U	UG/L	1,2-Dichloroethane
1.0 U	UG/L	1,1,1-Trichloroethane
1.0 U	UG/L	1,1-Dichloropropene
1.0 U	UG/L	Carbon Tetrachloride
1.0 U	UG/L	Bromodichloromethane
5.0 U	UG/L	Methyl Isobutyl Ketone
1.0 U	UG/L	1,2-Dichloropropane
1.0 U	UG/L	Methylcyclohexane
1.0 U	UG/L	Dibromomethane
1.0 U	UG/L	trans-1,3-Dichloropropene
1.0 U	UG/L	Trichloroethene (Trichloroethylene)
0.82 J	UG/L	Benzene
1.0 U	UG/L	Dibromochloromethane
1.0 U	UG/L	1,1,2-Trichloroethane

RESULTS	UNITS	ANALYTE
1.0 U	UG/L	cis-1,3-Dichloropropene
1.0 U	UG/L	Bromoform
1.0 U	UG/L	Bromobenzene
1.0 U	UG/L	1,1,2,2-Tetrachloroethane
1.0 U	UG/L	Tetrachloroethene (Tetrachloroethylene)
1.0 U	UG/L	1,3-Dichloropropane
5.0 U	UG/L	Methyl Butyl Ketone
1.0 U	UG/L	Toluene
1.0 U	UG/L	Chlorobenzene
1.0 U	UG/L	1,1,1,2-Tetrachloroethane
1.0 U	UG/L	Ethyl Benzene
0.072 J	UG/L	(m- and/or p-)Xylene
1.0 U	UG/L	o-Xylene
1.0 U	UG/L	Styrene
1.0 U	UG/L	1,2,3-Trichloropropane
1.0 U	UG/L	o-Chlorotoluene
1.0 U	UG/L	p-Chlorotoluene
1.0 U	UG/L	1,3-Dichlorobenzene
1.0 U	UG/L	1,4-Dichlorobenzene
1.0 U	UG/L	1,2-Dichlorobenzene
1.0 U	UG/L	1,2-Dibromoethane (EDB)
1.0 U	UG/L	Isopropylbenzene
1.0 U	UG/L	n-Propylbenzene
1.0 U	UG/L	1,3,5-Trimethylbenzene
1.0 U	UG/L	tert-Butylbenzene
0.13 J	UG/L	1,2,4-Trimethylbenzene
1.0 U	UG/L	sec-Butylbenzene
1.0 U	UG/L	p-Isopropyltoluene
1.0 U	UG/L	n-Butylbenzene
2.0 U	UG/L	1,2-Dibromo-3-Chloropropane (DBCP)
2.0 U	UG/L	1,2,4-Trichlorobenzene
1.0 U	UG/L	Hexachloro-1,3-Butadiene
1.0 U	UG/L	1,2,3-Trichlorobenzene

MEK RSD >15% on ICAL
All other J-qualified compound values are >MDL but <MQL

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

VOLATILES SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/28/2005 11:30**

Sample **3782** FY **2005** Project: **05-0474**

Volatiles Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-MW-10C / VC-MW-10C
Media: GROUNDWATER

Produced by: Hale, Sallie
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 17:15
Ending:

RESULTS	UNITS	ANALYTE
10 U	UG/L	Dichlorodifluoromethane
10 U	UG/L	Chloromethane
10 U	UG/L	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)
10 U	UG/L	Methyl T-Butyl Ether (MTBE)
10 U	UG/L	Bromomethane
10 U	UG/L	Cyclohexane
10 U	UG/L	Vinyl Chloride
10 U	UG/L	Chloroethane
10 U	UG/L	Trichlorofluoromethane (Freon 11)
10 U	UG/L	1,1-Dichloroethene (1,1-Dichloroethylene)
10 U	UG/L	Methylene Chloride
50 U	UG/L	Acetone
10 U	UG/L	Carbon Disulfide
20 U	UG/L	Methyl Acetate
10 U	UG/L	1,1-Dichloroethane
10 U	UG/L	cis-1,2-Dichloroethene
10 U	UG/L	2,2-Dichloropropane
50 UJ	UG/L	Methyl Ethyl Ketone
10 U	UG/L	Bromochloromethane
10 U	UG/L	trans-1,2-Dichloroethene
360	UG/L	Chloroform
10 U	UG/L	1,2-Dichloroethane
10 U	UG/L	1,1,1-Trichloroethane
10 U	UG/L	1,1-Dichloropropene
320	UG/L	Carbon Tetrachloride
10 U	UG/L	Bromodichloromethane
50 U	UG/L	Methyl Isobutyl Ketone
10 U	UG/L	1,2-Dichloropropane
10 U	UG/L	Methylcyclohexane
10 U	UG/L	Dibromomethane
10 U	UG/L	trans-1,3-Dichloropropene
10 U	UG/L	Trichloroethene (Trichloroethylene)
10 U	UG/L	Benzene
10 U	UG/L	Dibromochloromethane
10 U	UG/L	1,1,2-Trichloroethane

RESULTS	UNITS	ANALYTE
10 U	UG/L	cis-1,3-Dichloropropene
10 U	UG/L	Bromoform
10 U	UG/L	Bromobenzene
10 U	UG/L	1,1,2,2-Tetrachloroethane
1.9 J	UG/L	Tetrachloroethene (Tetrachloroethylene)
10 U	UG/L	1,3-Dichloropropane
50 U	UG/L	Methyl Butyl Ketone
10 U	UG/L	Toluene
10 U	UG/L	Chlorobenzene
10 U	UG/L	1,1,1,2-Tetrachloroethane
10 U	UG/L	Ethyl Benzene
20 U	UG/L	(m- and/or p-)Xylene
10 U	UG/L	o-Xylene
10 U	UG/L	Styrene
10 U	UG/L	1,2,3-Trichloropropane
10 U	UG/L	o-Chlorotoluene
10 U	UG/L	p-Chlorotoluene
10 U	UG/L	1,3-Dichlorobenzene
10 U	UG/L	1,4-Dichlorobenzene
10 U	UG/L	1,2-Dichlorobenzene
10 U	UG/L	1,2-Dibromoethane (EDB)
10 U	UG/L	Isopropylbenzene
10 U	UG/L	n-Propylbenzene
10 U	UG/L	1,3,5-Trimethylbenzene
10 U	UG/L	tert-Butylbenzene
10 U	UG/L	1,2,4-Trimethylbenzene
10 U	UG/L	sec-Butylbenzene
10 U	UG/L	p-Isopropyltoluene
10 U	UG/L	n-Butylbenzene
20 U	UG/L	1,2-Dibromo-3-Chloropropane (DBCP)
20 U	UG/L	1,2,4-Trichlorobenzene
10 U	UG/L	Hexachloro-1,3-Butadiene
10 U	UG/L	1,2,3-Trichlorobenzene

MEK RSD >15% on ICAL
Tetrachloroethene J-qualified because value is >MDL but <MQL

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

VOLATILES SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/28/2005 11:30**

Sample **3783** FY **2005** Project: **05-0474**

Volatiles Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-MW-12C / VC-MW-12C
Media: GROUNDWATER

Produced by: Hale, Sallie
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 17:30
Ending:

RESULTS	UNITS	ANALYTE
1000 U	UG/L	Dichlorodifluoromethane
1000 U	UG/L	Chloromethane
1000 U	UG/L	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)
1000 U	UG/L	Methyl T-Butyl Ether (MTBE)
1000 U	UG/L	Bromomethane
1000 U	UG/L	Cyclohexane
1000 U	UG/L	Vinyl Chloride
1000 U	UG/L	Chloroethane
1000 U	UG/L	Trichlorofluoromethane (Freon 11)
1000 U	UG/L	1,1-Dichloroethene (1,1-Dichloroethylene)
1000 U	UG/L	Methylene Chloride
5000 U	UG/L	Acetone
1000 U	UG/L	Carbon Disulfide
2000 U	UG/L	Methyl Acetate
1000 U	UG/L	1,1-Dichloroethane
1000 U	UG/L	cis-1,2-Dichloroethene
1000 U	UG/L	2,2-Dichloropropane
5000 UJ	UG/L	Methyl Ethyl Ketone
1000 U	UG/L	Bromochloromethane
1000 U	UG/L	trans-1,2-Dichloroethene
6700	UG/L	Chloroform
1000 U	UG/L	1,2-Dichloroethane
1000 U	UG/L	1,1,1-Trichloroethane
1000 U	UG/L	1,1-Dichloropropene
30000	UG/L	Carbon Tetrachloride
1000 U	UG/L	Bromodichloromethane
5000 U	UG/L	Methyl Isobutyl Ketone
1000 U	UG/L	1,2-Dichloropropane
1000 U	UG/L	Methylcyclohexane
1000 U	UG/L	Dibromomethane
1000 U	UG/L	trans-1,3-Dichloropropene
160 J	UG/L	Trichloroethene (Trichloroethylene)
1000 U	UG/L	Benzene
1000 U	UG/L	Dibromochloromethane
1000 U	UG/L	1,1,2-Trichloroethane

RESULTS	UNITS	ANALYTE
1000 U	UG/L	cis-1,3-Dichloropropene
1000 U	UG/L	Bromoform
1000 U	UG/L	Bromobenzene
1000 U	UG/L	1,1,2,2-Tetrachloroethane
1000 U	UG/L	Tetrachloroethene (Tetrachloroethylene)
1000 U	UG/L	1,3-Dichloropropane
5000 U	UG/L	Methyl Butyl Ketone
1000 U	UG/L	Toluene
1000 U	UG/L	Chlorobenzene
1000 U	UG/L	1,1,1,2-Tetrachloroethane
1000 U	UG/L	Ethyl Benzene
2000 U	UG/L	(m- and/or p-)Xylene
1000 U	UG/L	o-Xylene
1000 U	UG/L	Styrene
1000 U	UG/L	1,2,3-Trichloropropane
1000 U	UG/L	o-Chlorotoluene
1000 U	UG/L	p-Chlorotoluene
1000 U	UG/L	1,3-Dichlorobenzene
1000 U	UG/L	1,4-Dichlorobenzene
1000 U	UG/L	1,2-Dichlorobenzene
1000 U	UG/L	1,2-Dibromoethane (EDB)
1000 U	UG/L	Isopropylbenzene
1000 U	UG/L	n-Propylbenzene
1000 U	UG/L	1,3,5-Trimethylbenzene
1000 U	UG/L	tert-Butylbenzene
1000 U	UG/L	1,2,4-Trimethylbenzene
1000 U	UG/L	sec-Butylbenzene
1000 U	UG/L	p-Isopropyltoluene
1000 U	UG/L	n-Butylbenzene
2000 U	UG/L	1,2-Dibromo-3-Chloropropane (DBCP)
2000 U	UG/L	1,2,4-Trichlorobenzene
1000 U	UG/L	Hexachloro-1,3-Butadiene
1000 U	UG/L	1,2,3-Trichlorobenzene

MEK RSD >15% on ICAL
Trichloroethene J-qualified because value is >MDL but <MQL

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

VOLATILES SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/28/2005 11:30**

Sample **3784** FY **2005** Project: **05-0474**

Volatiles Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-MW-17A / VC-MW-17A
Media: GROUNDWATER

Produced by: Hale, Sallie
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 18:50
Ending:

RESULTS	UNITS	ANALYTE
1.0 U	UG/L	Dichlorodifluoromethane
1.0 U	UG/L	Chloromethane
1.0 U	UG/L	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)
1.0 U	UG/L	Methyl T-Butyl Ether (MTBE)
1.0 U	UG/L	Bromomethane
1.0 U	UG/L	Cyclohexane
1.0 U	UG/L	Vinyl Chloride
1.0 U	UG/L	Chloroethane
1.0 U	UG/L	Trichlorofluoromethane (Freon 11)
1.0 U	UG/L	1,1-Dichloroethene (1,1-Dichloroethylene)
1.0 U	UG/L	Methylene Chloride
5.0 U	UG/L	Acetone
1.0 U	UG/L	Carbon Disulfide
2.0 U	UG/L	Methyl Acetate
1.0 U	UG/L	1,1-Dichloroethane
1.0 U	UG/L	cis-1,2-Dichloroethene
1.0 U	UG/L	2,2-Dichloropropane
5.0 UJ	UG/L	Methyl Ethyl Ketone
1.0 U	UG/L	Bromochloromethane
1.0 U	UG/L	trans-1,2-Dichloroethene
1.0 U	UG/L	Chloroform
1.0 U	UG/L	1,2-Dichloroethane
1.0 U	UG/L	1,1,1-Trichloroethane
1.0 U	UG/L	1,1-Dichloropropene
1.0 U	UG/L	Carbon Tetrachloride
1.0 U	UG/L	Bromodichloromethane
5.0 U	UG/L	Methyl Isobutyl Ketone
1.0 U	UG/L	1,2-Dichloropropane
1.0 U	UG/L	Methylcyclohexane
1.0 U	UG/L	Dibromomethane
1.0 U	UG/L	trans-1,3-Dichloropropene
0.15 J	UG/L	Trichloroethene (Trichloroethylene)
1.0 U	UG/L	Benzene
1.0 U	UG/L	Dibromochloromethane
1.0 U	UG/L	1,1,2-Trichloroethane

RESULTS	UNITS	ANALYTE
1.0 U	UG/L	cis-1,3-Dichloropropene
1.0 U	UG/L	Bromoform
1.0 U	UG/L	Bromobenzene
1.0 U	UG/L	1,1,2,2-Tetrachloroethane
1.0 U	UG/L	Tetrachloroethene (Tetrachloroethylene)
1.0 U	UG/L	1,3-Dichloropropane
5.0 U	UG/L	Methyl Butyl Ketone
1.0 U	UG/L	Toluene
1.0 U	UG/L	Chlorobenzene
1.0 U	UG/L	1,1,1,2-Tetrachloroethane
1.0 U	UG/L	Ethyl Benzene
2.0 U	UG/L	(m- and/or p-)Xylene
1.0 U	UG/L	o-Xylene
1.0 U	UG/L	Styrene
1.0 U	UG/L	1,2,3-Trichloropropane
1.0 U	UG/L	o-Chlorotoluene
1.0 U	UG/L	p-Chlorotoluene
1.0 U	UG/L	1,3-Dichlorobenzene
1.0 U	UG/L	1,4-Dichlorobenzene
0.072 J	UG/L	1,2-Dichlorobenzene
1.0 U	UG/L	1,2-Dibromoethane (EDB)
1.0 U	UG/L	Isopropylbenzene
1.0 U	UG/L	n-Propylbenzene
1.0 U	UG/L	1,3,5-Trimethylbenzene
1.0 U	UG/L	tert-Butylbenzene
1.0 U	UG/L	1,2,4-Trimethylbenzene
1.0 U	UG/L	sec-Butylbenzene
1.0 U	UG/L	p-Isopropyltoluene
1.0 U	UG/L	n-Butylbenzene
2.0 U	UG/L	1,2-Dibromo-3-Chloropropane (DBCP)
2.0 U	UG/L	1,2,4-Trichlorobenzene
1.0 U	UG/L	Hexachloro-1,3-Butadiene
1.0 U	UG/L	1,2,3-Trichlorobenzene

MEK RSD >15% on ICAL
All other J-qualified compound values are >MDL but <MQL

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

VOLATILES SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/28/2005 11:30**

Sample **3785** FY **2005** Project: **05-0474**

Volatiles Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-MW-18A / VC-MW-18A
Media: GROUNDWATER

Produced by: Hale, Sallie
Requestor:
Project Leader: AMASTERS
Beginning: 03/30/2005 08:55
Ending:

RESULTS	UNITS	ANALYTE
1.0 U	UG/L	Dichlorodifluoromethane
1.0 U	UG/L	Chloromethane
1.0 U	UG/L	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)
1.0 U	UG/L	Methyl T-Butyl Ether (MTBE)
1.0 U	UG/L	Bromomethane
1.0 U	UG/L	Cyclohexane
1.0 U	UG/L	Vinyl Chloride
1.0 U	UG/L	Chloroethane
1.0 U	UG/L	Trichlorofluoromethane (Freon 11)
1.0 U	UG/L	1,1-Dichloroethene (1,1-Dichloroethylene)
1.0 U	UG/L	Methylene Chloride
5.0 U	UG/L	Acetone
1.0 U	UG/L	Carbon Disulfide
2.0 U	UG/L	Methyl Acetate
1.0 U	UG/L	1,1-Dichloroethane
1.0 U	UG/L	cis-1,2-Dichloroethene
1.0 U	UG/L	2,2-Dichloropropane
5.0 UJ	UG/L	Methyl Ethyl Ketone
1.0 U	UG/L	Bromochloromethane
1.0 U	UG/L	trans-1,2-Dichloroethene
1.0 U	UG/L	Chloroform
1.0 U	UG/L	1,2-Dichloroethane
1.0 U	UG/L	1,1,1-Trichloroethane
1.0 U	UG/L	1,1-Dichloropropene
1.0 U	UG/L	Carbon Tetrachloride
1.0 U	UG/L	Bromodichloromethane
5.0 U	UG/L	Methyl Isobutyl Ketone
1.0 U	UG/L	1,2-Dichloropropane
1.0 U	UG/L	Methylcyclohexane
1.0 U	UG/L	Dibromomethane
1.0 U	UG/L	trans-1,3-Dichloropropene
1.0 U	UG/L	Trichloroethene (Trichloroethylene)
1.0 U	UG/L	Benzene
1.0 U	UG/L	Dibromochloromethane
1.0 U	UG/L	1,1,2-Trichloroethane

RESULTS	UNITS	ANALYTE
1.0 U	UG/L	cis-1,3-Dichloropropene
1.0 U	UG/L	Bromoform
1.0 U	UG/L	Bromobenzene
1.0 U	UG/L	1,1,2,2-Tetrachloroethane
1.0 U	UG/L	Tetrachloroethene (Tetrachloroethylene)
1.0 U	UG/L	1,3-Dichloropropane
5.0 U	UG/L	Methyl Butyl Ketone
1.0 U	UG/L	Toluene
1.0 U	UG/L	Chlorobenzene
1.0 U	UG/L	1,1,1,2-Tetrachloroethane
0.055 J	UG/L	Ethyl Benzene
2.0 U	UG/L	(m- and/or p-)Xylene
1.0 U	UG/L	o-Xylene
1.0 U	UG/L	Styrene
1.0 U	UG/L	1,2,3-Trichloropropane
1.0 U	UG/L	o-Chlorotoluene
1.0 U	UG/L	p-Chlorotoluene
1.0 U	UG/L	1,3-Dichlorobenzene
1.0 U	UG/L	1,4-Dichlorobenzene
1.0 U	UG/L	1,2-Dichlorobenzene
1.0 U	UG/L	1,2-Dibromoethane (EDB)
1.0 U	UG/L	Isopropylbenzene
1.0 U	UG/L	n-Propylbenzene
1.0 U	UG/L	1,3,5-Trimethylbenzene
1.0 U	UG/L	tert-Butylbenzene
1.0 U	UG/L	1,2,4-Trimethylbenzene
1.0 U	UG/L	sec-Butylbenzene
1.0 U	UG/L	p-Isopropyltoluene
1.0 U	UG/L	n-Butylbenzene
2.0 U	UG/L	1,2-Dibromo-3-Chloropropane (DBCP)
2.0 U	UG/L	1,2,4-Trichlorobenzene
1.0 U	UG/L	Hexachloro-1,3-Butadiene
1.0 U	UG/L	1,2,3-Trichlorobenzene

MEK RSD >15% on ICAL
Ethylbenzene J-qualified because value is >MDL but <MQL

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

VOLATILES SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/28/2005 11:30**

Sample **3786** FY **2005** Project: **05-0474**

Volatiles Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-MW-4 / VC-MW-4
Media: GROUNDWATER

Produced by: Hale, Sallie
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2000 14:45
Ending:

RESULTS	UNITS	ANALYTE
1.0 U	UG/L	Dichlorodifluoromethane
1.0 U	UG/L	Chloromethane
1.0 U	UG/L	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)
1.0 U	UG/L	Methyl T-Butyl Ether (MTBE)
1.0 U	UG/L	Bromomethane
1.0 U	UG/L	Cyclohexane
1.0 U	UG/L	Vinyl Chloride
1.0 U	UG/L	Chloroethane
1.0 U	UG/L	Trichlorofluoromethane (Freon 11)
1.0 U	UG/L	1,1-Dichloroethene (1,1-Dichloroethylene)
1.0 U	UG/L	Methylene Chloride
5.0 U	UG/L	Acetone
1.0 U	UG/L	Carbon Disulfide
2.0 U	UG/L	Methyl Acetate
1.0 U	UG/L	1,1-Dichloroethane
1.0 U	UG/L	cis-1,2-Dichloroethene
1.0 U	UG/L	2,2-Dichloropropane
5.0 UJ	UG/L	Methyl Ethyl Ketone
1.0 U	UG/L	Bromochloromethane
1.0 U	UG/L	trans-1,2-Dichloroethene
1.0 U	UG/L	Chloroform
1.0 U	UG/L	1,2-Dichloroethane
1.0 U	UG/L	1,1,1-Trichloroethane
1.0 U	UG/L	1,1-Dichloropropene
1.0 U	UG/L	Carbon Tetrachloride
1.0 U	UG/L	Bromodichloromethane
5.0 U	UG/L	Methyl Isobutyl Ketone
1.0 U	UG/L	1,2-Dichloropropane
1.0 U	UG/L	Methylcyclohexane
1.0 U	UG/L	Dibromomethane
1.0 U	UG/L	trans-1,3-Dichloropropene
1.0 U	UG/L	Trichloroethene (Trichloroethylene)
1.0 U	UG/L	Benzene
1.0 U	UG/L	Dibromochloromethane
1.0 U	UG/L	1,1,2-Trichloroethane

RESULTS	UNITS	ANALYTE
1.0 U	UG/L	cis-1,3-Dichloropropene
1.0 U	UG/L	Bromoform
1.0 U	UG/L	Bromobenzene
1.0 U	UG/L	1,1,2,2-Tetrachloroethane
1.0 U	UG/L	Tetrachloroethene (Tetrachloroethylene)
1.0 U	UG/L	1,3-Dichloropropane
5.0 U	UG/L	Methyl Butyl Ketone
1.0 U	UG/L	Toluene
1.0 U	UG/L	Chlorobenzene
1.0 U	UG/L	1,1,1,2-Tetrachloroethane
1.0 U	UG/L	Ethyl Benzene
2.0 U	UG/L	(m- and/or p-)Xylene
1.0 U	UG/L	o-Xylene
1.0 U	UG/L	Styrene
1.0 U	UG/L	1,2,3-Trichloropropane
1.0 U	UG/L	o-Chlorotoluene
1.0 U	UG/L	p-Chlorotoluene
1.0 U	UG/L	1,3-Dichlorobenzene
1.0 U	UG/L	1,4-Dichlorobenzene
1.0 U	UG/L	1,2-Dichlorobenzene
1.0 U	UG/L	1,2-Dibromoethane (EDB)
1.0 U	UG/L	Isopropylbenzene
1.0 U	UG/L	n-Propylbenzene
1.0 U	UG/L	1,3,5-Trimethylbenzene
1.0 U	UG/L	tert-Butylbenzene
1.0 U	UG/L	1,2,4-Trimethylbenzene
1.0 U	UG/L	sec-Butylbenzene
1.0 U	UG/L	p-Isopropyltoluene
1.0 U	UG/L	n-Butylbenzene
2.0 U	UG/L	1,2-Dibromo-3-Chloropropane (DBCP)
2.0 U	UG/L	1,2,4-Trichlorobenzene
1.0 U	UG/L	Hexachloro-1,3-Butadiene
1.0 U	UG/L	1,2,3-Trichlorobenzene

MEK RSD >15% on ICAL

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

VOLATILES SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/28/2005 11:30**

Sample **3787** FY **2005** Project: **05-0474**

Volatiles Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-MW-11 / VC-MW-11
Media: GROUNDWATER

Produced by: Hale, Sallie
Requestor:
Project Leader: AMASTERS
Beginning: 03/31/2005 16:45
Ending:

RESULTS	UNITS	ANALYTE
1.0 U	UG/L	Dichlorodifluoromethane
1.0 U	UG/L	Chloromethane
1.0 U	UG/L	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)
1.0 U	UG/L	Methyl T-Butyl Ether (MTBE)
1.0 U	UG/L	Bromomethane
1.0 U	UG/L	Cyclohexane
1.0 U	UG/L	Vinyl Chloride
1.0 U	UG/L	Chloroethane
1.0 U	UG/L	Trichlorofluoromethane (Freon 11)
1.0 U	UG/L	1,1-Dichloroethene (1,1-Dichloroethylene)
1.0 U	UG/L	Methylene Chloride
5.0 U	UG/L	Acetone
1.0 U	UG/L	Carbon Disulfide
2.0 U	UG/L	Methyl Acetate
1.0 U	UG/L	1,1-Dichloroethane
0.36 J	UG/L	cis-1,2-Dichloroethene
1.0 U	UG/L	2,2-Dichloropropane
5.0 UJ	UG/L	Methyl Ethyl Ketone
1.0 U	UG/L	Bromochloromethane
1.0 U	UG/L	trans-1,2-Dichloroethene
0.48 J	UG/L	Chloroform
1.0 U	UG/L	1,2-Dichloroethane
1.0 U	UG/L	1,1,1-Trichloroethane
1.0 U	UG/L	1,1-Dichloropropene
1.0 U	UG/L	Carbon Tetrachloride
1.0 U	UG/L	Bromodichloromethane
5.0 U	UG/L	Methyl Isobutyl Ketone
1.0 U	UG/L	1,2-Dichloropropane
1.0 U	UG/L	Methylcyclohexane
1.0 U	UG/L	Dibromomethane
1.0 U	UG/L	trans-1,3-Dichloropropene
12	UG/L	Trichloroethene (Trichloroethylene)
1.0 U	UG/L	Benzene
1.0 U	UG/L	Dibromochloromethane
1.0 U	UG/L	1,1,2-Trichloroethane

RESULTS	UNITS	ANALYTE
1.0 U	UG/L	cis-1,3-Dichloropropene
1.0 U	UG/L	Bromoform
1.0 U	UG/L	Bromobenzene
1.0 U	UG/L	1,1,2,2-Tetrachloroethane
1.0 U	UG/L	Tetrachloroethene (Tetrachloroethylene)
1.0 U	UG/L	1,3-Dichloropropane
5.0 U	UG/L	Methyl Butyl Ketone
1.0 U	UG/L	Toluene
1.0 U	UG/L	Chlorobenzene
1.0 U	UG/L	1,1,1,2-Tetrachloroethane
1.0 U	UG/L	Ethyl Benzene
2.0 U	UG/L	(m- and/or p-)Xylene
1.0 U	UG/L	o-Xylene
1.0 U	UG/L	Styrene
1.0 U	UG/L	1,2,3-Trichloropropane
1.0 U	UG/L	o-Chlorotoluene
1.0 U	UG/L	p-Chlorotoluene
1.0 U	UG/L	1,3-Dichlorobenzene
1.0 U	UG/L	1,4-Dichlorobenzene
1.0 U	UG/L	1,2-Dichlorobenzene
1.0 U	UG/L	1,2-Dibromoethane (EDB)
1.0 U	UG/L	Isopropylbenzene
1.0 U	UG/L	n-Propylbenzene
1.0 U	UG/L	1,3,5-Trimethylbenzene
1.0 U	UG/L	tert-Butylbenzene
1.0 U	UG/L	1,2,4-Trimethylbenzene
1.0 U	UG/L	sec-Butylbenzene
1.0 U	UG/L	p-Isopropyltoluene
1.0 U	UG/L	n-Butylbenzene
2.0 U	UG/L	1,2-Dibromo-3-Chloropropane (DBCP)
2.0 U	UG/L	1,2,4-Trichlorobenzene
1.0 U	UG/L	Hexachloro-1,3-Butadiene
1.0 U	UG/L	1,2,3-Trichlorobenzene

MEK RSD >15% on ICAL
All other J-qualified compound values are >MDL but <MQL

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

VOLATILES SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/28/2005 11:30**

Sample **3788** FY **2005** Project: **05-0474**

Volatiles Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-PZ-22B / VC-PZ-22B
Media: GROUNDWATER

Produced by: Hale, Sallie
Requestor:
Project Leader: AMASTERS
Beginning: 03/31/2005 16:10
Ending:

RESULTS	UNITS	ANALYTE
100 U	UG/L	Dichlorodifluoromethane
100 U	UG/L	Chloromethane
100 U	UG/L	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)
100 U	UG/L	Methyl T-Butyl Ether (MTBE)
100 U	UG/L	Bromomethane
100 U	UG/L	Cyclohexane
100 U	UG/L	Vinyl Chloride
100 U	UG/L	Chloroethane
100 U	UG/L	Trichlorofluoromethane (Freon 11)
100 U	UG/L	1,1-Dichloroethene (1,1-Dichloroethylene)
34 J	UG/L	Methylene Chloride
500 U	UG/L	Acetone
100 U	UG/L	Carbon Disulfide
200 U	UG/L	Methyl Acetate
17 J	UG/L	1,1-Dichloroethane
100 U	UG/L	cis-1,2-Dichloroethene
100 U	UG/L	2,2-Dichloropropane
500 UJ	UG/L	Methyl Ethyl Ketone
100 U	UG/L	Bromochloromethane
100 U	UG/L	trans-1,2-Dichloroethene
12000	UG/L	Chloroform
100 U	UG/L	1,2-Dichloroethane
100 U	UG/L	1,1,1-Trichloroethane
100 U	UG/L	1,1-Dichloropropene
100 U	UG/L	Carbon Tetrachloride
120	UG/L	Bromodichloromethane
500 U	UG/L	Methyl Isobutyl Ketone
100 U	UG/L	1,2-Dichloropropane
100 U	UG/L	Methylcyclohexane
100 U	UG/L	Dibromomethane
100 U	UG/L	trans-1,3-Dichloropropene
100 U	UG/L	Trichloroethene (Trichloroethylene)
100 U	UG/L	Benzene
51 J	UG/L	Dibromochloromethane
100 U	UG/L	1,1,2-Trichloroethane

RESULTS	UNITS	ANALYTE
100 U	UG/L	cis-1,3-Dichloropropene
140	UG/L	Bromoform
100 U	UG/L	Bromobenzene
100 U	UG/L	1,1,2,2-Tetrachloroethane
100 U	UG/L	Tetrachloroethene (Tetrachloroethylene)
100 U	UG/L	1,3-Dichloropropane
500 U	UG/L	Methyl Butyl Ketone
100 U	UG/L	Toluene
100 U	UG/L	Chlorobenzene
100 U	UG/L	1,1,1,2-Tetrachloroethane
100 U	UG/L	Ethyl Benzene
200 U	UG/L	(m- and/or p-)Xylene
100 U	UG/L	o-Xylene
100 U	UG/L	Styrene
100 U	UG/L	1,2,3-Trichloropropane
100 U	UG/L	o-Chlorotoluene
100 U	UG/L	p-Chlorotoluene
100 U	UG/L	1,3-Dichlorobenzene
100 U	UG/L	1,4-Dichlorobenzene
100 U	UG/L	1,2-Dichlorobenzene
100 U	UG/L	1,2-Dibromoethane (EDB)
100 U	UG/L	Isopropylbenzene
100 U	UG/L	n-Propylbenzene
100 U	UG/L	1,3,5-Trimethylbenzene
100 U	UG/L	tert-Butylbenzene
100 U	UG/L	1,2,4-Trimethylbenzene
100 U	UG/L	sec-Butylbenzene
100 U	UG/L	p-Isopropyltoluene
100 U	UG/L	n-Butylbenzene
200 U	UG/L	1,2-Dibromo-3-Chloropropane (DBCP)
200 U	UG/L	1,2,4-Trichlorobenzene
100 U	UG/L	Hexachloro-1,3-Butadiene
100 U	UG/L	1,2,3-Trichlorobenzene

MEK RSD >15% on ICAL
All other J-qualified compound values are >MDL but <MQL

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

VOLATILES SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/28/2005 11:30**

Sample **3789** FY **2005** Project: **05-0474**

Volatiles Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-PZ-25B / VC-PZ-25B
Media: GROUNDWATER

Produced by: Hale, Sallie
Requestor:
Project Leader: AMASTERS
Beginning: 03/31/2005 15:45
Ending:

RESULTS	UNITS	ANALYTE
1.0 U	UG/L	Dichlorodifluoromethane
1.0 U	UG/L	Chloromethane
1.0 U	UG/L	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)
1.0 U	UG/L	Methyl T-Butyl Ether (MTBE)
1.0 U	UG/L	Bromomethane
1.0 U	UG/L	Cyclohexane
1.0 U	UG/L	Vinyl Chloride
1.0 U	UG/L	Chloroethane
1.0 U	UG/L	Trichlorofluoromethane (Freon 11)
1.0 U	UG/L	1,1-Dichloroethene (1,1-Dichloroethylene)
1.0 U	UG/L	Methylene Chloride
5.0 U	UG/L	Acetone
1.0 U	UG/L	Carbon Disulfide
2.0 U	UG/L	Methyl Acetate
1.0 U	UG/L	1,1-Dichloroethane
1.0 U	UG/L	cis-1,2-Dichloroethene
1.0 U	UG/L	2,2-Dichloropropane
5.0 UJ	UG/L	Methyl Ethyl Ketone
1.0 U	UG/L	Bromochloromethane
1.0 U	UG/L	trans-1,2-Dichloroethene
0.65 J	UG/L	Chloroform
1.0 U	UG/L	1,2-Dichloroethane
1.0 U	UG/L	1,1,1-Trichloroethane
1.0 U	UG/L	1,1-Dichloropropene
1.0 U	UG/L	Carbon Tetrachloride
1.0 U	UG/L	Bromodichloromethane
5.0 U	UG/L	Methyl Isobutyl Ketone
1.0 U	UG/L	1,2-Dichloropropane
1.0 U	UG/L	Methylcyclohexane
1.0 U	UG/L	Dibromomethane
1.0 U	UG/L	trans-1,3-Dichloropropene
1.0 U	UG/L	Trichloroethene (Trichloroethylene)
1.0 U	UG/L	Benzene
1.0 U	UG/L	Dibromochloromethane
1.0 U	UG/L	1,1,2-Trichloroethane

RESULTS	UNITS	ANALYTE
1.0 U	UG/L	cis-1,3-Dichloropropene
1.0 U	UG/L	Bromoform
1.0 U	UG/L	Bromobenzene
1.0 U	UG/L	1,1,2,2-Tetrachloroethane
1.0 U	UG/L	Tetrachloroethene (Tetrachloroethylene)
1.0 U	UG/L	1,3-Dichloropropane
5.0 U	UG/L	Methyl Butyl Ketone
1.0 U	UG/L	Toluene
1.0 U	UG/L	Chlorobenzene
1.0 U	UG/L	1,1,1,2-Tetrachloroethane
1.0 U	UG/L	Ethyl Benzene
2.0 U	UG/L	(m- and/or p-)Xylene
1.0 U	UG/L	o-Xylene
1.0 U	UG/L	Styrene
1.0 U	UG/L	1,2,3-Trichloropropane
1.0 U	UG/L	o-Chlorotoluene
1.0 U	UG/L	p-Chlorotoluene
1.0 U	UG/L	1,3-Dichlorobenzene
1.0 U	UG/L	1,4-Dichlorobenzene
1.0 U	UG/L	1,2-Dichlorobenzene
1.0 U	UG/L	1,2-Dibromoethane (EDB)
1.0 U	UG/L	Isopropylbenzene
1.0 U	UG/L	n-Propylbenzene
1.0 U	UG/L	1,3,5-Trimethylbenzene
1.0 U	UG/L	tert-Butylbenzene
1.0 U	UG/L	1,2,4-Trimethylbenzene
1.0 U	UG/L	sec-Butylbenzene
1.0 U	UG/L	p-Isopropyltoluene
1.0 U	UG/L	n-Butylbenzene
2.0 U	UG/L	1,2-Dibromo-3-Chloropropane (DBCP)
2.0 U	UG/L	1,2,4-Trichlorobenzene
1.0 U	UG/L	Hexachloro-1,3-Butadiene
1.0 U	UG/L	1,2,3-Trichlorobenzene

MEK RSD >15% on ICAL
Chloroform J-qualified because value is >MDL but <MQL

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

VOLATILES SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/28/2005 11:30**

Sample **3790** FY **2005** Project: **05-0474**

Volatiles Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-TB-03 / VC-TB-03
Media: TRIP BLANK - WATER

Produced by: Hale, Sallie
Requestor:
Project Leader: AMASTERS
Beginning: 03/31/2005 17:45
Ending:

RESULTS	UNITS	ANALYTE
1.0 U	UG/L	Dichlorodifluoromethane
1.0 U	UG/L	Chloromethane
1.0 U	UG/L	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)
1.0 U	UG/L	Methyl T-Butyl Ether (MTBE)
1.0 U	UG/L	Bromomethane
1.0 U	UG/L	Cyclohexane
1.0 U	UG/L	Vinyl Chloride
1.0 U	UG/L	Chloroethane
1.0 U	UG/L	Trichlorofluoromethane (Freon 11)
1.0 U	UG/L	1,1-Dichloroethene (1,1-Dichloroethylene)
1.0 U	UG/L	Methylene Chloride
5.0 U	UG/L	Acetone
1.0 U	UG/L	Carbon Disulfide
2.0 U	UG/L	Methyl Acetate
1.0 U	UG/L	1,1-Dichloroethane
1.0 U	UG/L	cis-1,2-Dichloroethene
1.0 U	UG/L	2,2-Dichloropropane
5.0 UJ	UG/L	Methyl Ethyl Ketone
1.0 U	UG/L	Bromochloromethane
1.0 U	UG/L	trans-1,2-Dichloroethene
0.52 J	UG/L	Chloroform
1.0 U	UG/L	1,2-Dichloroethane
1.0 U	UG/L	1,1,1-Trichloroethane
1.0 U	UG/L	1,1-Dichloropropene
1.0 U	UG/L	Carbon Tetrachloride
1.0 U	UG/L	Bromodichloromethane
5.0 U	UG/L	Methyl Isobutyl Ketone
1.0 U	UG/L	1,2-Dichloropropane
1.0 U	UG/L	Methylcyclohexane
1.0 U	UG/L	Dibromomethane
1.0 U	UG/L	trans-1,3-Dichloropropene
1.0 U	UG/L	Trichloroethene (Trichloroethylene)
1.0 U	UG/L	Benzene
1.0 U	UG/L	Dibromochloromethane
1.0 U	UG/L	1,1,2-Trichloroethane

RESULTS	UNITS	ANALYTE
1.0 U	UG/L	cis-1,3-Dichloropropene
1.0 U	UG/L	Bromoform
1.0 U	UG/L	Bromobenzene
1.0 U	UG/L	1,1,2,2-Tetrachloroethane
1.0 U	UG/L	Tetrachloroethene (Tetrachloroethylene)
1.0 U	UG/L	1,3-Dichloropropane
5.0 U	UG/L	Methyl Butyl Ketone
1.0 U	UG/L	Toluene
1.0 U	UG/L	Chlorobenzene
1.0 U	UG/L	1,1,1,2-Tetrachloroethane
1.0 U	UG/L	Ethyl Benzene
2.0 U	UG/L	(m- and/or p-)Xylene
1.0 U	UG/L	o-Xylene
1.0 U	UG/L	Styrene
1.0 U	UG/L	1,2,3-Trichloropropane
1.0 U	UG/L	o-Chlorotoluene
1.0 U	UG/L	p-Chlorotoluene
1.0 U	UG/L	1,3-Dichlorobenzene
0.19 J	UG/L	1,4-Dichlorobenzene
1.0 U	UG/L	1,2-Dichlorobenzene
1.0 U	UG/L	1,2-Dibromoethane (EDB)
1.0 U	UG/L	Isopropylbenzene
1.0 U	UG/L	n-Propylbenzene
1.0 U	UG/L	1,3,5-Trimethylbenzene
1.0 U	UG/L	tert-Butylbenzene
1.0 U	UG/L	1,2,4-Trimethylbenzene
1.0 U	UG/L	sec-Butylbenzene
1.0 U	UG/L	p-Isopropyltoluene
1.0 U	UG/L	n-Butylbenzene
2.0 U	UG/L	1,2-Dibromo-3-Chloropropane (DBCP)
2.0 U	UG/L	1,2,4-Trichlorobenzene
1.0 U	UG/L	Hexachloro-1,3-Butadiene
1.0 U	UG/L	1,2,3-Trichlorobenzene

MEK RSD >15% on ICAL
All other J-qualified compound values are >MDL but <MQL

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

VOLATILES SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/28/2005 11:30**

Sample **3799** FY **2005** Project: **05-0474**

Volatiles Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-PB-01 / VC-PB-01
Media: PRESERVATIVE BLANK

Produced by: Hale, Sallie
Requestor:
Project Leader: AMASTERS
Beginning: 04/02/2005 10:00
Ending:

RESULTS	UNITS	ANALYTE
1.0 U	UG/L	Dichlorodifluoromethane
1.0 U	UG/L	Chloromethane
1.0 U	UG/L	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)
1.0 U	UG/L	Methyl T-Butyl Ether (MTBE)
1.0 U	UG/L	Bromomethane
1.0 U	UG/L	Cyclohexane
1.0 U	UG/L	Vinyl Chloride
1.0 U	UG/L	Chloroethane
1.0 U	UG/L	Trichlorofluoromethane (Freon 11)
1.0 U	UG/L	1,1-Dichloroethene (1,1-Dichloroethylene)
1.0 U	UG/L	Methylene Chloride
5.0 U	UG/L	Acetone
1.0 U	UG/L	Carbon Disulfide
2.0 U	UG/L	Methyl Acetate
1.0 U	UG/L	1,1-Dichloroethane
1.0 U	UG/L	cis-1,2-Dichloroethene
1.0 U	UG/L	2,2-Dichloropropane
5.0 UJ	UG/L	Methyl Ethyl Ketone
1.0 U	UG/L	Bromochloromethane
1.0 U	UG/L	trans-1,2-Dichloroethene
19	UG/L	Chloroform
1.0 U	UG/L	1,2-Dichloroethane
1.0 U	UG/L	1,1,1-Trichloroethane
1.0 U	UG/L	1,1-Dichloropropene
1.0 U	UG/L	Carbon Tetrachloride
1.0 U	UG/L	Bromodichloromethane
5.0 U	UG/L	Methyl Isobutyl Ketone
1.0 U	UG/L	1,2-Dichloropropane
1.0 U	UG/L	Methylcyclohexane
1.0 U	UG/L	Dibromomethane
1.0 U	UG/L	trans-1,3-Dichloropropene
1.0 U	UG/L	Trichloroethene (Trichloroethylene)
1.0 U	UG/L	Benzene
1.0 U	UG/L	Dibromochloromethane
1.0 U	UG/L	1,1,2-Trichloroethane

RESULTS	UNITS	ANALYTE
1.0 U	UG/L	cis-1,3-Dichloropropene
1.0 U	UG/L	Bromoform
1.0 U	UG/L	Bromobenzene
1.0 U	UG/L	1,1,2,2-Tetrachloroethane
1.0 U	UG/L	Tetrachloroethene (Tetrachloroethylene)
1.0 U	UG/L	1,3-Dichloropropane
5.0 U	UG/L	Methyl Butyl Ketone
1.0 U	UG/L	Toluene
1.0 U	UG/L	Chlorobenzene
1.0 U	UG/L	1,1,1,2-Tetrachloroethane
1.0 U	UG/L	Ethyl Benzene
2.0 U	UG/L	(m- and/or p-)Xylene
1.0 U	UG/L	o-Xylene
1.0 U	UG/L	Styrene
1.0 U	UG/L	1,2,3-Trichloropropane
1.0 U	UG/L	o-Chlorotoluene
1.0 U	UG/L	p-Chlorotoluene
1.0 U	UG/L	1,3-Dichlorobenzene
1.0 U	UG/L	1,4-Dichlorobenzene
1.0 U	UG/L	1,2-Dichlorobenzene
1.0 U	UG/L	1,2-Dibromoethane (EDB)
1.0 U	UG/L	Isopropylbenzene
1.0 U	UG/L	n-Propylbenzene
1.0 U	UG/L	1,3,5-Trimethylbenzene
1.0 U	UG/L	tert-Butylbenzene
1.0 U	UG/L	1,2,4-Trimethylbenzene
1.0 U	UG/L	sec-Butylbenzene
1.0 U	UG/L	p-Isopropyltoluene
1.0 U	UG/L	n-Butylbenzene
2.0 U	UG/L	1,2-Dibromo-3-Chloropropane (DBCP)
2.0 U	UG/L	1,2,4-Trichlorobenzene
1.0 U	UG/L	Hexachloro-1,3-Butadiene
1.0 U	UG/L	1,2,3-Trichlorobenzene

MEK RSD >15% on ICAL

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

VOLATILES SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/28/2005 11:30**

Sample **3800** FY **2005** Project: **05-0474**

Volatiles Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-PZ-21A / VC-PZ-21A
Media: GROUNDWATER

Produced by: Hale, Sallie
Requestor:
Project Leader: AMASTERS
Beginning: 04/01/2005 14:50
Ending:

RESULTS	UNITS	ANALYTE
1.0 U	UG/L	Dichlorodifluoromethane
1.0 U	UG/L	Chloromethane
1.0 U	UG/L	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)
1.0 U	UG/L	Methyl T-Butyl Ether (MTBE)
1.0 U	UG/L	Bromomethane
1.0 U	UG/L	Cyclohexane
1.0 U	UG/L	Vinyl Chloride
1.0 U	UG/L	Chloroethane
1.0 U	UG/L	Trichlorofluoromethane (Freon 11)
1.0 U	UG/L	1,1-Dichloroethene (1,1-Dichloroethylene)
1.0 U	UG/L	Methylene Chloride
5.0 U	UG/L	Acetone
1.0 U	UG/L	Carbon Disulfide
2.0 U	UG/L	Methyl Acetate
1.0 U	UG/L	1,1-Dichloroethane
1.0 U	UG/L	cis-1,2-Dichloroethene
1.0 U	UG/L	2,2-Dichloropropane
5.0 UJ	UG/L	Methyl Ethyl Ketone
1.0 U	UG/L	Bromochloromethane
1.0 U	UG/L	trans-1,2-Dichloroethene
1.0 U	UG/L	Chloroform
1.0 U	UG/L	1,2-Dichloroethane
1.0 U	UG/L	1,1,1-Trichloroethane
1.0 U	UG/L	1,1-Dichloropropene
1.0 U	UG/L	Carbon Tetrachloride
1.0 U	UG/L	Bromodichloromethane
5.0 U	UG/L	Methyl Isobutyl Ketone
1.0 U	UG/L	1,2-Dichloropropane
1.0 U	UG/L	Methylcyclohexane
1.0 U	UG/L	Dibromomethane
1.0 U	UG/L	trans-1,3-Dichloropropene
1.0 U	UG/L	Trichloroethene (Trichloroethylene)
1.0 U	UG/L	Benzene
1.0 U	UG/L	Dibromochloromethane
1.0 U	UG/L	1,1,2-Trichloroethane

RESULTS	UNITS	ANALYTE
1.0 U	UG/L	cis-1,3-Dichloropropene
1.0 U	UG/L	Bromoform
1.0 U	UG/L	Bromobenzene
1.0 U	UG/L	1,1,2,2-Tetrachloroethane
1.0 U	UG/L	Tetrachloroethene (Tetrachloroethylene)
1.0 U	UG/L	1,3-Dichloropropane
5.0 U	UG/L	Methyl Butyl Ketone
1.0 U	UG/L	Toluene
1.0 U	UG/L	Chlorobenzene
1.0 U	UG/L	1,1,1,2-Tetrachloroethane
1.0 U	UG/L	Ethyl Benzene
2.0 U	UG/L	(m- and/or p-)Xylene
1.0 U	UG/L	o-Xylene
1.0 U	UG/L	Styrene
1.0 U	UG/L	1,2,3-Trichloropropane
1.0 U	UG/L	o-Chlorotoluene
1.0 U	UG/L	p-Chlorotoluene
1.0 U	UG/L	1,3-Dichlorobenzene
1.0 U	UG/L	1,4-Dichlorobenzene
1.0 U	UG/L	1,2-Dichlorobenzene
1.0 U	UG/L	1,2-Dibromoethane (EDB)
1.0 U	UG/L	Isopropylbenzene
1.0 U	UG/L	n-Propylbenzene
1.0 U	UG/L	1,3,5-Trimethylbenzene
1.0 U	UG/L	tert-Butylbenzene
1.0 U	UG/L	1,2,4-Trimethylbenzene
1.0 U	UG/L	sec-Butylbenzene
1.0 U	UG/L	p-Isopropyltoluene
1.0 U	UG/L	n-Butylbenzene
2.0 U	UG/L	1,2-Dibromo-3-Chloropropane (DBCP)
2.0 U	UG/L	1,2,4-Trichlorobenzene
1.0 U	UG/L	Hexachloro-1,3-Butadiene
1.0 U	UG/L	1,2,3-Trichlorobenzene

MEK RSD >15% on ICAL

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

VOLATILES SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/28/2005 11:30**

Sample **3801** FY **2005** Project: **05-0474**

Volatiles Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-PZ-26A / VC-PZ-26A
Media: GROUNDWATER

Produced by: Hale, Sallie
Requestor:
Project Leader: AMASTERS
Beginning: 04/02/2005 08:40
Ending:

RESULTS	UNITS	ANALYTE
1.0 U	UG/L	Dichlorodifluoromethane
1.0 U	UG/L	Chloromethane
1.0 U	UG/L	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)
1.0 U	UG/L	Methyl T-Butyl Ether (MTBE)
1.0 U	UG/L	Bromomethane
1.0 U	UG/L	Cyclohexane
1.0 U	UG/L	Vinyl Chloride
1.0 U	UG/L	Chloroethane
1.0 U	UG/L	Trichlorofluoromethane (Freon 11)
1.0 U	UG/L	1,1-Dichloroethene (1,1-Dichloroethylene)
1.0 U	UG/L	Methylene Chloride
5.0 U	UG/L	Acetone
1.0 U	UG/L	Carbon Disulfide
2.0 U	UG/L	Methyl Acetate
1.0 U	UG/L	1,1-Dichloroethane
1.0 U	UG/L	cis-1,2-Dichloroethene
1.0 U	UG/L	2,2-Dichloropropane
5.0 UJ	UG/L	Methyl Ethyl Ketone
1.0 U	UG/L	Bromochloromethane
1.0 U	UG/L	trans-1,2-Dichloroethene
0.091 J	UG/L	Chloroform
1.0 U	UG/L	1,2-Dichloroethane
1.0 U	UG/L	1,1,1-Trichloroethane
1.0 U	UG/L	1,1-Dichloropropene
1.0 U	UG/L	Carbon Tetrachloride
1.0 U	UG/L	Bromodichloromethane
5.0 U	UG/L	Methyl Isobutyl Ketone
1.0 U	UG/L	1,2-Dichloropropane
1.0 U	UG/L	Methylcyclohexane
1.0 U	UG/L	Dibromomethane
1.0 U	UG/L	trans-1,3-Dichloropropene
1.0 U	UG/L	Trichloroethene (Trichloroethylene)
1.0 U	UG/L	Benzene
1.0 U	UG/L	Dibromochloromethane
1.0 U	UG/L	1,1,2-Trichloroethane

RESULTS	UNITS	ANALYTE
1.0 U	UG/L	cis-1,3-Dichloropropene
1.0 U	UG/L	Bromoform
1.0 U	UG/L	Bromobenzene
1.0 U	UG/L	1,1,2,2-Tetrachloroethane
1.0 U	UG/L	Tetrachloroethene (Tetrachloroethylene)
1.0 U	UG/L	1,3-Dichloropropane
5.0 U	UG/L	Methyl Butyl Ketone
1.0 U	UG/L	Toluene
1.0 U	UG/L	Chlorobenzene
1.0 U	UG/L	1,1,1,2-Tetrachloroethane
1.0 U	UG/L	Ethyl Benzene
2.0 U	UG/L	(m- and/or p-)Xylene
1.0 U	UG/L	o-Xylene
1.0 U	UG/L	Styrene
1.0 U	UG/L	1,2,3-Trichloropropane
1.0 U	UG/L	o-Chlorotoluene
1.0 U	UG/L	p-Chlorotoluene
1.0 U	UG/L	1,3-Dichlorobenzene
1.0 U	UG/L	1,4-Dichlorobenzene
1.0 U	UG/L	1,2-Dichlorobenzene
1.0 U	UG/L	1,2-Dibromoethane (EDB)
1.0 U	UG/L	Isopropylbenzene
1.0 U	UG/L	n-Propylbenzene
1.0 U	UG/L	1,3,5-Trimethylbenzene
1.0 U	UG/L	tert-Butylbenzene
1.0 U	UG/L	1,2,4-Trimethylbenzene
1.0 U	UG/L	sec-Butylbenzene
1.0 U	UG/L	p-Isopropyltoluene
1.0 U	UG/L	n-Butylbenzene
2.0 U	UG/L	1,2-Dibromo-3-Chloropropane (DBCP)
2.0 U	UG/L	1,2,4-Trichlorobenzene
1.0 U	UG/L	Hexachloro-1,3-Butadiene
1.0 U	UG/L	1,2,3-Trichlorobenzene

MEK RSD >15% on ICAL
Chloroform J-qualified because value is >MDL but <MQL

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

VOLATILES SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/28/2005 11:30**

Sample **3802** FY **2005** Project: **05-0474**

Volatiles Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-RB-01 / VC-RB-01
Media: EQUIPMENT RINSE BLANK

Produced by: Hale, Sallie
Requestor:
Project Leader: AMASTERS
Beginning: 04/02/2005 09:45
Ending:

RESULTS	UNITS	ANALYTE
1.0 U	UG/L	Dichlorodifluoromethane
1.0 U	UG/L	Chloromethane
1.0 U	UG/L	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)
1.0 U	UG/L	Methyl T-Butyl Ether (MTBE)
1.0 U	UG/L	Bromomethane
1.0 U	UG/L	Cyclohexane
1.0 U	UG/L	Vinyl Chloride
1.0 U	UG/L	Chloroethane
1.0 U	UG/L	Trichlorofluoromethane (Freon 11)
1.0 U	UG/L	1,1-Dichloroethene (1,1-Dichloroethylene)
1.0 U	UG/L	Methylene Chloride
5.0 U	UG/L	Acetone
1.0 U	UG/L	Carbon Disulfide
2.0 U	UG/L	Methyl Acetate
1.0 U	UG/L	1,1-Dichloroethane
1.0 U	UG/L	cis-1,2-Dichloroethene
1.0 U	UG/L	2,2-Dichloropropane
5.0 UJ	UG/L	Methyl Ethyl Ketone
1.0 U	UG/L	Bromochloromethane
1.0 U	UG/L	trans-1,2-Dichloroethene
15	UG/L	Chloroform
1.0 U	UG/L	1,2-Dichloroethane
1.0 U	UG/L	1,1,1-Trichloroethane
1.0 U	UG/L	1,1-Dichloropropene
1.0 U	UG/L	Carbon Tetrachloride
1.0 U	UG/L	Bromodichloromethane
5.0 U	UG/L	Methyl Isobutyl Ketone
1.0 U	UG/L	1,2-Dichloropropane
1.0 U	UG/L	Methylcyclohexane
1.0 U	UG/L	Dibromomethane
1.0 U	UG/L	trans-1,3-Dichloropropene
1.0 U	UG/L	Trichloroethene (Trichloroethylene)
1.0 U	UG/L	Benzene
1.0 U	UG/L	Dibromochloromethane
1.0 U	UG/L	1,1,2-Trichloroethane

RESULTS	UNITS	ANALYTE
1.0 U	UG/L	cis-1,3-Dichloropropene
1.0 U	UG/L	Bromoform
1.0 U	UG/L	Bromobenzene
1.0 U	UG/L	1,1,2,2-Tetrachloroethane
1.0 U	UG/L	Tetrachloroethene (Tetrachloroethylene)
1.0 U	UG/L	1,3-Dichloropropane
5.0 U	UG/L	Methyl Butyl Ketone
1.0 U	UG/L	Toluene
1.0 U	UG/L	Chlorobenzene
1.0 U	UG/L	1,1,1,2-Tetrachloroethane
1.0 U	UG/L	Ethyl Benzene
2.0 U	UG/L	(m- and/or p-)Xylene
1.0 U	UG/L	o-Xylene
1.0 U	UG/L	Styrene
1.0 U	UG/L	1,2,3-Trichloropropane
1.0 U	UG/L	o-Chlorotoluene
1.0 U	UG/L	p-Chlorotoluene
1.0 U	UG/L	1,3-Dichlorobenzene
1.0 U	UG/L	1,4-Dichlorobenzene
1.0 U	UG/L	1,2-Dichlorobenzene
1.0 U	UG/L	1,2-Dibromoethane (EDB)
1.0 U	UG/L	Isopropylbenzene
1.0 U	UG/L	n-Propylbenzene
1.0 U	UG/L	1,3,5-Trimethylbenzene
1.0 U	UG/L	tert-Butylbenzene
1.0 U	UG/L	1,2,4-Trimethylbenzene
1.0 U	UG/L	sec-Butylbenzene
1.0 U	UG/L	p-Isopropyltoluene
1.0 U	UG/L	n-Butylbenzene
2.0 U	UG/L	1,2-Dibromo-3-Chloropropane (DBCP)
2.0 U	UG/L	1,2,4-Trichlorobenzene
1.0 U	UG/L	Hexachloro-1,3-Butadiene
1.0 U	UG/L	1,2,3-Trichlorobenzene

MEK RSD >15% on ICAL

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

VOLATILES SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/28/2005 11:30**

Sample **3803** FY **2005** Project: **05-0474**

Volatiles Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-MW-14 / VC-MW-14
Media: GROUNDWATER

Produced by: Hale, Sallie
Requestor:
Project Leader: AMASTERS
Beginning: 03/31/2005 12:10
Ending:

RESULTS	UNITS	ANALYTE
1.0 U	UG/L	Dichlorodifluoromethane
1.0 U	UG/L	Chloromethane
1.0 U	UG/L	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)
1.0 U	UG/L	Methyl T-Butyl Ether (MTBE)
1.0 U	UG/L	Bromomethane
1.0 U	UG/L	Cyclohexane
1.0 U	UG/L	Vinyl Chloride
1.0 U	UG/L	Chloroethane
1.0 U	UG/L	Trichlorofluoromethane (Freon 11)
1.0 U	UG/L	1,1-Dichloroethene (1,1-Dichloroethylene)
1.0 U	UG/L	Methylene Chloride
5.0 U	UG/L	Acetone
1.0 U	UG/L	Carbon Disulfide
2.0 U	UG/L	Methyl Acetate
1.0 U	UG/L	1,1-Dichloroethane
1.0 U	UG/L	cis-1,2-Dichloroethene
1.0 U	UG/L	2,2-Dichloropropane
5.0 UJ	UG/L	Methyl Ethyl Ketone
1.0 U	UG/L	Bromochloromethane
1.0 U	UG/L	trans-1,2-Dichloroethene
1.0 U	UG/L	Chloroform
1.0 U	UG/L	1,2-Dichloroethane
1.0 U	UG/L	1,1,1-Trichloroethane
1.0 U	UG/L	1,1-Dichloropropene
1.0 U	UG/L	Carbon Tetrachloride
1.0 U	UG/L	Bromodichloromethane
5.0 U	UG/L	Methyl Isobutyl Ketone
1.0 U	UG/L	1,2-Dichloropropane
1.0 U	UG/L	Methylcyclohexane
1.0 U	UG/L	Dibromomethane
1.0 U	UG/L	trans-1,3-Dichloropropene
1.0 U	UG/L	Trichloroethene (Trichloroethylene)
1.0 U	UG/L	Benzene
1.0 U	UG/L	Dibromochloromethane
1.0 U	UG/L	1,1,2-Trichloroethane

RESULTS	UNITS	ANALYTE
1.0 U	UG/L	cis-1,3-Dichloropropene
1.0 U	UG/L	Bromoform
1.0 U	UG/L	Bromobenzene
1.0 U	UG/L	1,1,2,2-Tetrachloroethane
1.0 U	UG/L	Tetrachloroethene (Tetrachloroethylene)
1.0 U	UG/L	1,3-Dichloropropane
5.0 U	UG/L	Methyl Butyl Ketone
1.0 U	UG/L	Toluene
1.0 U	UG/L	Chlorobenzene
1.0 U	UG/L	1,1,1,2-Tetrachloroethane
1.0 U	UG/L	Ethyl Benzene
2.0 U	UG/L	(m- and/or p-)Xylene
1.0 U	UG/L	o-Xylene
1.0 U	UG/L	Styrene
1.0 U	UG/L	1,2,3-Trichloropropane
1.0 U	UG/L	o-Chlorotoluene
1.0 U	UG/L	p-Chlorotoluene
1.0 U	UG/L	1,3-Dichlorobenzene
1.0 U	UG/L	1,4-Dichlorobenzene
1.0 U	UG/L	1,2-Dichlorobenzene
1.0 U	UG/L	1,2-Dibromoethane (EDB)
1.0 U	UG/L	Isopropylbenzene
1.0 U	UG/L	n-Propylbenzene
1.0 U	UG/L	1,3,5-Trimethylbenzene
1.0 U	UG/L	tert-Butylbenzene
1.0 U	UG/L	1,2,4-Trimethylbenzene
1.0 U	UG/L	sec-Butylbenzene
1.0 U	UG/L	p-Isopropyltoluene
1.0 U	UG/L	n-Butylbenzene
2.0 U	UG/L	1,2-Dibromo-3-Chloropropane (DBCP)
2.0 U	UG/L	1,2,4-Trichlorobenzene
1.0 U	UG/L	Hexachloro-1,3-Butadiene
1.0 U	UG/L	1,2,3-Trichlorobenzene

MEK RSD >15% on ICAL

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

EXTRACTABLES SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/27/2005 11:49**

Sample **3663** FY **2005** Project: **05-0474**

Extractables Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SW-09 /
Media: SURFACE WATER

Produced by: Revell, Dennis
Requestor:
Project Leader: AMASTERS
Beginning: 03/28/2005 11:45
Ending:

RESULTS	UNITS	ANALYTE
10 U	UG/L	bis(2-Chloroethyl) Ether
10 U	UG/L	Benzaldehyde
10 U	UG/L	Hexachloroethane
10 U	UG/L	bis(2-Chloroisopropyl) Ether
10 U	UG/L	n-Nitroso di-n-Propylamine
10 U	UG/L	Acetophenone
10 U	UG/L	Nitrobenzene
10 U	UG/L	Hexachlorobutadiene
10 U	UG/L	Caprolactam
10 U	UG/L	2-Methylnaphthalene
10 U	UG/L	1,2,4-Trichlorobenzene
10 U	UG/L	Naphthalene
10 U	UG/L	4-Chloroaniline
10 U	UG/L	bis(2-Chloroethoxy)Methane
10 U	UG/L	Isophorone
10 U	UG/L	Hexachlorocyclopentadiene (HCCP)
10 U	UG/L	1,1-Biphenyl
10 U	UG/L	2-Chloronaphthalene
10 U	UG/L	2-Nitroaniline
10 U	UG/L	Acenaphthylene
10 U	UG/L	Acenaphthene
10 U	UG/L	Dimethyl Phthalate
10 U	UG/L	Dibenzofuran
10 U	UG/L	2,4-Dinitrotoluene
10 U	UG/L	2,6-Dinitrotoluene
10 U	UG/L	3-Nitroaniline
10 U	UG/L	4-Chlorophenyl Phenyl Ether
10 U	UG/L	4-Nitroaniline
10 U	UG/L	Fluorene
10 U	UG/L	Diethyl Phthalate
10 U	UG/L	n-Nitrosodiphenylamine/Diphenylamine
10 U	UG/L	Hexachlorobenzene (HCB)
10 U	UG/L	Atrazine
10 U	UG/L	4-Bromophenyl Phenyl Ether
10 U	UG/L	Phenanthrene

RESULTS	UNITS	ANALYTE
10 U	UG/L	Anthracene
10 U	UG/L	Carbazole
10 U	UG/L	Di-n-Butylphthalate
10 U	UG/L	Fluoranthene
10 U	UG/L	Pyrene
10 U	UG/L	Benzyl Butyl Phthalate
10 U	UG/L	bis(2-Ethylhexyl) Phthalate
10 U	UG/L	Benzo(a)Anthracene
10 U	UG/L	Chrysene
10 U	UG/L	3,3'-Dichlorobenzidine
10 U	UG/L	Di-n-Octylphthalate
10 U	UG/L	Benzo(b)Fluoranthene
10 U	UG/L	Benzo(k)Fluoranthene
10 U	UG/L	Benzo-a-Pyrene
10 U	UG/L	Indeno (1,2,3-cd) Pyrene
10 U	UG/L	Dibenzo(a,h)Anthracene
10 U	UG/L	Benzo(ghi)Perylene
10 U	UG/L	2-Chlorophenol
10 U	UG/L	2-Methylphenol
10 U	UG/L	(3-and/or 4-)Methylphenol
10 U	UG/L	2-Nitrophenol
10 U	UG/L	Phenol
10 U	UG/L	2,4-Dimethylphenol
10 U	UG/L	2,4-Dichlorophenol
10 U	UG/L	2,4,6-Trichlorophenol
10 U	UG/L	2,4,5-Trichlorophenol
10 U	UG/L	4-Chloro-3-Methylphenol
20 U	UG/L	2,4-Dinitrophenol
20 U	UG/L	2-Methyl-4,6-Dinitrophenol
20 U	UG/L	Pentachlorophenol
20 U	UG/L	4-Nitrophenol
10 U	UG/L	2,3,4,6-Tetrachlorophenol

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

EXTRACTABLES SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/27/2005 11:49**

Sample **3663** FY **2005** Project: **05-0474**

MISCELLANEOUS COMPOUNDS

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SW-09 /
Media: SURFACE WATER

Produced by: Revell, Dennis
Requestor:
Project Leader: AMASTERS
Beginning: 03/28/2005 11:45
Ending:

RESULTS	UNITS	ANALYTE
10 NJ	UG/L	Hexadecanoic acid

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

EXTRACTABLES SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/27/2005 11:49**

Sample **3782** FY **2005** Project: **05-0474**

Extractables Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-MW-10C / VC-MW-10C
Media: GROUNDWATER

Produced by: Revell, Dennis
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 17:15
Ending:

RESULTS	UNITS	ANALYTE
10 U	UG/L	bis(2-Chloroethyl) Ether
10 U	UG/L	Benzaldehyde
10 U	UG/L	Hexachloroethane
10 U	UG/L	bis(2-Chloroisopropyl) Ether
10 U	UG/L	n-Nitroso di-n-Propylamine
10 U	UG/L	Acetophenone
10 U	UG/L	Nitrobenzene
10 U	UG/L	Hexachlorobutadiene
10 U	UG/L	Caprolactam
10 U	UG/L	2-Methylnaphthalene
10 U	UG/L	1,2,4-Trichlorobenzene
10 U	UG/L	Naphthalene
10 U	UG/L	4-Chloroaniline
10 U	UG/L	bis(2-Chloroethoxy)Methane
10 U	UG/L	Isophorone
10 U	UG/L	Hexachlorocyclopentadiene (HCCP)
10 U	UG/L	1,1-Biphenyl
10 U	UG/L	2-Chloronaphthalene
10 U	UG/L	2-Nitroaniline
10 U	UG/L	Acenaphthylene
10 U	UG/L	Acenaphthene
10 U	UG/L	Dimethyl Phthalate
10 U	UG/L	Dibenzofuran
10 U	UG/L	2,4-Dinitrotoluene
10 U	UG/L	2,6-Dinitrotoluene
10 U	UG/L	3-Nitroaniline
10 U	UG/L	4-Chlorophenyl Phenyl Ether
10 U	UG/L	4-Nitroaniline
10 U	UG/L	Fluorene
10 U	UG/L	Diethyl Phthalate
10 U	UG/L	n-Nitrosodiphenylamine/Diphenylamine
10 U	UG/L	Hexachlorobenzene (HCB)
10 U	UG/L	Atrazine
10 U	UG/L	4-Bromophenyl Phenyl Ether
10 U	UG/L	Phenanthrene

RESULTS	UNITS	ANALYTE
10 U	UG/L	Anthracene
10 U	UG/L	Carbazole
10 U	UG/L	Di-n-Butylphthalate
10 U	UG/L	Fluoranthene
10 U	UG/L	Pyrene
10 U	UG/L	Benzyl Butyl Phthalate
10 U	UG/L	bis(2-Ethylhexyl) Phthalate
10 U	UG/L	Benzo(a)Anthracene
10 U	UG/L	Chrysene
10 U	UG/L	3,3'-Dichlorobenzidine
10 U	UG/L	Di-n-Octylphthalate
10 U	UG/L	Benzo(b)Fluoranthene
10 U	UG/L	Benzo(k)Fluoranthene
10 U	UG/L	Benzo-a-Pyrene
10 U	UG/L	Indeno (1,2,3-cd) Pyrene
10 U	UG/L	Dibenzo(a,h)Anthracene
10 U	UG/L	Benzo(ghi)Perylene
10 U	UG/L	2-Chlorophenol
10 U	UG/L	2-Methylphenol
10 U	UG/L	(3-and/or 4-)Methylphenol
10 U	UG/L	2-Nitrophenol
10 U	UG/L	Phenol
10 U	UG/L	2,4-Dimethylphenol
10 U	UG/L	2,4-Dichlorophenol
10 U	UG/L	2,4,6-Trichlorophenol
10 U	UG/L	2,4,5-Trichlorophenol
10 U	UG/L	4-Chloro-3-Methylphenol
20 U	UG/L	2,4-Dinitrophenol
20 U	UG/L	2-Methyl-4,6-Dinitrophenol
20 U	UG/L	Pentachlorophenol
20 U	UG/L	4-Nitrophenol
10 U	UG/L	2,3,4,6-Tetrachlorophenol

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

EXTRACTABLES SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/27/2005 11:49**

Sample **3783** FY **2005** Project: **05-0474**

Extractables Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-MW-12C / VC-MW-12C
Media: GROUNDWATER

Produced by: Revell, Dennis
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 17:30
Ending:

RESULTS	UNITS	ANALYTE
10 U	UG/L	bis(2-Chloroethyl) Ether
10 U	UG/L	Benzaldehyde
15	UG/L	Hexachloroethane
10 U	UG/L	bis(2-Chloroisopropyl) Ether
10 U	UG/L	n-Nitroso di-n-Propylamine
10 U	UG/L	Acetophenone
10 U	UG/L	Nitrobenzene
10 U	UG/L	Hexachlorobutadiene
10 U	UG/L	Caprolactam
10 U	UG/L	2-Methylnaphthalene
10 U	UG/L	1,2,4-Trichlorobenzene
5.1 J	UG/L	Naphthalene
10 U	UG/L	4-Chloroaniline
10 U	UG/L	bis(2-Chloroethoxy)Methane
10 U	UG/L	Isophorone
10 U	UG/L	Hexachlorocyclopentadiene (HCCP)
10 U	UG/L	1,1-Biphenyl
10 U	UG/L	2-Chloronaphthalene
10 U	UG/L	2-Nitroaniline
10 U	UG/L	Acenaphthylene
10 U	UG/L	Acenaphthene
10 U	UG/L	Dimethyl Phthalate
10 U	UG/L	Dibenzofuran
10 U	UG/L	2,4-Dinitrotoluene
10 U	UG/L	2,6-Dinitrotoluene
10 U	UG/L	3-Nitroaniline
10 U	UG/L	4-Chlorophenyl Phenyl Ether
10 U	UG/L	4-Nitroaniline
10 U	UG/L	Fluorene
10 U	UG/L	Diethyl Phthalate
10 U	UG/L	n-Nitrosodiphenylamine/Diphenylamine
10 U	UG/L	Hexachlorobenzene (HCB)
10 U	UG/L	Atrazine
10 U	UG/L	4-Bromophenyl Phenyl Ether
10 U	UG/L	Phenanthrene

RESULTS	UNITS	ANALYTE
10 U	UG/L	Anthracene
10 U	UG/L	Carbazole
10 U	UG/L	Di-n-Butylphthalate
10 U	UG/L	Fluoranthene
10 U	UG/L	Pyrene
10 U	UG/L	Benzyl Butyl Phthalate
10 U	UG/L	bis(2-Ethylhexyl) Phthalate
10 U	UG/L	Benzo(a)Anthracene
10 U	UG/L	Chrysene
10 U	UG/L	3,3'-Dichlorobenzidine
10 U	UG/L	Di-n-Octylphthalate
10 U	UG/L	Benzo(b)Fluoranthene
10 U	UG/L	Benzo(k)Fluoranthene
10 U	UG/L	Benzo-a-Pyrene
10 U	UG/L	Indeno (1,2,3-cd) Pyrene
10 U	UG/L	Dibenzo(a,h)Anthracene
10 U	UG/L	Benzo(ghi)Perylene
10 U	UG/L	2-Chlorophenol
10 U	UG/L	2-Methylphenol
10 U	UG/L	(3-and/or 4-)Methylphenol
10 U	UG/L	2-Nitrophenol
10 U	UG/L	Phenol
10 U	UG/L	2,4-Dimethylphenol
10 U	UG/L	2,4-Dichlorophenol
10 U	UG/L	2,4,6-Trichlorophenol
10 U	UG/L	2,4,5-Trichlorophenol
10 U	UG/L	4-Chloro-3-Methylphenol
36	UG/L	2,4-Dinitrophenol
400	UG/L	2-Methyl-4,6-Dinitrophenol
20 U	UG/L	Pentachlorophenol
14 J	UG/L	4-Nitrophenol
10 U	UG/L	2,3,4,6-Tetrachlorophenol

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

EXTRACTABLES SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/27/2005 11:49**

Sample **3784** FY **2005** Project: **05-0474**

Extractables Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-MW-17A / VC-MW-17A
Media: GROUNDWATER

Produced by: Revell, Dennis
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 18:50
Ending:

RESULTS	UNITS	ANALYTE
10 U	UG/L	bis(2-Chloroethyl) Ether
10 U	UG/L	Benzaldehyde
10 U	UG/L	Hexachloroethane
10 U	UG/L	bis(2-Chloroisopropyl) Ether
10 U	UG/L	n-Nitroso di-n-Propylamine
10 U	UG/L	Acetophenone
10 U	UG/L	Nitrobenzene
10 U	UG/L	Hexachlorobutadiene
2.8 J	UG/L	Caprolactam
10 U	UG/L	2-Methylnaphthalene
10 U	UG/L	1,2,4-Trichlorobenzene
10 U	UG/L	Naphthalene
10 U	UG/L	4-Chloroaniline
10 U	UG/L	bis(2-Chloroethoxy)Methane
10 U	UG/L	Isophorone
10 U	UG/L	Hexachlorocyclopentadiene (HCCP)
10 U	UG/L	1,1-Biphenyl
10 U	UG/L	2-Chloronaphthalene
10 U	UG/L	2-Nitroaniline
10 U	UG/L	Acenaphthylene
10 U	UG/L	Acenaphthene
10 U	UG/L	Dimethyl Phthalate
10 U	UG/L	Dibenzofuran
10 U	UG/L	2,4-Dinitrotoluene
10 U	UG/L	2,6-Dinitrotoluene
10 U	UG/L	3-Nitroaniline
10 U	UG/L	4-Chlorophenyl Phenyl Ether
10 U	UG/L	4-Nitroaniline
10 U	UG/L	Fluorene
10 U	UG/L	Diethyl Phthalate
10 U	UG/L	n-Nitrosodiphenylamine/Diphenylamine
10 U	UG/L	Hexachlorobenzene (HCB)
10 U	UG/L	Atrazine
10 U	UG/L	4-Bromophenyl Phenyl Ether
10 U	UG/L	Phenanthrene

RESULTS	UNITS	ANALYTE
10 U	UG/L	Anthracene
10 U	UG/L	Carbazole
10 U	UG/L	Di-n-Butylphthalate
10 U	UG/L	Fluoranthene
10 U	UG/L	Pyrene
10 U	UG/L	Benzyl Butyl Phthalate
10 U	UG/L	bis(2-Ethylhexyl) Phthalate
10 U	UG/L	Benzo(a)Anthracene
10 U	UG/L	Chrysene
10 U	UG/L	3,3'-Dichlorobenzidine
10 U	UG/L	Di-n-Octylphthalate
10 U	UG/L	Benzo(b)Fluoranthene
10 U	UG/L	Benzo(k)Fluoranthene
10 U	UG/L	Benzo-a-Pyrene
10 U	UG/L	Indeno (1,2,3-cd) Pyrene
10 U	UG/L	Dibenzo(a,h)Anthracene
10 U	UG/L	Benzo(ghi)Perylene
10 U	UG/L	2-Chlorophenol
10 U	UG/L	2-Methylphenol
10 U	UG/L	(3-and/or 4-)Methylphenol
10 U	UG/L	2-Nitrophenol
10 U	UG/L	Phenol
10 U	UG/L	2,4-Dimethylphenol
10 U	UG/L	2,4-Dichlorophenol
10 U	UG/L	2,4,6-Trichlorophenol
10 U	UG/L	2,4,5-Trichlorophenol
10 U	UG/L	4-Chloro-3-Methylphenol
20 U	UG/L	2,4-Dinitrophenol
20 U	UG/L	2-Methyl-4,6-Dinitrophenol
20 U	UG/L	Pentachlorophenol
20 U	UG/L	4-Nitrophenol
10 U	UG/L	2,3,4,6-Tetrachlorophenol

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

EXTRACTABLES SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/27/2005 11:49**

Sample **3784** FY **2005** Project: **05-0474**

MISCELLANEOUS COMPOUNDS

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-MW-17A / VC-MW-17A
Media: GROUNDWATER

Produced by: Revell, Dennis
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 18:50
Ending:

RESULTS	UNITS	ANALYTE
20 NJ	UG/L	Methylbenzotriazole

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

EXTRACTABLES SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/27/2005 11:49**

Sample **3785** FY **2005** Project: **05-0474**

Extractables Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-MW-18A / VC-MW-18A
Media: GROUNDWATER

Produced by: Revell, Dennis
Requestor:
Project Leader: AMASTERS
Beginning: 03/30/2005 08:55
Ending:

RESULTS	UNITS	ANALYTE
10 U	UG/L	bis(2-Chloroethyl) Ether
10 U	UG/L	Benzaldehyde
10 U	UG/L	Hexachloroethane
10 U	UG/L	bis(2-Chloroisopropyl) Ether
10 U	UG/L	n-Nitroso di-n-Propylamine
10 U	UG/L	Acetophenone
10 U	UG/L	Nitrobenzene
10 U	UG/L	Hexachlorobutadiene
10 U	UG/L	Caprolactam
10 U	UG/L	2-Methylnaphthalene
10 U	UG/L	1,2,4-Trichlorobenzene
10 U	UG/L	Naphthalene
10 U	UG/L	4-Chloroaniline
10 U	UG/L	bis(2-Chloroethoxy)Methane
10 U	UG/L	Isophorone
10 U	UG/L	Hexachlorocyclopentadiene (HCCP)
10 U	UG/L	1,1-Biphenyl
10 U	UG/L	2-Chloronaphthalene
10 U	UG/L	2-Nitroaniline
10 U	UG/L	Acenaphthylene
10 U	UG/L	Acenaphthene
10 U	UG/L	Dimethyl Phthalate
10 U	UG/L	Dibenzofuran
10 U	UG/L	2,4-Dinitrotoluene
10 U	UG/L	2,6-Dinitrotoluene
10 U	UG/L	3-Nitroaniline
10 U	UG/L	4-Chlorophenyl Phenyl Ether
10 U	UG/L	4-Nitroaniline
10 U	UG/L	Fluorene
10 U	UG/L	Diethyl Phthalate
10 U	UG/L	n-Nitrosodiphenylamine/Diphenylamine
10 U	UG/L	Hexachlorobenzene (HCB)
10 U	UG/L	Atrazine
10 U	UG/L	4-Bromophenyl Phenyl Ether
10 U	UG/L	Phenanthrene

RESULTS	UNITS	ANALYTE
10 U	UG/L	Anthracene
10 U	UG/L	Carbazole
10 U	UG/L	Di-n-Butylphthalate
10 U	UG/L	Fluoranthene
10 U	UG/L	Pyrene
10 U	UG/L	Benzyl Butyl Phthalate
10 U	UG/L	bis(2-Ethylhexyl) Phthalate
10 U	UG/L	Benzo(a)Anthracene
10 U	UG/L	Chrysene
10 U	UG/L	3,3'-Dichlorobenzidine
10 U	UG/L	Di-n-Octylphthalate
10 U	UG/L	Benzo(b)Fluoranthene
10 U	UG/L	Benzo(k)Fluoranthene
10 U	UG/L	Benzo-a-Pyrene
10 U	UG/L	Indeno (1,2,3-cd) Pyrene
10 U	UG/L	Dibenzo(a,h)Anthracene
10 U	UG/L	Benzo(ghi)Perylene
10 U	UG/L	2-Chlorophenol
10 U	UG/L	2-Methylphenol
10 U	UG/L	(3-and/or 4-)Methylphenol
10 U	UG/L	2-Nitrophenol
6.7 J	UG/L	Phenol
10 U	UG/L	2,4-Dimethylphenol
10 U	UG/L	2,4-Dichlorophenol
10 U	UG/L	2,4,6-Trichlorophenol
10 U	UG/L	2,4,5-Trichlorophenol
10 U	UG/L	4-Chloro-3-Methylphenol
20 U	UG/L	2,4-Dinitrophenol
20 U	UG/L	2-Methyl-4,6-Dinitrophenol
20 U	UG/L	Pentachlorophenol
20 U	UG/L	4-Nitrophenol
10 U	UG/L	2,3,4,6-Tetrachlorophenol

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

EXTRACTABLES SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/27/2005 15:51**

Sample **3802** FY **2005** Project: **05-0474**

Extractables Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-RB-01 / VC-RB-01
Media: EQUIPMENT RINSE BLANK

Produced by: Muse, Janet
Requestor:
Project Leader: AMASTERS
Beginning: 04/02/2005 09:45
Ending:

RESULTS	UNITS	ANALYTE
10 U	UG/L	bis(2-Chloroethyl) Ether
10 U	UG/L	Benzaldehyde
10 U	UG/L	Hexachloroethane
10 U	UG/L	bis(2-Chloroisopropyl) Ether
10 U	UG/L	n-Nitroso di-n-Propylamine
10 U	UG/L	Acetophenone
10 U	UG/L	Nitrobenzene
10 U	UG/L	Hexachlorobutadiene
10 U	UG/L	Caprolactam
10 U	UG/L	2-Methylnaphthalene
10 U	UG/L	1,2,4-Trichlorobenzene
10 U	UG/L	Naphthalene
10 U	UG/L	4-Chloroaniline
10 U	UG/L	bis(2-Chloroethoxy)Methane
10 U	UG/L	Isophorone
10 U	UG/L	Hexachlorocyclopentadiene (HCCP)
10 U	UG/L	1,1-Biphenyl
10 U	UG/L	2-Chloronaphthalene
10 U	UG/L	2-Nitroaniline
10 U	UG/L	Acenaphthylene
10 U	UG/L	Acenaphthene
10 U	UG/L	Dimethyl Phthalate
10 U	UG/L	Dibenzofuran
10 U	UG/L	2,4-Dinitrotoluene
10 U	UG/L	2,6-Dinitrotoluene
10 U	UG/L	3-Nitroaniline
10 U	UG/L	4-Chlorophenyl Phenyl Ether
10 U	UG/L	4-Nitroaniline
10 U	UG/L	Fluorene
10 U	UG/L	Diethyl Phthalate
10 U	UG/L	n-Nitrosodiphenylamine/Diphenylamine
10 U	UG/L	Hexachlorobenzene (HCB)
10 U	UG/L	Atrazine
10 U	UG/L	4-Bromophenyl Phenyl Ether
10 U	UG/L	Phenanthrene

RESULTS	UNITS	ANALYTE
10 U	UG/L	Anthracene
10 U	UG/L	Carbazole
10 U	UG/L	Di-n-Butylphthalate
10 U	UG/L	Fluoranthene
10 U	UG/L	Pyrene
10 U	UG/L	Benzyl Butyl Phthalate
10 U	UG/L	bis(2-Ethylhexyl) Phthalate
10 U	UG/L	Benzo(a)Anthracene
10 U	UG/L	Chrysene
10 U	UG/L	3,3'-Dichlorobenzidine
10 U	UG/L	Di-n-Octylphthalate
10 U	UG/L	Benzo(b)Fluoranthene
10 U	UG/L	Benzo(k)Fluoranthene
10 U	UG/L	Benzo-a-Pyrene
10 U	UG/L	Indeno (1,2,3-cd) Pyrene
10 U	UG/L	Dibenzo(a,h)Anthracene
10 U	UG/L	Benzo(ghi)Perylene
10 U	UG/L	2-Chlorophenol
10 U	UG/L	2-Methylphenol
10 U	UG/L	(3-and/or 4-)Methylphenol
10 U	UG/L	2-Nitrophenol
10 U	UG/L	Phenol
10 U	UG/L	2,4-Dimethylphenol
10 U	UG/L	2,4-Dichlorophenol
10 U	UG/L	2,4,6-Trichlorophenol
10 U	UG/L	2,4,5-Trichlorophenol
10 U	UG/L	4-Chloro-3-Methylphenol
20 U	UG/L	2,4-Dinitrophenol
20 U	UG/L	2-Methyl-4,6-Dinitrophenol
20 U	UG/L	Pentachlorophenol
20 U	UG/L	4-Nitrophenol
10 U	UG/L	2,3,4,6-Tetrachlorophenol

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

METALS SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/29/2005 15:28**

Sample **4530** FY **2005** Project: **05-0475**

Metals Scan

Facility: Vicksburg Chemical — Vicksburg, MS
Program: RCRP — Case No: 34024
Id/Station: VCSD09 / — MD No: 32N4 — Inorg Contractor: LIBRTY
Media: SEDIMENT

Produced by: Goddard, Denise
Requestor:
Project Leader: AMASTERS
Beginning: 03/28/2005 11:45
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
5.6	MG/KG	Arsenic
96	MG/KG	Barium
0.30 UJ	MG/KG	Cadmium
7.3 J	MG/KG	Chromium
8.3 J	MG/KG	Lead
0.03 UJ	MG/KG	Total Mercury
0.57 UJ	MG/KG	Selenium
1.3 U	MG/KG	Silver
23	%	% Moisture

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

METALS SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/29/2005 15:28**

Sample **4531** FY **2005** Project: **05-0475**

Metals Scan

Facility: Vicksburg Chemical — Vicksburg, MS
Program: RCRP — Case No: 34024
Id/Station: VCSD10 / — MD No: 32N5 — Inorg Contractor: LIBRTY
Media: SEDIMENT

Produced by: Goddard, Denise
Requestor:
Project Leader: AMASTERS
Beginning: 03/28/2005 10:45
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
5.5	MG/KG	Arsenic
97	MG/KG	Barium
0.34 UJ	MG/KG	Cadmium
8.8 J	MG/KG	Chromium
9.3 J	MG/KG	Lead
0.05 UJ	MG/KG	Total Mercury
0.55 UJ	MG/KG	Selenium
1.5 U	MG/KG	Silver
31	%	% Moisture

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

METALS SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/29/2005 15:28**

Sample **4532** FY **2005** Project: **05-0475**

Metals Scan

Facility: Vicksburg Chemical — Vicksburg, MS
Program: RCRP — Case No: 34024
Id/Station: VCSD10D / — MD No: 32N6 — Inorg Contractor: LIBRTY
Media: SEDIMENT

Produced by: Goddard, Denise
Requestor:
Project Leader: AMASTERS
Beginning: 03/28/2005 10:45
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
6.0	MG/KG	Arsenic
100	MG/KG	Barium
0.38 UJ	MG/KG	Cadmium
9.4 J	MG/KG	Chromium
10 J	MG/KG	Lead
0.02 UJ	MG/KG	Total Mercury
0.42 UJ	MG/KG	Selenium
1.5 U	MG/KG	Silver
33	%	% Moisture

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

METALS SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/29/2005 15:28**

Sample **4533** FY **2005** Project: **05-0475**

Metals Scan

Facility: Vicksburg Chemical — Vicksburg, MS
Program: RCRP — Case No: 34024
Id/Station: VCSS01 / — MD No: 32N7 — Inorg Contractor: LIBRTY
Media: SURFACE SOIL

Produced by: Goddard, Denise
Requestor:
Project Leader: AMASTERS
Beginning: 03/28/2005 10:40
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
5.2	MG/KG	Arsenic
91	MG/KG	Barium
0.33 UJ	MG/KG	Cadmium
8.2 J	MG/KG	Chromium
9.3 J	MG/KG	Lead
0.03 UJ	MG/KG	Total Mercury
0.77 UJ	MG/KG	Selenium
1.3 U	MG/KG	Silver
25	%	% Moisture

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

METALS SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/29/2005 15:28**

Sample **4534** FY **2005** Project: **05-0475**

Metals Scan

Facility: Vicksburg Chemical — Vicksburg, MS
Program: RCRP — Case No: 34024
Id/Station: VCSS02 / — MD No: 32N8 — Inorg Contractor: LIBRTY
Media: SURFACE SOIL

Produced by: Goddard, Denise
Requestor:
Project Leader: AMASTERS
Beginning: 03/28/2005 11:10
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
5.8	MG/KG	Arsenic
120	MG/KG	Barium
0.39 UJ	MG/KG	Cadmium
10 J	MG/KG	Chromium
11 J	MG/KG	Lead
0.04 UJ	MG/KG	Total Mercury
6.4 UJ	MG/KG	Selenium
0.10 UJ	MG/KG	Silver
45	%	% Moisture

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

METALS SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/29/2005 15:28**

Sample **4535** FY **2005** Project: **05-0475**

Metals Scan

Facility: Vicksburg Chemical — Vicksburg, MS
Program: RCRP — Case No: 34024
Id/Station: VCSS03 / — MD No: 32N9 — Inorg Contractor: LIBRTY
Media: SURFACE SOIL

Produced by: Goddard, Denise
Requestor:
Project Leader: AMASTERS
Beginning: 03/28/2005 11:30
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
8.0	MG/KG	Arsenic
120	MG/KG	Barium
0.91 UJ	MG/KG	Cadmium
14 J	MG/KG	Chromium
15 J	MG/KG	Lead
0.08 UJ	MG/KG	Total Mercury
0.62 UJ	MG/KG	Selenium
2.2 U	MG/KG	Silver
55	%	% Moisture

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

METALS SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/29/2005 15:28**

Sample **4536** FY **2005** Project: **05-0475**

Metals Scan

Facility: Vicksburg Chemical — Vicksburg, MS
Program: RCRP — Case No: 34024
Id/Station: VCSS04 / — MD No: 32P0 — Inorg Contractor: LIBRTY
Media: SURFACE SOIL

Produced by: Goddard, Denise
Requestor:
Project Leader: AMASTERS
Beginning: 03/28/2005 11:55
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
7.1	MG/KG	Arsenic
130	MG/KG	Barium
0.65 UJ	MG/KG	Cadmium
12 J	MG/KG	Chromium
13 J	MG/KG	Lead
0.07 UJ	MG/KG	Total Mercury
0.76 UJ	MG/KG	Selenium
1.7 U	MG/KG	Silver
40	%	% Moisture

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

METALS SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/29/2005 15:28**

Sample **4537** FY **2005** Project: **05-0475**

Metals Scan

Facility: Vicksburg Chemical — Vicksburg, MS
Program: RCRP — Case No: 34024
Id/Station: VCSS05 / — MD No: 32P1 — Inorg Contractor: LIBRTY
Media: SURFACE SOIL

Produced by: Goddard, Denise
Requestor:
Project Leader: AMASTERS
Beginning: 03/28/2005 12:35
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
7.1	MG/KG	Arsenic
160	MG/KG	Barium
0.59 UJ	MG/KG	Cadmium
14 J	MG/KG	Chromium
13 J	MG/KG	Lead
0.07 UJ	MG/KG	Total Mercury
0.54 UJ	MG/KG	Selenium
2.2 U	MG/KG	Silver
55	%	% Moisture

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

METALS SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/29/2005 15:28**

Sample **4538** FY **2005** Project: **05-0475**

Metals Scan

Facility: Vicksburg Chemical — Vicksburg, MS
Program: RCRP — Case No: 34024
Id/Station: VCSS05D / — MD No: 32P2 — Inorg Contractor: LIBRTY
Media: SURFACE SOIL

Produced by: Goddard, Denise
Requestor:
Project Leader: AMASTERS
Beginning: 03/28/2005 12:35
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
7.7	MG/KG	Arsenic
170	MG/KG	Barium
0.62 UJ	MG/KG	Cadmium
15 J	MG/KG	Chromium
14 J	MG/KG	Lead
0.05 UJ	MG/KG	Total Mercury
0.88 UJ	MG/KG	Selenium
0.17 UJ	MG/KG	Silver
59	%	% Moisture

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

METALS SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/29/2005 15:28**

Sample **4539** FY **2005** Project: **05-0475**

Metals Scan

Facility: Vicksburg Chemical — Vicksburg, MS
Program: RCRP — Case No: 34024
Id/Station: VCSW09 / — MD No: 32P3 — Inorg Contractor: LIBRTY
Media: SURFACE WATER

Produced by: Goddard, Denise
Requestor:
Project Leader: AMASTERS
Beginning: 03/28/2005 11:45
Ending:

RESULTS	UNITS	ANALYTE
4.8 R	UG/L	Arsenic
160 J	UG/L	Barium
5.0 U	UG/L	Cadmium
0.74 UJ	UG/L	Chromium
10 U	UG/L	Lead
0.20 U	UG/L	Total Mercury
35 U	UG/L	Selenium
10 U	UG/L	Silver

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

METALS SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/29/2005 15:28**

Sample **4540** FY **2005** Project: **05-0475**

Metals Scan

Facility: Vicksburg Chemical — Vicksburg, MS
Program: RCRP — Case No: 34024
Id/Station: VCSD03 / — MD No: 32S4 — Inorg Contractor: LIBRTY
Media: SEDIMENT

Produced by: Goddard, Denise
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 12:30
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
3.6	MG/KG	Arsenic
65	MG/KG	Barium
0.30 UJ	MG/KG	Cadmium
6.6 J	MG/KG	Chromium
21 J	MG/KG	Lead
0.04 UJ	MG/KG	Total Mercury
0.29 UJ	MG/KG	Selenium
1.3 U	MG/KG	Silver
25	%	% Moisture

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

METALS SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/29/2005 15:28**

Sample **4541** FY **2005** Project: **05-0475**

Metals Scan

Facility: Vicksburg Chemical — Vicksburg, MS
Program: RCRP — Case No: 34024
Id/Station: VCSD04 / — MD No: 32S5 — Inorg Contractor: LIBRTY
Media: SEDIMENT

Produced by: Goddard, Denise
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 11:35
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
5.1	MG/KG	Arsenic
100	MG/KG	Barium
0.44 UJ	MG/KG	Cadmium
9.5 J	MG/KG	Chromium
15 J	MG/KG	Lead
0.05 UJ	MG/KG	Total Mercury
0.31 UJ	MG/KG	Selenium
0.10 UJ	MG/KG	Silver
25	%	% Moisture

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

METALS SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/29/2005 15:28**

Sample **4542** FY **2005** Project: **05-0475**

Metals Scan

Facility: Vicksburg Chemical — Vicksburg, MS
Program: RCRP — Case No: 34024
Id/Station: VCSD05 / — MD No: 32S6 — Inorg Contractor: LIBRTY
Media: SEDIMENT

Produced by: Goddard, Denise
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 09:55
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
7.0	MG/KG	Arsenic
150	MG/KG	Barium
0.48 UJ	MG/KG	Cadmium
13 J	MG/KG	Chromium
16 J	MG/KG	Lead
0.05 UJ	MG/KG	Total Mercury
0.63 UJ	MG/KG	Selenium
1.3 U	MG/KG	Silver
24	%	% Moisture

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

METALS SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/29/2005 15:28**

Sample **4543** FY **2005** Project: **05-0475**

Metals Scan

Facility: Vicksburg Chemical — Vicksburg, MS
Program: RCRP — Case No: 34024
Id/Station: VCSD06 / — MD No: 32S7 — Inorg Contractor: LIBRTY
Media: SEDIMENT

Produced by: Goddard, Denise
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 09:30
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
6.1	MG/KG	Arsenic
110	MG/KG	Barium
0.46 UJ	MG/KG	Cadmium
10 J	MG/KG	Chromium
32 J	MG/KG	Lead
0.19	MG/KG	Total Mercury
4.8 UJ	MG/KG	Selenium
1.4 U	MG/KG	Silver
28	%	% Moisture

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

METALS SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/29/2005 15:28**

Sample **4544** FY **2005** Project: **05-0475**

Metals Scan

Facility: Vicksburg Chemical — Vicksburg, MS
Program: RCRP — Case No: 34024
Id/Station: VCSD07 / — MD No: 32S8 — Inorg Contractor: LIBRTY
Media: SEDIMENT

Produced by: Goddard, Denise
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 14:35
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
5.3	MG/KG	Arsenic
93	MG/KG	Barium
0.30 UJ	MG/KG	Cadmium
8.7 J	MG/KG	Chromium
8.0 J	MG/KG	Lead
0.06 UJ	MG/KG	Total Mercury
0.29 UJ	MG/KG	Selenium
1.3 U	MG/KG	Silver
23	%	% Moisture

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

METALS SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/29/2005 15:28**

Sample **4545** FY **2005** Project: **05-0475**

Metals Scan

Facility: Vicksburg Chemical — Vicksburg, MS
Program: RCRP — Case No: 34024
Id/Station: VCSD08 /
Media: SEDIMENT — MD No: 32S9 — Inorg Contractor: LIBRTY

Produced by: Goddard, Denise
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 08:30
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
8.0	MG/KG	Arsenic
150	MG/KG	Barium
0.45 UJ	MG/KG	Cadmium
17 J	MG/KG	Chromium
12 J	MG/KG	Lead
0.14	MG/KG	Total Mercury
0.65 UJ	MG/KG	Selenium
1.3 U	MG/KG	Silver
22	%	% Moisture

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

METALS SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/29/2005 15:28**

Sample **4546** FY **2005** Project: **05-0475**

Metals Scan

Facility: Vicksburg Chemical — Vicksburg, MS
Program: RCRP — Case No: 34024
Id/Station: VCSD11 / — MD No: 32T0 — Inorg Contractor: LIBRTY
Media: SEDIMENT

Produced by: Goddard, Denise
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 11:05
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
6.4	MG/KG	Arsenic
170	MG/KG	Barium
0.40 UJ	MG/KG	Cadmium
10 J	MG/KG	Chromium
15 J	MG/KG	Lead
0.07 UJ	MG/KG	Total Mercury
0.82 UJ	MG/KG	Selenium
1.4 U	MG/KG	Silver
27	%	% Moisture

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

METALS SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/29/2005 15:28**

Sample **4547** FY **2005** Project: **05-0475**

Metals Scan

Facility: Vicksburg Chemical — Vicksburg, MS
Program: RCRP — Case No: 34024
Id/Station: MDRS01 / — MD No: RS01 — Inorg Contractor: LIBRTY
Media: WATER

Produced by: Goddard, Denise
Requestor:
Project Leader: AMASTERS
Beginning: 03/30/2005
Ending:

RESULTS	UNITS	ANALYTE
10 U	UG/L	Arsenic
200 U	UG/L	Barium
5.0 U	UG/L	Cadmium
10 U	UG/L	Chromium
10 U	UG/L	Lead
0.20 U	UG/L	Total Mercury
35 U	UG/L	Selenium
10 U	UG/L	Silver

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

METALS SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/29/2005 15:28**

Sample **4548** FY **2005** Project: **05-0475**

Metals Scan

Facility: Vicksburg Chemical — Vicksburg, MS
Program: RCRP — Case No: 34024
Id/Station: VCMW10C / — MD No: 32R3 — Inorg Contractor: LIBRTY
Media: GROUNDWATER

Produced by: Goddard, Denise
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 17:15
Ending:

RESULTS	UNITS	ANALYTE
10 U	UG/L	Arsenic
120 J	UG/L	Barium
5.0 U	UG/L	Cadmium
1.2 UJ	UG/L	Chromium
10 U	UG/L	Lead
0.20 U	UG/L	Total Mercury
35 U	UG/L	Selenium
10 U	UG/L	Silver

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

METALS SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/29/2005 15:28**

Sample **4549** FY **2005** Project: **05-0475**

Metals Scan

Facility: Vicksburg Chemical — Vicksburg, MS
Program: RCRP — Case No: 34024
Id/Station: VCMW12C / — MD No: 32R4 — Inorg Contractor: LIBRTY
Media: GROUNDWATER

Produced by: Goddard, Denise
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 17:30
Ending:

RESULTS	UNITS	ANALYTE
2.5 R	UG/L	Arsenic
110 J	UG/L	Barium
5.0 U	UG/L	Cadmium
10 U	UG/L	Chromium
10 U	UG/L	Lead
0.20 U	UG/L	Total Mercury
3.2 UJ	UG/L	Selenium
10 U	UG/L	Silver

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

METALS SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/29/2005 15:28**

Sample **4550** FY **2005** Project: **05-0475**

Metals Scan

Facility: Vicksburg Chemical — Vicksburg, MS
Program: RCRP — Case No: 34024
Id/Station: VCMW17A / — MD No: 32R5 — Inorg Contractor: LIBRTY
Media: GROUNDWATER

Produced by: Goddard, Denise
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 18:50
Ending:

RESULTS	UNITS	ANALYTE
10 U	UG/L	Arsenic
140 J	UG/L	Barium
5.0 U	UG/L	Cadmium
0.62 UJ	UG/L	Chromium
10 U	UG/L	Lead
0.20 U	UG/L	Total Mercury
35 U	UG/L	Selenium
10 U	UG/L	Silver

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

METALS SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/29/2005 15:28**

Sample **4551** FY **2005** Project: **05-0475**

Metals Scan

Facility: Vicksburg Chemical — Vicksburg, MS
Program: RCRP — Case No: 34024
Id/Station: VCMW18A / — MD No: 32R6 — Inorg Contractor: LIBRTY
Media: GROUNDWATER

Produced by: Goddard, Denise
Requestor:
Project Leader: AMASTERS
Beginning: 03/30/2005 08:55
Ending:

RESULTS	UNITS	ANALYTE
170	UG/L	Arsenic
720	UG/L	Barium
5.0 U	UG/L	Cadmium
0.90 UJ	UG/L	Chromium
10 U	UG/L	Lead
0.20 U	UG/L	Total Mercury
35 U	UG/L	Selenium
10 U	UG/L	Silver

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

METALS SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/29/2005 15:28**

Sample **4552** FY **2005** Project: **05-0475**

Metals Scan

Facility: Vicksburg Chemical — Vicksburg, MS
Program: RCRP — Case No: 34024
Id/Station: VCMW4 / — MD No: 32R7 — Inorg Contractor: LIBRTY
Media: GROUNDWATER

Produced by: Goddard, Denise
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 14:45
Ending:

RESULTS	UNITS	ANALYTE
10 U	UG/L	Arsenic
190 J	UG/L	Barium
5.0 U	UG/L	Cadmium
10 U	UG/L	Chromium
10 U	UG/L	Lead
0.20 U	UG/L	Total Mercury
2.1 UJ	UG/L	Selenium
10 U	UG/L	Silver

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

METALS SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/29/2005 15:28**

Sample **4553** FY **2005** Project: **05-0475**

Metals Scan

Facility: Vicksburg Chemical — Vicksburg, MS
Program: RCRP — Case No: 34024
Id/Station: VCSW01 / — MD No: 32R8 — Inorg Contractor: LIBRTY
Media: SURFACE WATER

Produced by: Goddard, Denise
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 13:40
Ending:

RESULTS	UNITS	ANALYTE
4.3 R	UG/L	Arsenic
200 J	UG/L	Barium
5.0 U	UG/L	Cadmium
10 U	UG/L	Chromium
2.8 UJ	UG/L	Lead
0.20 U	UG/L	Total Mercury
2.2 UJ	UG/L	Selenium
10 U	UG/L	Silver

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

METALS SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/29/2005 15:28**

Sample **4554** FY **2005** Project: **05-0475**

Metals Scan

Facility: Vicksburg Chemical — Vicksburg, MS
Program: RCRP — Case No: 34024
Id/Station: VCSW04 / — MD No: 32R9 — Inorg Contractor: LIBRTY
Media: SURFACE WATER

Produced by: Goddard, Denise
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 11:35
Ending:

RESULTS	UNITS	ANALYTE
2.8 R	UG/L	Arsenic
190 J	UG/L	Barium
5.0 U	UG/L	Cadmium
10 U	UG/L	Chromium
10 U	UG/L	Lead
0.20 U	UG/L	Total Mercury
35 U	UG/L	Selenium
10 U	UG/L	Silver

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

METALS SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/29/2005 15:28**

Sample **4555** FY **2005** Project: **05-0475**

Metals Scan

Facility: Vicksburg Chemical — Vicksburg, MS
Program: RCRP — Case No: 34024
Id/Station: VCSW07 / — MD No: 32S0 — Inorg Contractor: LIBRTY
Media: SURFACE WATER

Produced by: Goddard, Denise
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 14:35
Ending:

RESULTS	UNITS	ANALYTE
10 U	UG/L	Arsenic
170 J	UG/L	Barium
5.0 U	UG/L	Cadmium
10 U	UG/L	Chromium
10 U	UG/L	Lead
0.20 U	UG/L	Total Mercury
35 U	UG/L	Selenium
10 U	UG/L	Silver

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

METALS SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/29/2005 15:28**

Sample **4556** FY **2005** Project: **05-0475**

Metals Scan

Facility: Vicksburg Chemical — Vicksburg, MS
Program: RCRP — Case No: 34024
Id/Station: VCSW08 / — MD No: 32S1 — Inorg Contractor: LIBRTY
Media: SURFACE WATER

Produced by: Goddard, Denise
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 08:30
Ending:

RESULTS	UNITS	ANALYTE
3.8 R	UG/L	Arsenic
200 J	UG/L	Barium
5.0 U	UG/L	Cadmium
10 U	UG/L	Chromium
10 U	UG/L	Lead
0.20 U	UG/L	Total Mercury
35 U	UG/L	Selenium
10 U	UG/L	Silver

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

METALS SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/29/2005 15:28**

Sample **4557** FY **2005** Project: **05-0475**

Metals Scan

Facility: Vicksburg Chemical — Vicksburg, MS
Program: RCRP — Case No: 34024
Id/Station: VCSD01 / — MD No: 32S2 — Inorg Contractor: LIBRTY
Media: SEDIMENT

Produced by: Goddard, Denise
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 13:40
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
6.5	MG/KG	Arsenic
130	MG/KG	Barium
0.50 UJ	MG/KG	Cadmium
12 J	MG/KG	Chromium
31 J	MG/KG	Lead
0.05 UJ	MG/KG	Total Mercury
0.46 UJ	MG/KG	Selenium
0.09 UJ	MG/KG	Silver
28	%	% Moisture

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

METALS SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/29/2005 15:28**

Sample **4558** FY **2005** Project: **05-0475**

Metals Scan

Facility: Vicksburg Chemical — Vicksburg, MS
Program: RCRP — Case No: 34024
Id/Station: VCSD02 / — MD No: 32S3 — Inorg Contractor: LIBRTY
Media: SEDIMENT

Produced by: Goddard, Denise
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 12:55
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
6.0	MG/KG	Arsenic
110	MG/KG	Barium
0.42 UJ	MG/KG	Cadmium
10 J	MG/KG	Chromium
9.1 J	MG/KG	Lead
0.03 UJ	MG/KG	Total Mercury
0.39 UJ	MG/KG	Selenium
0.24 UJ	MG/KG	Silver
24	%	% Moisture

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

METALS SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/29/2005 15:28**

Sample **4559** FY **2005** Project: **05-0475**

Metals Scan

Facility: Vicksburg Chemical — Vicksburg, MS
Program: RCRP — Case No: 34024
Id/Station: VCMW2 / — MD No: 32T1 — Inorg Contractor: LIBRTY
Media: GROUNDWATER

Produced by: Goddard, Denise
Requestor:
Project Leader: AMASTERS
Beginning: 03/30/2005 13:50
Ending:

RESULTS	UNITS	ANALYTE
10 U	UG/L	Arsenic
270	UG/L	Barium
5.0 U	UG/L	Cadmium
1.4 UJ	UG/L	Chromium
10 U	UG/L	Lead
0.20 U	UG/L	Total Mercury
2.3 UJ	UG/L	Selenium
10 U	UG/L	Silver

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

METALS SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/29/2005 15:28**

Sample **4560** FY **2005** Project: **05-0475**

Metals Scan

Facility: Vicksburg Chemical
Program: RCRP
Id/Station: VCMW8 /
Media: GROUNDWATER

Vicksburg, MS
Case No: 34024
MD No: 32T2
Inorg Contractor: LIBRTY

Produced by: Goddard, Denise
Requestor:
Project Leader: AMASTERS
Beginning: 03/30/2005 14:45
Ending:

RESULTS	UNITS	ANALYTE
22	UG/L	Arsenic
71 J	UG/L	Barium
5.0 U	UG/L	Cadmium
7.3 UJ	UG/L	Chromium
2.5 R	UG/L	Lead
0.20 U	UG/L	Total Mercury
35 U	UG/L	Selenium
10 U	UG/L	Silver

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

METALS SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/29/2005 15:28**

Sample **4561** FY **2005** Project: **05-0475**

Metals Scan

Facility: Vicksburg Chemical
Program: RCRP
Id/Station: VCMW1C /
Media: GROUNDWATER

Vicksburg, MS
Case No: 34024
MD No: 32T3
Inorg Contractor: LIBRTY

Produced by: Goddard, Denise
Requestor:
Project Leader: AMASTERS
Beginning: 03/31/2005 10:35
Ending:

RESULTS	UNITS	ANALYTE
10 U	UG/L	Arsenic
430	UG/L	Barium
1.4 UJ	UG/L	Cadmium
33	UG/L	Chromium
10 U	UG/L	Lead
0.20 U	UG/L	Total Mercury
3.3 UJ	UG/L	Selenium
10 U	UG/L	Silver

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

METALS SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/29/2005 15:28**

Sample **4562** FY **2005** Project: **05-0475**

Metals Scan

Facility: Vicksburg Chemical — Vicksburg, MS
Program: RCRP — Case No: 34024
Id/Station: VCMW7 / — MD No: 32T4 — Inorg Contractor: LIBRTY
Media: GROUNDWATER

Produced by: Goddard, Denise
Requestor:
Project Leader: AMASTERS
Beginning: 03/31/2005 13:55
Ending:

RESULTS	UNITS	ANALYTE
26	UG/L	Arsenic
330	UG/L	Barium
5.0 U	UG/L	Cadmium
10 U	UG/L	Chromium
10 U	UG/L	Lead
0.20 U	UG/L	Total Mercury
2.6 UJ	UG/L	Selenium
10 U	UG/L	Silver

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

METALS SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/29/2005 15:28**

Sample **4563** FY **2005** Project: **05-0475**

Metals Scan

Facility: Vicksburg Chemical — Vicksburg, MS
Program: RCRP — Case No: 34024
Id/Station: VCMW13 / — MD No: 32T5 — Inorg Contractor: LIBRTY
Media: GROUNDWATER

Produced by: Goddard, Denise
Requestor:
Project Leader: AMASTERS
Beginning: 03/30/2005 14:50
Ending:

RESULTS	UNITS	ANALYTE
5.4 R	UG/L	Arsenic
6500	UG/L	Barium
5.0 U	UG/L	Cadmium
10 U	UG/L	Chromium
10 U	UG/L	Lead
0.20 U	UG/L	Total Mercury
2.6 UJ	UG/L	Selenium
10 U	UG/L	Silver

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

METALS SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/29/2005 15:28**

Sample **4564** FY **2005** Project: **05-0475**

Metals Scan

Facility: Vicksburg Chemical — Vicksburg, MS
Program: RCRP — Case No: 34024
Id/Station: VCMW9 / — MD No: 32T6 — Inorg Contractor: LIBRTY
Media: GROUNDWATER

Produced by: Goddard, Denise
Requestor:
Project Leader: AMASTERS
Beginning: 03/30/2005 13:07
Ending:

RESULTS	UNITS	ANALYTE
10 U	UG/L	Arsenic
97 J	UG/L	Barium
5.0 U	UG/L	Cadmium
10 U	UG/L	Chromium
10 U	UG/L	Lead
0.20 U	UG/L	Total Mercury
2.8 UJ	UG/L	Selenium
10 U	UG/L	Silver

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

METALS SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/29/2005 15:28**

Sample **4565** FY **2005** Project: **05-0475**

Metals Scan

Facility: Vicksburg Chemical — Vicksburg, MS
Program: RCRP — Case No: 34024
Id/Station: VCMW6 / — MD No: 32T7 — Inorg Contractor: LIBRTY
Media: GROUNDWATER

Produced by: Goddard, Denise
Requestor:
Project Leader: AMASTERS
Beginning: 03/30/2005 15:50
Ending:

RESULTS	UNITS	ANALYTE
10 U	UG/L	Arsenic
210	UG/L	Barium
5.0 U	UG/L	Cadmium
0.69 UJ	UG/L	Chromium
10 U	UG/L	Lead
0.20 U	UG/L	Total Mercury
3.1 UJ	UG/L	Selenium
10 U	UG/L	Silver

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

METALS SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/29/2005 15:28**

Sample **4566** FY **2005** Project: **05-0475**

Metals Scan

Facility: Vicksburg Chemical — Vicksburg, MS
Program: RCRP — Case No: 34024
Id/Station: VCMW11 / — MD No: 32T8 — Inorg Contractor: LIBRTY
Media: GROUNDWATER

Produced by: Goddard, Denise
Requestor:
Project Leader: AMASTERS
Beginning: 03/31/2005 16:45
Ending:

RESULTS	UNITS	ANALYTE
10 U	UG/L	Arsenic
600	UG/L	Barium
5.0 U	UG/L	Cadmium
10 U	UG/L	Chromium
10 U	UG/L	Lead
0.20 U	UG/L	Total Mercury
4.7 UJ	UG/L	Selenium
10 U	UG/L	Silver

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

METALS SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/29/2005 15:28**

Sample **4567** FY **2005** Project: **05-0475**

Metals Scan

Facility: Vicksburg Chemical — Vicksburg, MS
Program: RCRP — Case No: 34024
Id/Station: VCPZ25B / — MD No: 32T9 — Inorg Contractor: LIBRTY
Media: GROUNDWATER

Produced by: Goddard, Denise
Requestor:
Project Leader: AMASTERS
Beginning: 03/31/2005 15:45
Ending:

RESULTS	UNITS	ANALYTE
3.0 R	UG/L	Arsenic
100 J	UG/L	Barium
5.0 U	UG/L	Cadmium
12	UG/L	Chromium
4.1 R	UG/L	Lead
0.20 U	UG/L	Total Mercury
2.0 UJ	UG/L	Selenium
10 U	UG/L	Silver

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

METALS SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/29/2005 15:28**

Sample **4568** FY **2005** Project: **05-0475**

Metals Scan

Facility: Vicksburg Chemical — Vicksburg, MS
Program: RCRP — Case No: 34024
Id/Station: VCPZ22B / — MD No: 32W0 — Inorg Contractor: LIBRTY
Media: GROUNDWATER

Produced by: Goddard, Denise
Requestor:
Project Leader: AMASTERS
Beginning: 03/31/2005 16:10
Ending:

RESULTS	UNITS	ANALYTE
10 U	UG/L	Arsenic
120 J	UG/L	Barium
5.0 U	UG/L	Cadmium
2.1 UJ	UG/L	Chromium
2.3 R	UG/L	Lead
0.07 UJ	UG/L	Total Mercury
32 UJ	UG/L	Selenium
1.5 UJ	UG/L	Silver

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

METALS SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/29/2005 15:28**

Sample **4569** FY **2005** Project: **05-0475**

Metals Scan

Facility: Vicksburg Chemical — Vicksburg, MS
Program: RCRP — Case No: 34024
Id/Station: VCMW16 / — MD No: 32W1 — Inorg Contractor: LIBRTY
Media: GROUNDWATER

Produced by: Goddard, Denise
Requestor:
Project Leader: AMASTERS
Beginning: 03/31/2005 11:45
Ending:

RESULTS	UNITS	ANALYTE
5.5 J	UG/L	Arsenic
440	UG/L	Barium
5.0 U	UG/L	Cadmium
10 U	UG/L	Chromium
10 U	UG/L	Lead
0.20 U	UG/L	Total Mercury
35 U	UG/L	Selenium
10 U	UG/L	Silver

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

METALS SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/29/2005 15:28**

Sample **4570** FY **2005** Project: **05-0475**

Metals Scan

Facility: Vicksburg Chemical — Vicksburg, MS
Program: RCRP — Case No: 34024
Id/Station: VCPZ26A / — MD No: 32W2 — Inorg Contractor: LIBRTY
Media: GROUNDWATER

Produced by: Goddard, Denise
Requestor:
Project Leader: AMASTERS
Beginning: 04/02/2005 08:40
Ending:

RESULTS	UNITS	ANALYTE
10 U	UG/L	Arsenic
130 J	UG/L	Barium
5.0 U	UG/L	Cadmium
10 U	UG/L	Chromium
10 U	UG/L	Lead
0.20 U	UG/L	Total Mercury
2.0 UJ	UG/L	Selenium
10 U	UG/L	Silver

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

METALS SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/29/2005 15:28**

Sample **4571** FY **2005** Project: **05-0475**

Metals Scan

Facility: Vicksburg Chemical
Program: RCRP
Id/Station: VCPZ21A /
Media: GROUNDWATER

Vicksburg, MS
Case No: 34024
MD No: 32W3
Inorg Contractor: LIBRTY

Produced by: Goddard, Denise
Requestor:
Project Leader: AMASTERS
Beginning: 04/01/2005 14:50
Ending:

RESULTS	UNITS	ANALYTE
10 U	UG/L	Arsenic
390	UG/L	Barium
5.0 U	UG/L	Cadmium
10 U	UG/L	Chromium
0.59 UJ	UG/L	Lead
0.20 U	UG/L	Total Mercury
35 U	UG/L	Selenium
10 U	UG/L	Silver

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

METALS SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/29/2005 15:28**

Sample **4572** FY **2005** Project: **05-0475**

Metals Scan

Facility: Vicksburg Chemical — Vicksburg, MS
Program: RCRP — Case No: 34024
Id/Station: VCPB01 / — MD No: 32W4 — Inorg Contractor: LIBRTY
Media: FIELD QC

Produced by: Goddard, Denise
Requestor:
Project Leader: AMASTERS
Beginning: 04/02/2005 10:00
Ending:

RESULTS	UNITS	ANALYTE
10 U	UG/L	Arsenic
0.19 UJ	UG/L	Barium
5.0 U	UG/L	Cadmium
10 U	UG/L	Chromium
1.3 UJ	UG/L	Lead
0.20 U	UG/L	Total Mercury
35 U	UG/L	Selenium
10 U	UG/L	Silver

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

METALS SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/29/2005 15:28**

Sample **4573** FY **2005** Project: **05-0475**

Metals Scan

Facility: Vicksburg Chemical — Vicksburg, MS
Program: RCRP — Case No: 34024
Id/Station: VCMW14 / — MD No: 32W5 — Inorg Contractor: LIBRTY
Media: GROUNDWATER

Produced by: Goddard, Denise
Requestor:
Project Leader: AMASTERS
Beginning: 03/31/2005 12:10
Ending:

RESULTS	UNITS	ANALYTE
10 U	UG/L	Arsenic
500	UG/L	Barium
5.0 U	UG/L	Cadmium
2.3 UJ	UG/L	Chromium
0.75 UJ	UG/L	Lead
0.20 U	UG/L	Total Mercury
35 U	UG/L	Selenium
10 U	UG/L	Silver

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

METALS SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 04/29/2005 15:28**

Sample **4574** FY **2005** Project: **05-0475**

Metals Scan

Facility: Vicksburg Chemical — Vicksburg, MS
Program: RCRP — Case No: 34024
Id/Station: VCRB01 / — MD No: 32W6 — Inorg Contractor: LIBRTY
Media: EQUIPMENT RINSE BLANK

Produced by: Goddard, Denise
Requestor:
Project Leader: AMASTERS
Beginning: 04/02/2005 09:45
Ending:

RESULTS	UNITS	ANALYTE
10 U	UG/L	Arsenic
0.17 UJ	UG/L	Barium
5.0 U	UG/L	Cadmium
10 U	UG/L	Chromium
0.71 UJ	UG/L	Lead
0.20 U	UG/L	Total Mercury
35 U	UG/L	Selenium
10 U	UG/L	Silver

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.

PESTICIDES/PCB SAMPLE ANALYSIS **EPA - REGION IV SESD, ATHENS, GA** **Production Date: 05/10/2005 16:57**

Sample **3654** FY **2005** Project: **05-0474**

Pesticides Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SD-10 /
Media: SEDIMENT

Produced by: Revells, Lavon
Requestor:
Project Leader: AMASTERS
Beginning: 03/28/2005 10:45
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
5.7 U	UG/KG	Aldrin
5.7 U	UG/KG	Heptachlor
5.7 U	UG/KG	Heptachlor Epoxide
5.7 U	UG/KG	alpha-BHC
5.7 U	UG/KG	beta-BHC
5.7 UJ	UG/KG	gamma-BHC (Lindane)
7.5 U	UG/KG	delta-BHC
5.7 U	UG/KG	Endosulfan I (alpha)
5.8 U	UG/KG	Dieldrin
14 U	UG/KG	4,4'-DDT (p,p'-DDT)
7.2 U	UG/KG	4,4'-DDE (p,p'-DDE)
14 U	UG/KG	4,4'-DDD (p,p'-DDD)
14 U	UG/KG	Endrin
14 U	UG/KG	Endosulfan II (beta)
14 U	UG/KG	Endosulfan Sulfate
580 U	UG/KG	Toxaphene
5.7 U	UG/KG	Chlordene /2
6.4 U	UG/KG	gamma-Chlordane /2
5.7 U	UG/KG	trans-Nonachlor /2
5.7 U	UG/KG	alpha-Chlordane /2
5.7 U	UG/KG	cis-Nonachlor /2
28 U	UG/KG	Methoxychlor
16 U	UG/KG	Endrin Ketone
30	%	% Moisture

QC Limits Exceeded for Lindane

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS **EPA - REGION IV SESD, ATHENS, GA** **Production Date: 06/03/2005 16:21**

Sample **3654** FY **2005** Project: **05-0474**

SPECIFIED TESTS

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SD-10 /
Media: SEDIMENT

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/28/2005 10:45
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
10 U	UG/KG	Atrazine
10 U	UG/KG	Cyanazine
10 UJ	UG/KG	Dinoseb (DNBP)

Recommended Holding Time Exceeded:
Results Estimated-QC Limits Exceeded

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 05/10/2005 16:57**

Sample **3655** FY **2005** Project: **05-0474**

Pesticides Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SD-09 /
Media: SEDIMENT

Produced by: Revells, Lavon
Requestor:
Project Leader: AMASTERS
Beginning: 03/28/2005 11:45
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
5.0 U	UG/KG	Aldrin
5.0 U	UG/KG	Heptachlor
5.0 U	UG/KG	Heptachlor Epoxide
5.0 U	UG/KG	alpha-BHC
5.0 U	UG/KG	beta-BHC
5.0 UJ	UG/KG	gamma-BHC (Lindane)
6.6 U	UG/KG	delta-BHC
5.0 U	UG/KG	Endosulfan I (alpha)
5.0 U	UG/KG	Dieldrin
15 U	UG/KG	4,4'-DDT (p,p'-DDT)
5.8 U	UG/KG	4,4'-DDE (p,p'-DDE)
12 U	UG/KG	4,4'-DDD (p,p'-DDD)
12 U	UG/KG	Endrin
12 U	UG/KG	Endosulfan II (beta)
12 U	UG/KG	Endosulfan Sulfate
520 U	UG/KG	Toxaphene
5.0 U	UG/KG	Chlordene /2
5.8 U	UG/KG	gamma-Chlordane /2
5.0 U	UG/KG	trans-Nonachlor /2
5.8 U	UG/KG	alpha-Chlordane /2
5.0 U	UG/KG	cis-Nonachlor /2
25 U	UG/KG	Methoxychlor
15 U	UG/KG	Endrin Ketone
21	%	% Moisture

Results Estimated-QC Limits Exceeded

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS **EPA - REGION IV SESD, ATHENS, GA** **Production Date: 06/03/2005 16:21**

Sample **3655** FY **2005** Project: **05-0474**

SPECIFIED TESTS

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SD-09 /
Media: SEDIMENT

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/28/2005 11:45
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
10 U	UG/KG	Atrazine
10 U	UG/KG	Cyanazine
10 UJ	UG/KG	Dinoseb (DNBP)

Recommended Holding Time Exceeded:
Results Estimated-QC Limits Exceeded

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 05/10/2005 16:57**

Sample **3656** FY **2005** Project: **05-0474**

Pesticides Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SD10D /
Media: SEDIMENT

Produced by: Revells, Lavon
Requestor:
Project Leader: AMASTERS
Beginning: 03/28/2005 10:45
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
5.5 U	UG/KG	Aldrin
5.5 U	UG/KG	Heptachlor
5.5 U	UG/KG	Heptachlor Epoxide
5.5 U	UG/KG	alpha-BHC
5.5 U	UG/KG	beta-BHC
5.5 UJ	UG/KG	gamma-BHC (Lindane)
8.2 U	UG/KG	delta-BHC
5.5 U	UG/KG	Endosulfan I (alpha)
6.1 U	UG/KG	Dieldrin
15 U	UG/KG	4,4'-DDT (p,p'-DDT)
6.7 U	UG/KG	4,4'-DDE (p,p'-DDE)
14 U	UG/KG	4,4'-DDD (p,p'-DDD)
14 U	UG/KG	Endrin
14 U	UG/KG	Endosulfan II (beta)
14 U	UG/KG	Endosulfan Sulfate
570 U	UG/KG	Toxaphene
5.5 U	UG/KG	Chlordene /2
6.0 U	UG/KG	gamma-Chlordane /2
5.5 U	UG/KG	trans-Nonachlor /2
5.9 U	UG/KG	alpha-Chlordane /2
5.5 U	UG/KG	cis-Nonachlor /2
28 U	UG/KG	Methoxychlor
14 U	UG/KG	Endrin Ketone
29	%	% Moisture

Results Estimated-QC Limits Exceeded

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS **EPA - REGION IV SESD, ATHENS, GA** **Production Date: 06/03/2005 16:21**

Sample **3656** FY **2005** Project: **05-0474**

SPECIFIED TESTS

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SD10D /
Media: SEDIMENT

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/28/2005 10:45
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
10 U	UG/KG	Atrazine
10 U	UG/KG	Cyanazine
10 UJ	UG/KG	Dinoseb (DNBP)

Recommended Holding Time Exceeded:
Results Estimated-QC Limits Exceeded

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 05/10/2005 16:57**

Sample **3657** FY **2005** Project: **05-0474**

Pesticides Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SS-01 /
Media: SURFACE SOIL

Produced by: Revells, Lavon
Requestor:
Project Leader: AMASTERS
Beginning: 03/28/2005 10:40
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
5.4 U	UG/KG	Aldrin
5.4 U	UG/KG	Heptachlor
5.4 U	UG/KG	Heptachlor Epoxide
5.4 U	UG/KG	alpha-BHC
5.4 U	UG/KG	beta-BHC
5.4 UJ	UG/KG	gamma-BHC (Lindane)
7.1 U	UG/KG	delta-BHC
5.4 U	UG/KG	Endosulfan I (alpha)
5.4 U	UG/KG	Dieldrin
17 U	UG/KG	4,4'-DDT (p,p'-DDT)
7.2 U	UG/KG	4,4'-DDE (p,p'-DDE)
14 U	UG/KG	4,4'-DDD (p,p'-DDD)
14 U	UG/KG	Endrin
14 U	UG/KG	Endosulfan II (beta)
14 U	UG/KG	Endosulfan Sulfate
900 U	UG/KG	Toxaphene
5.4 U	UG/KG	Chlordene /2
6.6 U	UG/KG	gamma-Chlordane /2
6.5 U	UG/KG	trans-Nonachlor /2
5.4 U	UG/KG	alpha-Chlordane /2
5.4 U	UG/KG	cis-Nonachlor /2
27 U	UG/KG	Methoxychlor
14 U	UG/KG	Endrin Ketone
27	%	% Moisture

Results Estimated-QC Limits Exceeded

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 06/03/2005 16:21**

Sample **3657** FY **2005** Project: **05-0474**

SPECIFIED TESTS

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SS-01 /
Media: SURFACE SOIL

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/28/2005 10:40
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
10 U	UG/KG	Atrazine
10 U	UG/KG	Cyanazine
10 UJ	UG/KG	Dinoseb (DNBP)

Recommended Holding Time Exceeded:
Results Estimated-QC Limits Exceeded

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 05/10/2005 16:57**

Sample **3658** FY **2005** Project: **05-0474**

Pesticides Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SS-02 /
Media: SURFACE SOIL

Produced by: Revells, Lavon
Requestor:
Project Leader: AMASTERS
Beginning: 03/28/2005 11:10
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
6.8 U	UG/KG	Aldrin
6.8 U	UG/KG	Heptachlor
6.8 U	UG/KG	Heptachlor Epoxide
6.8 U	UG/KG	alpha-BHC
9.8 U	UG/KG	beta-BHC
6.8 UJ	UG/KG	gamma-BHC (Lindane)
14 U	UG/KG	delta-BHC
14 U	UG/KG	Endosulfan I (alpha)
6.8 U	UG/KG	Dieldrin
17 U	UG/KG	4,4'-DDT (p,p'-DDT)
6.8 U	UG/KG	4,4'-DDE (p,p'-DDE)
17 U	UG/KG	4,4'-DDD (p,p'-DDD)
30 U	UG/KG	Endrin
32 U	UG/KG	Endosulfan II (beta)
17 U	UG/KG	Endosulfan Sulfate
2200 JN	UG/KG	Toxaphene
6.8 U	UG/KG	Chlordene /2
6.8 U	UG/KG	gamma-Chlordane /2
12 U	UG/KG	trans-Nonachlor /2
6.8 U	UG/KG	alpha-Chlordane /2
6.8 U	UG/KG	cis-Nonachlor /2
34 U	UG/KG	Methoxychlor
17 U	UG/KG	Endrin Ketone
42	%	% Moisture

Results Estimated-QC Limits Exceeded

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 06/03/2005 16:21**

Sample **3658** FY **2005** Project: **05-0474**

SPECIFIED TESTS

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SS-02 /
Media: SURFACE SOIL

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/28/2005 11:10
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
10 U	UG/KG	Atrazine
10 U	UG/KG	Cyanazine
10 UJ	UG/KG	Dinoseb (DNBP)

Recommended Holding Time Exceeded:
Results Estimated-QC Limits Exceeded

DCAA surrogate addition suspect

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 05/10/2005 16:57**

Sample **3659** FY **2005** Project: **05-0474**

Pesticides Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SS-03 /
Media: SURFACE SOIL

Produced by: Revells, Lavon
Requestor:
Project Leader: AMASTERS
Beginning: 03/28/2005 11:30
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
8.8 U	UG/KG	Aldrin
8.8 U	UG/KG	Heptachlor
9.2 U	UG/KG	Heptachlor Epoxide
8.8 U	UG/KG	alpha-BHC
8.8 U	UG/KG	beta-BHC
9.5 UJ	UG/KG	gamma-BHC (Lindane)
8.8 U	UG/KG	delta-BHC
15 U	UG/KG	Endosulfan I (alpha)
8.8 U	UG/KG	Dieldrin
22 U	UG/KG	4,4'-DDT (p,p'-DDT)
8.8 U	UG/KG	4,4'-DDE (p,p'-DDE)
22 U	UG/KG	4,4'-DDD (p,p'-DDD)
31 U	UG/KG	Endrin
38 U	UG/KG	Endosulfan II (beta)
22 U	UG/KG	Endosulfan Sulfate
2100 JN	UG/KG	Toxaphene
8.8 U	UG/KG	Chlordene /2
8.8 U	UG/KG	gamma-Chlordane /2
12 U	UG/KG	trans-Nonachlor /2
12 U	UG/KG	alpha-Chlordane /2
8.8 U	UG/KG	cis-Nonachlor /2
44 U	UG/KG	Methoxychlor
22 U	UG/KG	Endrin Ketone
55	%	% Moisture

Results Estimated-QC Limits Exceeded

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS **EPA - REGION IV SESD, ATHENS, GA** **Production Date: 06/03/2005 16:21**

Sample **3659** FY **2005** Project: **05-0474**

SPECIFIED TESTS

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SS-03 /
Media: SURFACE SOIL

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/28/2005 11:30
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
6.2 J	UG/KG	Atrazine
10 U	UG/KG	Cyanazine
2.1 JN	UG/KG	Dinoseb (DNBP)

Recommended Holding Time Exceeded: dinoseb
Results Estimated-QC Limits Exceeded: dinoseb

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 05/10/2005 16:57**

Sample **3660** FY **2005** Project: **05-0474**

Pesticides Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SS-04 /
Media: SURFACE SOIL

Produced by: Revells, Lavon
Requestor:
Project Leader: AMASTERS
Beginning: 03/28/2005 11:55
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
6.0 U	UG/KG	Aldrin
6.0 U	UG/KG	Heptachlor
6.0 U	UG/KG	Heptachlor Epoxide
6.0 U	UG/KG	alpha-BHC
6.7 U	UG/KG	beta-BHC
6.0 UJ	UG/KG	gamma-BHC (Lindane)
7.7 U	UG/KG	delta-BHC
6.0 U	UG/KG	Endosulfan I (alpha)
6.0 U	UG/KG	Dieldrin
15 U	UG/KG	4,4'-DDT (p,p'-DDT)
6.0 U	UG/KG	4,4'-DDE (p,p'-DDE)
15 U	UG/KG	4,4'-DDD (p,p'-DDD)
22 U	UG/KG	Endrin
22 U	UG/KG	Endosulfan II (beta)
15 U	UG/KG	Endosulfan Sulfate
1200 JN	UG/KG	Toxaphene
6.0 U	UG/KG	Chlordene /2
6.0 U	UG/KG	gamma-Chlordane /2
6.6 U	UG/KG	trans-Nonachlor /2
6.0 U	UG/KG	alpha-Chlordane /2
6.0 U	UG/KG	cis-Nonachlor /2
30 U	UG/KG	Methoxychlor
15 U	UG/KG	Endrin Ketone
35	%	% Moisture

Results Estimated-QC Limits Exceeded

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS **EPA - REGION IV SESD, ATHENS, GA** **Production Date: 06/03/2005 16:21**

Sample **3660** FY **2005** Project: **05-0474**

SPECIFIED TESTS

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SS-04 /
Media: SURFACE SOIL

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/28/2005 11:55
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
10 U	UG/KG	Atrazine
10 U	UG/KG	Cyanazine
10 UJ	UG/KG	Dinoseb (DNBP)

Recommended Holding Time Exceeded:
Results Estimated-QC Limits Exceeded

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 05/10/2005 16:57**

Sample **3661** FY **2005** Project: **05-0474**

Pesticides Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SS-05 /
Media: SURFACE SOIL

Produced by: Revells, Lavon
Requestor:
Project Leader: AMASTERS
Beginning: 03/28/2005 12:35
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
8.7 U	UG/KG	Aldrin
8.7 U	UG/KG	Heptachlor
14 U	UG/KG	Heptachlor Epoxide
8.7 U	UG/KG	alpha-BHC
28 U	UG/KG	beta-BHC
8.7 UJ	UG/KG	gamma-BHC (Lindane)
38 U	UG/KG	delta-BHC
19 U	UG/KG	Endosulfan I (alpha)
8.7 U	UG/KG	Dieldrin
22 U	UG/KG	4,4'-DDT (p,p'-DDT)
8.7 U	UG/KG	4,4'-DDE (p,p'-DDE)
22 U	UG/KG	4,4'-DDD (p,p'-DDD)
28 U	UG/KG	Endrin
37 U	UG/KG	Endosulfan II (beta)
22 U	UG/KG	Endosulfan Sulfate
3000 JN	UG/KG	Toxaphene
8.7 U	UG/KG	Chlordene /2
8.7 U	UG/KG	gamma-Chlordane /2
26 U	UG/KG	trans-Nonachlor /2
26 U	UG/KG	alpha-Chlordane /2
8.7 U	UG/KG	cis-Nonachlor /2
43 U	UG/KG	Methoxychlor
22 U	UG/KG	Endrin Ketone
55	%	% Moisture

Results Estimated-QC Limits Exceeded

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 06/03/2005 16:21**

Sample **3661** FY **2005** Project: **05-0474**

SPECIFIED TESTS

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SS-05 /
Media: SURFACE SOIL

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/28/2005 12:35
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
10 U	UG/KG	Atrazine
10 U	UG/KG	Cyanazine
3.8 JN	UG/KG	Dinoseb (DNBP)

Recommended Holding Time Exceeded:
Results Estimated-QC Limits Exceeded

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 05/10/2005 16:57**

Sample **3662** FY **2005** Project: **05-0474**

Pesticides Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SS05D /
Media: SURFACE SOIL

Produced by: Revells, Lavon
Requestor:
Project Leader: AMASTERS
Beginning: 03/28/2005 12:35
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
8.6 U	UG/KG	Aldrin
8.6 U	UG/KG	Heptachlor
9.6 U	UG/KG	Heptachlor Epoxide
8.6 U	UG/KG	alpha-BHC
38 U	UG/KG	beta-BHC
8.8 UJ	UG/KG	gamma-BHC (Lindane)
47 U	UG/KG	delta-BHC
23 U	UG/KG	Endosulfan I (alpha)
8.6 U	UG/KG	Dieldrin
22 U	UG/KG	4,4'-DDT (p,p'-DDT)
8.6 U	UG/KG	4,4'-DDE (p,p'-DDE)
22 U	UG/KG	4,4'-DDD (p,p'-DDD)
31 U	UG/KG	Endrin
45 U	UG/KG	Endosulfan II (beta)
22 U	UG/KG	Endosulfan Sulfate
4000 JN	UG/KG	Toxaphene
8.6 U	UG/KG	Chlordene /2
8.6 U	UG/KG	gamma-Chlordane /2
33 U	UG/KG	trans-Nonachlor /2
33 U	UG/KG	alpha-Chlordane /2
8.6 U	UG/KG	cis-Nonachlor /2
43 U	UG/KG	Methoxychlor
22 U	UG/KG	Endrin Ketone
54	%	% Moisture

Results Estimated-QC Limits Exceeded

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS **EPA - REGION IV SESD, ATHENS, GA** **Production Date: 06/03/2005 16:21**

Sample **3662** FY **2005** Project: **05-0474**

SPECIFIED TESTS

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SS05D /
Media: SURFACE SOIL

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/28/2005 12:35
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
10 U	UG/KG	Atrazine
10 U	UG/KG	Cyanazine
6.4 JN	UG/KG	Dinoseb (DNBP)

Recommended Holding Time Exceeded:
Results Estimated-QC Limits Exceeded

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 05/11/2005 15:50**

Sample **3663** FY **2005** Project: **05-0474**

Pesticides Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SW-09 /
Media: SURFACE WATER

Produced by: Revells, Lavon
Requestor:
Project Leader: AMASTERS
Beginning: 03/28/2005 11:45
Ending:

RESULTS	UNITS	ANALYTE
0.098 U	UG/L	Aldrin
0.098 U	UG/L	Heptachlor
0.098 U	UG/L	Heptachlor Epoxide
0.098 U	UG/L	alpha-BHC
0.098 U	UG/L	beta-BHC
0.098 U	UG/L	gamma-BHC (Lindane)
0.098 U	UG/L	delta-BHC
0.098 U	UG/L	Endosulfan I (alpha)
0.098 U	UG/L	Dieldrin
0.24 U	UG/L	4,4'-DDT (p,p'-DDT)
0.098 U	UG/L	4,4'-DDE (p,p'-DDE)
0.24 U	UG/L	4,4'-DDD (p,p'-DDD)
0.24 U	UG/L	Endrin
0.24 U	UG/L	Endosulfan II (beta)
0.24 U	UG/L	Endosulfan Sulfate
9.8 U	UG/L	Toxaphene
0.098 U	UG/L	Chlordene /2
0.098 U	UG/L	gamma-Chlordane /2
0.098 U	UG/L	trans-Nonachlor /2
0.098 U	UG/L	alpha-Chlordane /2
0.098 U	UG/L	cis-Nonachlor /2
0.49 U	UG/L	Methoxychlor
0.24 U	UG/L	Endrin Ketone

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS **EPA - REGION IV SESD, ATHENS, GA** **Production Date: 05/11/2005 14:12**

Sample **3663** FY **2005** Project: **05-0474**

SPECIFIED TESTS

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SW-09 /
Media: SURFACE WATER

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/28/2005 11:45
Ending:

RESULTS	UNITS	ANALYTE
0.10 U	UG/L	Atrazine
0.10 U	UG/L	Cyanazine
0.24 J	UG/L	Dinoseb (DNBP)

Results Estimated-QC Limits Exceeded

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 05/10/2005 16:57**

Sample **3756** FY **2005** Project: **05-0474**

Pesticides Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SD-01 /
Media: SEDIMENT

Produced by: Revells, Lavon
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 13:40
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
5.5 U	UG/KG	Aldrin
5.5 U	UG/KG	Heptachlor
5.5 U	UG/KG	Heptachlor Epoxide
5.5 U	UG/KG	alpha-BHC
5.5 U	UG/KG	beta-BHC
5.5 UJ	UG/KG	gamma-BHC (Lindane)
8.4 U	UG/KG	delta-BHC
5.5 U	UG/KG	Endosulfan I (alpha)
6.6 U	UG/KG	Dieldrin
4.2 J	UG/KG	4,4'-DDT (p,p'-DDT)
3.7 J	UG/KG	4,4'-DDE (p,p'-DDE)
14 U	UG/KG	4,4'-DDD (p,p'-DDD)
14 U	UG/KG	Endrin
14 U	UG/KG	Endosulfan II (beta)
14 U	UG/KG	Endosulfan Sulfate
590 U	UG/KG	Toxaphene
5.5 U	UG/KG	Chlordene /2
8.4 U	UG/KG	gamma-Chlordane /2
9.3 U	UG/KG	trans-Nonachlor /2
9.3 U	UG/KG	alpha-Chlordane /2
7.9 U	UG/KG	cis-Nonachlor /2
27 U	UG/KG	Methoxychlor
16 U	UG/KG	Endrin Ketone
28	%	% Moisture

Results Estimated-QC Limits Exceeded

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS **EPA - REGION IV SESD, ATHENS, GA** **Production Date: 06/03/2005 16:21**

Sample **3756** FY **2005** Project: **05-0474**

SPECIFIED TESTS

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SD-01 /
Media: SEDIMENT

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 13:40
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
10 U	UG/KG	Atrazine
10 U	UG/KG	Cyanazine
10 UJ	UG/KG	Dinoseb (DNBP)

Recommended Holding Time Exceeded:
Results Estimated-QC Limits Exceeded

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 05/10/2005 16:57**

Sample **3757** FY **2005** Project: **05-0474**

Pesticides Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SD-02 /
Media: SEDIMENT

Produced by: Revells, Lavon
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 12:55
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
5.2 U	UG/KG	Aldrin
5.2 U	UG/KG	Heptachlor
5.2 U	UG/KG	Heptachlor Epoxide
5.2 U	UG/KG	alpha-BHC
5.2 U	UG/KG	beta-BHC
5.2 UJ	UG/KG	gamma-BHC (Lindane)
6.8 U	UG/KG	delta-BHC
5.2 U	UG/KG	Endosulfan I (alpha)
5.2 U	UG/KG	Dieldrin
13 U	UG/KG	4,4'-DDT (p,p'-DDT)
6.7 U	UG/KG	4,4'-DDE (p,p'-DDE)
13 U	UG/KG	4,4'-DDD (p,p'-DDD)
13 U	UG/KG	Endrin
13 U	UG/KG	Endosulfan II (beta)
13 U	UG/KG	Endosulfan Sulfate
540 U	UG/KG	Toxaphene
5.2 U	UG/KG	Chlordene /2
6.2 U	UG/KG	gamma-Chlordane /2
5.2 U	UG/KG	trans-Nonachlor /2
5.3 U	UG/KG	alpha-Chlordane /2
5.2 U	UG/KG	cis-Nonachlor /2
26 U	UG/KG	Methoxychlor
15 U	UG/KG	Endrin Ketone
24	%	% Moisture

Results Estimated-QC Limits Exceeded

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 06/03/2005 16:21**

Sample **3757** FY **2005** Project: **05-0474**

SPECIFIED TESTS

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SD-02 /
Media: SEDIMENT

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 12:55
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
10 U	UG/KG	Atrazine
10 U	UG/KG	Cyanazine
10 UJ	UG/KG	Dinoseb (DNBP)

Recommended Holding Time Exceeded:
Results Estimated-QC Limits Exceeded

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 05/10/2005 16:57**

Sample **3758** FY **2005** Project: **05-0474**

Pesticides Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SD-03 /
Media: SEDIMENT

Produced by: Revells, Lavon
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 12:30
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
5.3 U	UG/KG	Aldrin
5.3 U	UG/KG	Heptachlor
5.3 U	UG/KG	Heptachlor Epoxide
5.3 U	UG/KG	alpha-BHC
5.3 U	UG/KG	beta-BHC
5.3 UJ	UG/KG	gamma-BHC (Lindane)
7.3 U	UG/KG	delta-BHC
5.3 U	UG/KG	Endosulfan I (alpha)
5.6 U	UG/KG	Dieldrin
15 U	UG/KG	4,4'-DDT (p,p'-DDT)
7.8 U	UG/KG	4,4'-DDE (p,p'-DDE)
13 U	UG/KG	4,4'-DDD (p,p'-DDD)
13 U	UG/KG	Endrin
13 U	UG/KG	Endosulfan II (beta)
13 U	UG/KG	Endosulfan Sulfate
550 U	UG/KG	Toxaphene
5.3 U	UG/KG	Chlordene /2
8.8 U	UG/KG	gamma-Chlordane /2
7.6 U	UG/KG	trans-Nonachlor /2
9.0 U	UG/KG	alpha-Chlordane /2
6.2 U	UG/KG	cis-Nonachlor /2
27 U	UG/KG	Methoxychlor
16 U	UG/KG	Endrin Ketone
26	%	% Moisture

Results Estimated-QC Limits Exceeded

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS **EPA - REGION IV SESD, ATHENS, GA** **Production Date: 06/03/2005 16:21**

Sample **3758** FY **2005** Project: **05-0474**

SPECIFIED TESTS

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SD-03 /
Media: SEDIMENT

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 12:30
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
10 U	UG/KG	Atrazine
10 U	UG/KG	Cyanazine
10 UJ	UG/KG	Dinoseb (DNBP)

Recommended Holding Time Exceeded:
Results Estimated-QC Limits Exceeded

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 05/10/2005 16:57**

Sample **3759** FY **2005** Project: **05-0474**

Pesticides Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SD-04 /
Media: SEDIMENT

Produced by: Revells, Lavon
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 11:35
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
5.1 U	UG/KG	Aldrin
5.1 U	UG/KG	Heptachlor
5.1 U	UG/KG	Heptachlor Epoxide
5.1 U	UG/KG	alpha-BHC
5.1 U	UG/KG	beta-BHC
5.1 UJ	UG/KG	gamma-BHC (Lindane)
7.2 U	UG/KG	delta-BHC
5.1 U	UG/KG	Endosulfan I (alpha)
5.1 U	UG/KG	Dieldrin
13 U	UG/KG	4,4'-DDT (p,p'-DDT)
6.0 U	UG/KG	4,4'-DDE (p,p'-DDE)
13 U	UG/KG	4,4'-DDD (p,p'-DDD)
13 U	UG/KG	Endrin
13 U	UG/KG	Endosulfan II (beta)
13 U	UG/KG	Endosulfan Sulfate
530 U	UG/KG	Toxaphene
5.1 U	UG/KG	Chlordene /2
6.7 U	UG/KG	gamma-Chlordane /2
7.6 U	UG/KG	trans-Nonachlor /2
5.1 U	UG/KG	alpha-Chlordane /2
5.1 U	UG/KG	cis-Nonachlor /2
26 U	UG/KG	Methoxychlor
15 U	UG/KG	Endrin Ketone
24	%	% Moisture

Results Estimated-QC Limits Exceeded

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS **EPA - REGION IV SESD, ATHENS, GA** **Production Date: 06/03/2005 16:21**

Sample **3759** FY **2005** Project: **05-0474**

SPECIFIED TESTS

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SD-04 /
Media: SEDIMENT

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 11:35
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
10 UJ	UG/KG	Atrazine
10 UJ	UG/KG	Cyanazine
10 UJ	UG/KG	Dinoseb (DNBP)

Recommended Holding Time Exceeded:atrazine + cyanazine + dinoseb
Results Estimated-QC Limits Exceeded: dinoseb

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 05/10/2005 16:57**

Sample **3760** FY **2005** Project: **05-0474**

Pesticides Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SD-05 /
Media: SEDIMENT

Produced by: Revells, Lavon
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 09:55
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
5.1 U	UG/KG	Aldrin
5.1 U	UG/KG	Heptachlor
5.1 U	UG/KG	Heptachlor Epoxide
5.1 U	UG/KG	alpha-BHC
5.1 U	UG/KG	beta-BHC
5.1 UJ	UG/KG	gamma-BHC (Lindane)
7.0 U	UG/KG	delta-BHC
5.1 U	UG/KG	Endosulfan I (alpha)
5.1 U	UG/KG	Dieldrin
14 U	UG/KG	4,4'-DDT (p,p'-DDT)
1.2 U	UG/KG	4,4'-DDE (p,p'-DDE)
13 U	UG/KG	4,4'-DDD (p,p'-DDD)
13 U	UG/KG	Endrin
13 U	UG/KG	Endosulfan II (beta)
13 U	UG/KG	Endosulfan Sulfate
530 U	UG/KG	Toxaphene
5.1 U	UG/KG	Chlordene /2
6.6 U	UG/KG	gamma-Chlordane /2
6.9 U	UG/KG	trans-Nonachlor /2
6.9 U	UG/KG	alpha-Chlordane /2
5.1 U	UG/KG	cis-Nonachlor /2
26 U	UG/KG	Methoxychlor
13 U	UG/KG	Endrin Ketone
24	%	% Moisture

Results Estimated-QC Limits Exceeded

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS **EPA - REGION IV SESD, ATHENS, GA** **Production Date: 06/03/2005 16:21**

Sample **3760** FY **2005** Project: **05-0474**

SPECIFIED TESTS

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SD-05 /
Media: SEDIMENT

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 09:55
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
10 UJ	UG/KG	Atrazine
10 UJ	UG/KG	Cyanazine
0.023 JN	UG/KG	Dinoseb (DNBP)

Recommended Holding Time Exceeded: all targets
Results Estimated-QC Limits Exceeded: dinoseb

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 05/10/2005 16:57**

Sample **3761** FY **2005** Project: **05-0474**

Pesticides Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SD-06 /
Media: SEDIMENT

Produced by: Revells, Lavon
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 09:30
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
5.4 U	UG/KG	Aldrin
5.4 U	UG/KG	Heptachlor
5.4 U	UG/KG	Heptachlor Epoxide
5.4 U	UG/KG	alpha-BHC
5.4 U	UG/KG	beta-BHC
5.4 UJ	UG/KG	gamma-BHC (Lindane)
7.3 U	UG/KG	delta-BHC
5.4 U	UG/KG	Endosulfan I (alpha)
6.6 U	UG/KG	Dieldrin
4.2 J	UG/KG	4,4'-DDT (p,p'-DDT)
1.9 J	UG/KG	4,4'-DDE (p,p'-DDE)
14 U	UG/KG	4,4'-DDD (p,p'-DDD)
14 U	UG/KG	Endrin
14 U	UG/KG	Endosulfan II (beta)
16 U	UG/KG	Endosulfan Sulfate
590 U	UG/KG	Toxaphene
5.4 U	UG/KG	Chlordene /2
8.8 U	UG/KG	gamma-Chlordane /2
9.2 U	UG/KG	trans-Nonachlor /2
9.2 U	UG/KG	alpha-Chlordane /2
7.6 U	UG/KG	cis-Nonachlor /2
27 U	UG/KG	Methoxychlor
16 U	UG/KG	Endrin Ketone
28	%	% Moisture

Results Estimated-QC Limits Exceeded

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS **EPA - REGION IV SESD, ATHENS, GA** **Production Date: 06/03/2005 16:21**

Sample **3761** FY **2005** Project: **05-0474**

SPECIFIED TESTS

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SD-06 /
Media: SEDIMENT

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 09:30
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
10 U	UG/KG	Atrazine
10 U	UG/KG	Cyanazine
10 UJ	UG/KG	Dinoseb (DNBP)

Recommended Holding Time Exceeded:
Results Estimated-QC Limits Exceeded

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 05/10/2005 16:57**

Sample **3762** FY **2005** Project: **05-0474**

Pesticides Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SD-07 /
Media: SEDIMENT

Produced by: Revells, Lavon
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 14:35
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
5.2 U	UG/KG	Aldrin
5.2 U	UG/KG	Heptachlor
5.2 U	UG/KG	Heptachlor Epoxide
5.2 U	UG/KG	alpha-BHC
5.2 U	UG/KG	beta-BHC
5.2 UJ	UG/KG	gamma-BHC (Lindane)
6.2 U	UG/KG	delta-BHC
5.2 U	UG/KG	Endosulfan I (alpha)
5.2 U	UG/KG	Dieldrin
13 U	UG/KG	4,4'-DDT (p,p'-DDT)
6.1 U	UG/KG	4,4'-DDE (p,p'-DDE)
13 U	UG/KG	4,4'-DDD (p,p'-DDD)
13 U	UG/KG	Endrin
13 U	UG/KG	Endosulfan II (beta)
13 U	UG/KG	Endosulfan Sulfate
530 U	UG/KG	Toxaphene
5.2 U	UG/KG	Chlordene /2
5.2 U	UG/KG	gamma-Chlordane /2
5.2 U	UG/KG	trans-Nonachlor /2
5.2 U	UG/KG	alpha-Chlordane /2
5.2 U	UG/KG	cis-Nonachlor /2
26 U	UG/KG	Methoxychlor
13 U	UG/KG	Endrin Ketone
24	%	% Moisture

Results Estimated-QC Limits Exceeded

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 06/03/2005 16:21**

Sample **3762** FY **2005** Project: **05-0474**

SPECIFIED TESTS

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SD-07 /
Media: SEDIMENT

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 14:35
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
10 U	UG/KG	Atrazine
10 U	UG/KG	Cyanazine
10 UJ	UG/KG	Dinoseb (DNBP)

Recommended Holding Time Exceeded:
Results Estimated-QC Limits Exceeded

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 05/10/2005 16:57**

Sample **3763** FY **2005** Project: **05-0474**

Pesticides Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SD-08 /
Media: SEDIMENT

Produced by: Revells, Lavon
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 08:30
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
5.0 U	UG/KG	Aldrin
5.0 U	UG/KG	Heptachlor
5.0 U	UG/KG	Heptachlor Epoxide
5.0 U	UG/KG	alpha-BHC
5.9 U	UG/KG	beta-BHC
5.0 UJ	UG/KG	gamma-BHC (Lindane)
7.0 U	UG/KG	delta-BHC
5.0 U	UG/KG	Endosulfan I (alpha)
5.0 U	UG/KG	Dieldrin
13 U	UG/KG	4,4'-DDT (p,p'-DDT)
5.0 U	UG/KG	4,4'-DDE (p,p'-DDE)
13 U	UG/KG	4,4'-DDD (p,p'-DDD)
13 U	UG/KG	Endrin
13 U	UG/KG	Endosulfan II (beta)
13 U	UG/KG	Endosulfan Sulfate
630 U	UG/KG	Toxaphene
5.0 U	UG/KG	Chlordene /2
5.3 U	UG/KG	gamma-Chlordane /2
5.0 U	UG/KG	trans-Nonachlor /2
8.3 U	UG/KG	alpha-Chlordane /2
5.0 U	UG/KG	cis-Nonachlor /2
25 U	UG/KG	Methoxychlor
13 U	UG/KG	Endrin Ketone
22	%	% Moisture

Results Estimated-QC Limits Exceeded

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS **EPA - REGION IV SESD, ATHENS, GA** **Production Date: 05/10/2005 16:57**

Sample **3763** FY **2005** Project: **05-0474**

MISCELLANEOUS COMPOUNDS

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SD-08 /
Media: SEDIMENT

Produced by: Revells, Lavon
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 08:30
Ending:

RESULTS	UNITS	ANALYTE
140 J	UG/KG	AR1254

Results Estimated-QC Limits Exceeded

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS **EPA - REGION IV SESD, ATHENS, GA** **Production Date: 06/03/2005 16:21**

Sample **3763** FY **2005** Project: **05-0474**

SPECIFIED TESTS

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SD-08 /
Media: SEDIMENT

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 08:30
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
10 U	UG/KG	Atrazine
10 U	UG/KG	Cyanazine
10 UJ	UG/KG	Dinoseb (DNBP)

Recommended Holding Time Exceeded:
Results Estimated-QC Limits Exceeded

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. ¦ NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 05/10/2005 16:57**

Sample **3764** FY **2005** Project: **05-0474**

Pesticides Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SD-11 /
Media: SEDIMENT

Produced by: Revells, Lavon
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 11:05
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
5.5 U	UG/KG	Aldrin
5.5 U	UG/KG	Heptachlor
5.5 U	UG/KG	Heptachlor Epoxide
5.5 U	UG/KG	alpha-BHC
5.5 U	UG/KG	beta-BHC
5.5 UJ	UG/KG	gamma-BHC (Lindane)
7.0 U	UG/KG	delta-BHC
5.5 U	UG/KG	Endosulfan I (alpha)
5.8 U	UG/KG	Dieldrin
14 U	UG/KG	4,4'-DDT (p,p'-DDT)
7.0 U	UG/KG	4,4'-DDE (p,p'-DDE)
14 U	UG/KG	4,4'-DDD (p,p'-DDD)
15 U	UG/KG	Endrin
14 U	UG/KG	Endosulfan II (beta)
14 U	UG/KG	Endosulfan Sulfate
550 U	UG/KG	Toxaphene
5.5 U	UG/KG	Chlordene /2
6.0 U	UG/KG	gamma-Chlordane /2
5.5 U	UG/KG	trans-Nonachlor /2
5.9 U	UG/KG	alpha-Chlordane /2
5.5 U	UG/KG	cis-Nonachlor /2
27 U	UG/KG	Methoxychlor
14 U	UG/KG	Endrin Ketone
28	%	% Moisture

Results Estimated-QC Limits Exceeded

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 06/03/2005 16:21**

Sample **3764** FY **2005** Project: **05-0474**

SPECIFIED TESTS

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SD-11 /
Media: SEDIMENT

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 11:05
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
10 U	UG/KG	Atrazine
10 U	UG/KG	Cyanazine
10 UJ	UG/KG	Dinoseb (DNBP)

Recommended Holding Time Exceeded:
Results Estimated-QC Limits Exceeded

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 05/11/2005 14:12**

Sample **3770** FY **2005** Project: **05-0474**

Pesticides Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SW-01 / VC-SW-01
Media: SURFACE WATER

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 13:40
Ending:

RESULTS	UNITS	ANALYTE
0.10 U	UG/L	Aldrin
0.10 U	UG/L	Heptachlor
0.10 U	UG/L	Heptachlor Epoxide
0.10 U	UG/L	alpha-BHC
0.10 U	UG/L	beta-BHC
0.10 U	UG/L	gamma-BHC (Lindane)
0.10 U	UG/L	delta-BHC
0.10 U	UG/L	Endosulfan I (alpha)
0.10 U	UG/L	Dieldrin
0.26 U	UG/L	4,4'-DDT (p,p'-DDT)
0.10 U	UG/L	4,4'-DDE (p,p'-DDE)
0.26 U	UG/L	4,4'-DDD (p,p'-DDD)
0.26 U	UG/L	Endrin
0.26 U	UG/L	Endosulfan II (beta)
0.26 U	UG/L	Endosulfan Sulfate
10 U	UG/L	Toxaphene
0.10 U	UG/L	Chlordene /2
0.10 U	UG/L	gamma-Chlordane /2
0.10 U	UG/L	trans-Nonachlor /2
0.10 U	UG/L	alpha-Chlordane /2
0.10 U	UG/L	cis-Nonachlor /2
0.52 U	UG/L	Methoxychlor
0.26 U	UG/L	Endrin Ketone

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 05/11/2005 14:12**

Sample **3770** FY **2005** Project: **05-0474**

SPECIFIED TESTS

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SW-01 / VC-SW-01
Media: SURFACE WATER

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 13:40
Ending:

RESULTS	UNITS	ANALYTE
0.10 U	UG/L	Atrazine
0.10 U	UG/L	Cyanazine
3.6 J	UG/L	Dinoseb (DNBP)

Results Estimated-QC Limits Exceeded

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS **EPA - REGION IV SESD, ATHENS, GA** **Production Date: 05/11/2005 14:12**

Sample **3771** FY **2005** Project: **05-0474**

Pesticides Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SW-04 / VC-SW-04
Media: SURFACE WATER

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 11:35
Ending:

RESULTS	UNITS	ANALYTE
0.099 U	UG/L	Aldrin
0.099 U	UG/L	Heptachlor
0.099 U	UG/L	Heptachlor Epoxide
0.099 U	UG/L	alpha-BHC
0.099 U	UG/L	beta-BHC
0.099 U	UG/L	gamma-BHC (Lindane)
0.099 U	UG/L	delta-BHC
0.099 U	UG/L	Endosulfan I (alpha)
0.099 U	UG/L	Dieldrin
0.25 U	UG/L	4,4'-DDT (p,p'-DDT)
0.099 U	UG/L	4,4'-DDE (p,p'-DDE)
0.25 U	UG/L	4,4'-DDD (p,p'-DDD)
0.25 U	UG/L	Endrin
0.25 U	UG/L	Endosulfan II (beta)
0.25 U	UG/L	Endosulfan Sulfate
9.9 U	UG/L	Toxaphene
0.099 U	UG/L	Chlordene /2
0.099 U	UG/L	gamma-Chlordane /2
0.099 U	UG/L	trans-Nonachlor /2
0.099 U	UG/L	alpha-Chlordane /2
0.099 U	UG/L	cis-Nonachlor /2
0.50 U	UG/L	Methoxychlor
0.25 U	UG/L	Endrin Ketone

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS **EPA - REGION IV SESD, ATHENS, GA** **Production Date: 05/11/2005 14:12**

Sample **3771** FY **2005** Project: **05-0474**

SPECIFIED TESTS

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SW-04 / VC-SW-04
Media: SURFACE WATER

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 11:35
Ending:

RESULTS	UNITS	ANALYTE
0.10 U	UG/L	Atrazine
0.10 U	UG/L	Cyanazine
0.25 UJ	UG/L	Dinoseb (DNBP)

Results Estimated-QC Limits Exceeded

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 05/11/2005 14:12**

Sample **3772** FY **2005** Project: **05-0474**

Pesticides Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SW-07 / VC-SW-07
Media: SURFACE WATER

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 14:35
Ending:

RESULTS	UNITS	ANALYTE
0.12 U	UG/L	Aldrin
0.12 U	UG/L	Heptachlor
0.12 U	UG/L	Heptachlor Epoxide
0.12 U	UG/L	alpha-BHC
0.12 U	UG/L	beta-BHC
0.12 U	UG/L	gamma-BHC (Lindane)
0.12 U	UG/L	delta-BHC
0.12 U	UG/L	Endosulfan I (alpha)
0.12 U	UG/L	Dieldrin
0.30 U	UG/L	4,4'-DDT (p,p'-DDT)
0.12 U	UG/L	4,4'-DDE (p,p'-DDE)
0.29 U	UG/L	4,4'-DDD (p,p'-DDD)
0.29 U	UG/L	Endrin
0.29 U	UG/L	Endosulfan II (beta)
0.29 U	UG/L	Endosulfan Sulfate
11 U	UG/L	Toxaphene
0.12 U	UG/L	Chlordene /2
0.12 U	UG/L	gamma-Chlordane /2
0.12 U	UG/L	trans-Nonachlor /2
0.12 U	UG/L	alpha-Chlordane /2
0.12 U	UG/L	cis-Nonachlor /2
0.58 U	UG/L	Methoxychlor
0.29 U	UG/L	Endrin Ketone

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS **EPA - REGION IV SESD, ATHENS, GA** **Production Date: 05/11/2005 14:12**

Sample **3772** FY **2005** Project: **05-0474**

SPECIFIED TESTS

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SW-07 / VC-SW-07
Media: SURFACE WATER

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 14:35
Ending:

RESULTS	UNITS	ANALYTE
0.10 U	UG/L	Atrazine
0.10 U	UG/L	Cyanazine
0.25 UJ	UG/L	Dinoseb (DNBP)

Results Estimated-QC Limits Exceeded

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 05/11/2005 14:12**

Sample **3773** FY **2005** Project: **05-0474**

Pesticides Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SW-08 / VC-SW-08
Media: SURFACE WATER

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 08:30
Ending:

RESULTS	UNITS	ANALYTE
0.10 U	UG/L	Aldrin
0.10 U	UG/L	Heptachlor
0.10 U	UG/L	Heptachlor Epoxide
0.10 U	UG/L	alpha-BHC
0.10 U	UG/L	beta-BHC
0.10 U	UG/L	gamma-BHC (Lindane)
0.10 U	UG/L	delta-BHC
0.10 U	UG/L	Endosulfan I (alpha)
0.10 U	UG/L	Dieldrin
0.25 U	UG/L	4,4'-DDT (p,p'-DDT)
0.10 U	UG/L	4,4'-DDE (p,p'-DDE)
0.25 U	UG/L	4,4'-DDD (p,p'-DDD)
0.25 U	UG/L	Endrin
0.25 U	UG/L	Endosulfan II (beta)
0.25 U	UG/L	Endosulfan Sulfate
10 U	UG/L	Toxaphene
0.10 U	UG/L	Chlordene /2
0.10 U	UG/L	gamma-Chlordane /2
0.10 U	UG/L	trans-Nonachlor /2
0.10 U	UG/L	alpha-Chlordane /2
0.10 U	UG/L	cis-Nonachlor /2
0.50 U	UG/L	Methoxychlor
0.25 U	UG/L	Endrin Ketone

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 05/11/2005 14:12**

Sample **3773** FY **2005** Project: **05-0474**

SPECIFIED TESTS

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-SW-08 / VC-SW-08
Media: SURFACE WATER

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 08:30
Ending:

RESULTS	UNITS	ANALYTE
0.10 UJ	UG/L	Atrazine
0.10 U	UG/L	Cyanazine
0.059 J	UG/L	Dinoseb (DNBP)

Results Estimated-QC Limits Exceeded

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 05/11/2005 14:12**

Sample **3774** FY **2005** Project: **05-0474**

Pesticides Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-MW-13 / VC-MW-13
Media: GROUNDWATER

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/30/2005 14:50
Ending:

RESULTS	UNITS	ANALYTE
0.11 U	UG/L	Aldrin
0.11 U	UG/L	Heptachlor
0.11 U	UG/L	Heptachlor Epoxide
0.11 U	UG/L	alpha-BHC
0.11 U	UG/L	beta-BHC
0.11 U	UG/L	gamma-BHC (Lindane)
0.11 U	UG/L	delta-BHC
0.11 U	UG/L	Endosulfan I (alpha)
0.11 U	UG/L	Dieldrin
0.27 U	UG/L	4,4'-DDT (p,p'-DDT)
0.11 U	UG/L	4,4'-DDE (p,p'-DDE)
0.27 U	UG/L	4,4'-DDD (p,p'-DDD)
0.27 U	UG/L	Endrin
0.27 U	UG/L	Endosulfan II (beta)
0.27 U	UG/L	Endosulfan Sulfate
11 U	UG/L	Toxaphene
0.11 U	UG/L	Chlordene /2
0.11 U	UG/L	gamma-Chlordane /2
0.11 U	UG/L	trans-Nonachlor /2
0.11 U	UG/L	alpha-Chlordane /2
0.11 U	UG/L	cis-Nonachlor /2
0.54 U	UG/L	Methoxychlor
0.32 U	UG/L	Endrin Ketone

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 05/11/2005 14:12**

Sample **3774** FY **2005** Project: **05-0474**

SPECIFIED TESTS

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-MW-13 / VC-MW-13
Media: GROUNDWATER

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/30/2005 14:50
Ending:

RESULTS	UNITS	ANALYTE
0.10 UJ	UG/L	Atrazine
0.10 U	UG/L	Cyanazine
0.25 UJ	UG/L	Dinoseb (DNBP)

Results Estimated-QC Limits Exceeded

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 05/11/2005 14:12**

Sample **3775** FY **2005** Project: **05-0474**

Pesticides Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-MW-16 / VW-MW-14
Media: GROUNDWATER

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/31/2005 11:45
Ending:

RESULTS	UNITS	ANALYTE
0.10 U	UG/L	Aldrin
0.10 U	UG/L	Heptachlor
0.10 U	UG/L	Heptachlor Epoxide
0.10 U	UG/L	alpha-BHC
0.10 U	UG/L	beta-BHC
0.10 U	UG/L	gamma-BHC (Lindane)
0.10 U	UG/L	delta-BHC
0.10 U	UG/L	Endosulfan I (alpha)
0.10 U	UG/L	Dieldrin
0.26 U	UG/L	4,4'-DDT (p,p'-DDT)
0.10 U	UG/L	4,4'-DDE (p,p'-DDE)
0.26 U	UG/L	4,4'-DDD (p,p'-DDD)
0.28 U	UG/L	Endrin
0.26 U	UG/L	Endosulfan II (beta)
0.26 U	UG/L	Endosulfan Sulfate
10 U	UG/L	Toxaphene
0.10 U	UG/L	Chlordene /2
0.10 U	UG/L	gamma-Chlordane /2
0.10 U	UG/L	trans-Nonachlor /2
0.10 U	UG/L	alpha-Chlordane /2
0.10 U	UG/L	cis-Nonachlor /2
0.51 U	UG/L	Methoxychlor
0.26 U	UG/L	Endrin Ketone

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 05/11/2005 14:12**

Sample **3775** FY **2005** Project: **05-0474**

SPECIFIED TESTS

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-MW-16 / VW-MW-14
Media: GROUNDWATER

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/31/2005 11:45
Ending:

RESULTS	UNITS	ANALYTE
0.10 UJ	UG/L	Atrazine
0.10 U	UG/L	Cyanazine
0.25 UJ	UG/L	Dinoseb (DNBP)

Results Estimated-QC Limits Exceeded

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 05/11/2005 14:12**

Sample **3776** FY **2005** Project: **05-0474**

Pesticides Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-MW-1C / VC-MW-1C
Media: GROUNDWATER

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/31/2005 10:35
Ending:

RESULTS	UNITS	ANALYTE
0.11 U	UG/L	Aldrin
0.11 U	UG/L	Heptachlor
0.11 U	UG/L	Heptachlor Epoxide
0.11 U	UG/L	alpha-BHC
0.11 U	UG/L	beta-BHC
0.11 U	UG/L	gamma-BHC (Lindane)
0.11 U	UG/L	delta-BHC
0.11 U	UG/L	Endosulfan I (alpha)
0.11 U	UG/L	Dieldrin
0.27 U	UG/L	4,4'-DDT (p,p'-DDT)
0.11 U	UG/L	4,4'-DDE (p,p'-DDE)
0.27 U	UG/L	4,4'-DDD (p,p'-DDD)
0.27 U	UG/L	Endrin
0.27 U	UG/L	Endosulfan II (beta)
0.27 U	UG/L	Endosulfan Sulfate
11 U	UG/L	Toxaphene
0.11 U	UG/L	Chlordene /2
0.11 U	UG/L	gamma-Chlordane /2
0.11 U	UG/L	trans-Nonachlor /2
0.11 U	UG/L	alpha-Chlordane /2
0.11 U	UG/L	cis-Nonachlor /2
0.53 U	UG/L	Methoxychlor
0.27 U	UG/L	Endrin Ketone

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS **EPA - REGION IV SESD, ATHENS, GA** **Production Date: 05/11/2005 14:12**

Sample **3776** FY **2005** Project: **05-0474**

SPECIFIED TESTS

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-MW-1C / VC-MW-1C
Media: GROUNDWATER

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/31/2005 10:35
Ending:

RESULTS	UNITS	ANALYTE
0.10 UJ	UG/L	Atrazine
0.10 U	UG/L	Cyanazine
23 J	UG/L	Dinoseb (DNBP)

Results Estimated-QC Limits Exceeded

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. ¦ UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS ¦ /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 05/11/2005 14:12**

Sample **3777** FY **2005** Project: **05-0474**

Pesticides Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-MW-2 / VC-MW-2
Media: GROUNDWATER

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/30/2005 13:50
Ending:

RESULTS	UNITS	ANALYTE
0.10 U	UG/L	Aldrin
0.10 U	UG/L	Heptachlor
0.10 U	UG/L	Heptachlor Epoxide
0.10 U	UG/L	alpha-BHC
0.10 U	UG/L	beta-BHC
0.10 U	UG/L	gamma-BHC (Lindane)
0.10 U	UG/L	delta-BHC
0.10 U	UG/L	Endosulfan I (alpha)
0.10 U	UG/L	Dieldrin
0.25 U	UG/L	4,4'-DDT (p,p'-DDT)
0.10 U	UG/L	4,4'-DDE (p,p'-DDE)
0.25 U	UG/L	4,4'-DDD (p,p'-DDD)
0.27 U	UG/L	Endrin
0.25 U	UG/L	Endosulfan II (beta)
0.25 U	UG/L	Endosulfan Sulfate
10 U	UG/L	Toxaphene
0.10 U	UG/L	Chlordene /2
0.10 U	UG/L	gamma-Chlordane /2
0.10 U	UG/L	trans-Nonachlor /2
0.10 U	UG/L	alpha-Chlordane /2
0.10 U	UG/L	cis-Nonachlor /2
0.50 U	UG/L	Methoxychlor
0.25 U	UG/L	Endrin Ketone

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS **EPA - REGION IV SESD, ATHENS, GA** **Production Date: 05/11/2005 14:12**

Sample **3777** FY **2005** Project: **05-0474**

SPECIFIED TESTS

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-MW-2 / VC-MW-2
Media: GROUNDWATER

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/30/2005 13:50
Ending:

RESULTS	UNITS	ANALYTE
0.10 UJ	UG/L	Atrazine
0.10 U	UG/L	Cyanazine
0.25 UJ	UG/L	Dinoseb (DNBP)

Results Estimated-QC Limits Exceeded

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 05/11/2005 14:12**

Sample **3778** FY **2005** Project: **05-0474**

Pesticides Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-MW-6 / VC-MW-6
Media: GROUNDWATER

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/30/2005 15:50
Ending:

RESULTS	UNITS	ANALYTE
0.11 U	UG/L	Aldrin
0.11 U	UG/L	Heptachlor
0.11 U	UG/L	Heptachlor Epoxide
0.11 U	UG/L	alpha-BHC
0.11 U	UG/L	beta-BHC
0.11 U	UG/L	gamma-BHC (Lindane)
0.11 U	UG/L	delta-BHC
0.11 U	UG/L	Endosulfan I (alpha)
0.11 U	UG/L	Dieldrin
0.27 U	UG/L	4,4'-DDT (p,p'-DDT)
0.11 U	UG/L	4,4'-DDE (p,p'-DDE)
0.27 U	UG/L	4,4'-DDD (p,p'-DDD)
0.27 U	UG/L	Endrin
0.27 U	UG/L	Endosulfan II (beta)
0.27 U	UG/L	Endosulfan Sulfate
11 U	UG/L	Toxaphene
0.11 U	UG/L	Chlordene /2
0.11 U	UG/L	gamma-Chlordane /2
0.11 U	UG/L	trans-Nonachlor /2
0.11 U	UG/L	alpha-Chlordane /2
0.11 U	UG/L	cis-Nonachlor /2
0.54 U	UG/L	Methoxychlor
0.27 U	UG/L	Endrin Ketone

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS **EPA - REGION IV SESD, ATHENS, GA** **Production Date: 05/11/2005 14:12**

Sample **3778** FY **2005** Project: **05-0474**

SPECIFIED TESTS

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-MW-6 / VC-MW-6
Media: GROUNDWATER

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/30/2005 15:50
Ending:

RESULTS	UNITS	ANALYTE
0.10 UJ	UG/L	Atrazine
0.10 U	UG/L	Cyanazine
0.078 J	UG/L	Dinoseb (DNBP)

Results Estimated-QC Limits Exceeded

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS **EPA - REGION IV SESD, ATHENS, GA** **Production Date: 05/11/2005 14:12**

Sample **3779** FY **2005** Project: **05-0474**

Pesticides Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-MW-7 / VC-MW-7
Media: GROUNDWATER

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/31/2005 13:55
Ending:

RESULTS	UNITS	ANALYTE
0.10 U	UG/L	Aldrin
0.10 U	UG/L	Heptachlor
0.10 U	UG/L	Heptachlor Epoxide
0.10 U	UG/L	alpha-BHC
0.10 U	UG/L	beta-BHC
0.10 U	UG/L	gamma-BHC (Lindane)
0.10 U	UG/L	delta-BHC
0.10 U	UG/L	Endosulfan I (alpha)
0.10 U	UG/L	Dieldrin
0.26 U	UG/L	4,4'-DDT (p,p'-DDT)
0.10 U	UG/L	4,4'-DDE (p,p'-DDE)
0.26 U	UG/L	4,4'-DDD (p,p'-DDD)
0.26 U	UG/L	Endrin
0.26 U	UG/L	Endosulfan II (beta)
0.26 U	UG/L	Endosulfan Sulfate
10 U	UG/L	Toxaphene
0.10 U	UG/L	Chlordene /2
0.10 U	UG/L	gamma-Chlordane /2
0.10 U	UG/L	trans-Nonachlor /2
0.10 U	UG/L	alpha-Chlordane /2
0.10 U	UG/L	cis-Nonachlor /2
0.52 U	UG/L	Methoxychlor
0.30 U	UG/L	Endrin Ketone

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 05/11/2005 14:12**

Sample **3779** FY **2005** Project: **05-0474**

SPECIFIED TESTS

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-MW-7 / VC-MW-7
Media: GROUNDWATER

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/31/2005 13:55
Ending:

RESULTS	UNITS	ANALYTE
0.10 UJ	UG/L	Atrazine
0.10 U	UG/L	Cyanazine
0.25 UJ	UG/L	Dinoseb (DNBP)

Results Estimated-QC Limits Exceeded

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 05/11/2005 14:12**

Sample **3780** FY **2005** Project: **05-0474**

Pesticides Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-MW-8 / VC-MW-8
Media: GROUNDWATER

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/30/2005 14:45
Ending:

RESULTS	UNITS	ANALYTE
0.099 U	UG/L	Aldrin
0.099 U	UG/L	Heptachlor
0.099 U	UG/L	Heptachlor Epoxide
0.099 U	UG/L	alpha-BHC
0.099 U	UG/L	beta-BHC
0.099 U	UG/L	gamma-BHC (Lindane)
0.099 U	UG/L	delta-BHC
0.099 U	UG/L	Endosulfan I (alpha)
0.099 U	UG/L	Dieldrin
0.25 U	UG/L	4,4'-DDT (p,p'-DDT)
0.099 U	UG/L	4,4'-DDE (p,p'-DDE)
0.25 U	UG/L	4,4'-DDD (p,p'-DDD)
0.25 U	UG/L	Endrin
0.25 U	UG/L	Endosulfan II (beta)
0.25 U	UG/L	Endosulfan Sulfate
9.9 U	UG/L	Toxaphene
0.099 U	UG/L	Chlordene /2
0.099 U	UG/L	gamma-Chlordane /2
0.099 U	UG/L	trans-Nonachlor /2
0.099 U	UG/L	alpha-Chlordane /2
0.099 U	UG/L	cis-Nonachlor /2
0.50 U	UG/L	Methoxychlor
0.25 U	UG/L	Endrin Ketone

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS **EPA - REGION IV SESD, ATHENS, GA** **Production Date: 05/11/2005 14:12**

Sample **3780** FY **2005** Project: **05-0474**

SPECIFIED TESTS

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-MW-8 / VC-MW-8
Media: GROUNDWATER

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/30/2005 14:45
Ending:

RESULTS	UNITS	ANALYTE
0.10 UJ	UG/L	Atrazine
0.10 U	UG/L	Cyanazine
0.25 UJ	UG/L	Dinoseb (DNBP)

Results Estimated-QC Limits Exceeded

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 05/11/2005 14:12**

Sample **3781** FY **2005** Project: **05-0474**

Pesticides Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-MW-9 / VC-MW-9
Media: GROUNDWATER

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/30/2005 13:07
Ending:

RESULTS	UNITS	ANALYTE
0.10 U	UG/L	Aldrin
0.10 U	UG/L	Heptachlor
0.10 U	UG/L	Heptachlor Epoxide
0.10 U	UG/L	alpha-BHC
0.10 U	UG/L	beta-BHC
0.10 U	UG/L	gamma-BHC (Lindane)
0.10 U	UG/L	delta-BHC
0.10 U	UG/L	Endosulfan I (alpha)
0.10 U	UG/L	Dieldrin
0.25 U	UG/L	4,4'-DDT (p,p'-DDT)
0.10 U	UG/L	4,4'-DDE (p,p'-DDE)
0.25 U	UG/L	4,4'-DDD (p,p'-DDD)
0.25 U	UG/L	Endrin
0.25 U	UG/L	Endosulfan II (beta)
0.25 U	UG/L	Endosulfan Sulfate
10 U	UG/L	Toxaphene
0.10 U	UG/L	Chlordene /2
0.10 U	UG/L	gamma-Chlordane /2
0.10 U	UG/L	trans-Nonachlor /2
0.10 U	UG/L	alpha-Chlordane /2
0.10 U	UG/L	cis-Nonachlor /2
0.50 U	UG/L	Methoxychlor
0.29 U	UG/L	Endrin Ketone

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS **EPA - REGION IV SESD, ATHENS, GA** **Production Date: 05/11/2005 14:12**

Sample **3781** FY **2005** Project: **05-0474**

SPECIFIED TESTS

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-MW-9 / VC-MW-9
Media: GROUNDWATER

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/30/2005 13:07
Ending:

RESULTS	UNITS	ANALYTE
0.10 UJ	UG/L	Atrazine
0.10 U	UG/L	Cyanazine
1.8 J	UG/L	Dinoseb (DNBP)

Results Estimated-QC Limits Exceeded

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 05/11/2005 14:12**

Sample **3782** FY **2005** Project: **05-0474**

Pesticides Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-MW-10C / VC-MW-10C
Media: GROUNDWATER

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 17:15
Ending:

RESULTS	UNITS	ANALYTE
0.061 J	UG/L	Aldrin
0.10 U	UG/L	Heptachlor
0.35 J	UG/L	Heptachlor Epoxide
0.11 U	UG/L	alpha-BHC
0.10 U	UG/L	beta-BHC
0.083 J	UG/L	gamma-BHC (Lindane)
0.17 U	UG/L	delta-BHC
0.14 U	UG/L	Endosulfan I (alpha)
0.13 U	UG/L	Dieldrin
0.26 U	UG/L	4,4'-DDT (p,p'-DDT)
0.12 U	UG/L	4,4'-DDE (p,p'-DDE)
0.25 U	UG/L	4,4'-DDD (p,p'-DDD)
0.27 U	UG/L	Endrin
0.25 U	UG/L	Endosulfan II (beta)
0.25 U	UG/L	Endosulfan Sulfate
10 U	UG/L	Toxaphene
0.68 U	UG/L	Chlordene /2
0.18 U	UG/L	gamma-Chlordane /2
0.0015 J	UG/L	trans-Nonachlor /2
0.10 U	UG/L	alpha-Chlordane /2
0.10 U	UG/L	cis-Nonachlor /2
0.50 U	UG/L	Methoxychlor
0.25 U	UG/L	Endrin Ketone

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 05/11/2005 14:12**

Sample **3782** FY **2005** Project: **05-0474**

SPECIFIED TESTS

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-MW-10C / VC-MW-10C
Media: GROUNDWATER

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 17:15
Ending:

RESULTS	UNITS	ANALYTE
0.10 UJ	UG/L	Atrazine
0.10 U	UG/L	Cyanazine
19000 J	UG/L	Dinoseb (DNBP)

Results Estimated-QC Limits Exceeded

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 05/11/2005 14:12**

Sample **3783** FY **2005** Project: **05-0474**

Pesticides Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-MW-12C / VC-MW-12C
Media: GROUNDWATER

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 17:30
Ending:

RESULTS	UNITS	ANALYTE
0.0088 J	UG/L	Aldrin
0.10 U	UG/L	Heptachlor
0.15 U	UG/L	Heptachlor Epoxide
0.10 U	UG/L	alpha-BHC
0.10 U	UG/L	beta-BHC
0.10 U	UG/L	gamma-BHC (Lindane)
0.10 U	UG/L	delta-BHC
0.16 U	UG/L	Endosulfan I (alpha)
0.24	UG/L	Dieldrin
0.25 U	UG/L	4,4'-DDT (p,p'-DDT)
0.10 U	UG/L	4,4'-DDE (p,p'-DDE)
0.25 U	UG/L	4,4'-DDD (p,p'-DDD)
0.25 U	UG/L	Endrin
0.083 J	UG/L	Endosulfan II (beta)
0.25 U	UG/L	Endosulfan Sulfate
19 U	UG/L	Toxaphene
0.35 U	UG/L	Chlordene /2
0.10 U	UG/L	gamma-Chlordane /2
0.10 U	UG/L	trans-Nonachlor /2
0.10 U	UG/L	alpha-Chlordane /2
0.10 U	UG/L	cis-Nonachlor /2
0.50 U	UG/L	Methoxychlor
0.25 U	UG/L	Endrin Ketone

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 05/11/2005 14:12**

Sample **3783** FY **2005** Project: **05-0474**

SPECIFIED TESTS

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-MW-12C / VC-MW-12C
Media: GROUNDWATER

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 17:30
Ending:

RESULTS	UNITS	ANALYTE
0.10 UJ	UG/L	Atrazine
0.10 U	UG/L	Cyanazine
24000 J	UG/L	Dinoseb (DNBP)

Results Estimated-QC Limits Exceeded

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 05/11/2005 14:12**

Sample **3784** FY **2005** Project: **05-0474**

Pesticides Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-MW-17A / VC-MW-17A
Media: GROUNDWATER

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 18:50
Ending:

RESULTS	UNITS	ANALYTE
0.10 U	UG/L	Aldrin
0.10 U	UG/L	Heptachlor
0.10 U	UG/L	Heptachlor Epoxide
0.10 U	UG/L	alpha-BHC
0.10 U	UG/L	beta-BHC
0.10 U	UG/L	gamma-BHC (Lindane)
0.10 U	UG/L	delta-BHC
0.10 U	UG/L	Endosulfan I (alpha)
0.10 U	UG/L	Dieldrin
0.26 U	UG/L	4,4'-DDT (p,p'-DDT)
0.10 U	UG/L	4,4'-DDE (p,p'-DDE)
0.26 U	UG/L	4,4'-DDD (p,p'-DDD)
0.26 U	UG/L	Endrin
0.26 U	UG/L	Endosulfan II (beta)
0.26 U	UG/L	Endosulfan Sulfate
10 U	UG/L	Toxaphene
0.10 U	UG/L	Chlordene /2
0.10 U	UG/L	gamma-Chlordane /2
0.10 U	UG/L	trans-Nonachlor /2
0.10 U	UG/L	alpha-Chlordane /2
0.10 U	UG/L	cis-Nonachlor /2
0.51 U	UG/L	Methoxychlor
0.30 U	UG/L	Endrin Ketone

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS **EPA - REGION IV SESD, ATHENS, GA** **Production Date: 05/11/2005 14:12**

Sample **3784** FY **2005** Project: **05-0474**

SPECIFIED TESTS

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-MW-17A / VC-MW-17A
Media: GROUNDWATER

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2005 18:50
Ending:

RESULTS	UNITS	ANALYTE
0.10 UJ	UG/L	Atrazine
0.10 U	UG/L	Cyanazine
1.1 J	UG/L	Dinoseb (DNBP)

Results Estimated-QC Limits Exceeded

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 05/11/2005 14:12**

Sample **3785** FY **2005** Project: **05-0474**

Pesticides Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-MW-18A / VC-MW-18A
Media: GROUNDWATER

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/30/2005 08:55
Ending:

RESULTS	UNITS	ANALYTE
0.10 U	UG/L	Aldrin
0.10 U	UG/L	Heptachlor
0.10 U	UG/L	Heptachlor Epoxide
0.10 U	UG/L	alpha-BHC
0.10 U	UG/L	beta-BHC
0.10 U	UG/L	gamma-BHC (Lindane)
0.10 U	UG/L	delta-BHC
0.10 U	UG/L	Endosulfan I (alpha)
0.10 U	UG/L	Dieldrin
0.25 U	UG/L	4,4'-DDT (p,p'-DDT)
0.10 U	UG/L	4,4'-DDE (p,p'-DDE)
0.25 U	UG/L	4,4'-DDD (p,p'-DDD)
0.25 U	UG/L	Endrin
0.25 U	UG/L	Endosulfan II (beta)
0.25 U	UG/L	Endosulfan Sulfate
10 U	UG/L	Toxaphene
0.10 U	UG/L	Chlordene /2
0.10 U	UG/L	gamma-Chlordane /2
0.10 U	UG/L	trans-Nonachlor /2
0.10 U	UG/L	alpha-Chlordane /2
0.10 U	UG/L	cis-Nonachlor /2
0.50 U	UG/L	Methoxychlor
0.25 U	UG/L	Endrin Ketone

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 05/11/2005 14:12**

Sample **3785** FY **2005** Project: **05-0474**

SPECIFIED TESTS

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-MW-18A / VC-MW-18A
Media: GROUNDWATER

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/30/2005 08:55
Ending:

RESULTS	UNITS	ANALYTE
0.10 UJ	UG/L	Atrazine
0.10 U	UG/L	Cyanazine
0.042 J	UG/L	Dinoseb (DNBP)

Results Estimated-QC Limits Exceeded

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 05/11/2005 14:12**

Sample **3786** FY **2005** Project: **05-0474**

Pesticides Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-MW-4 / VC-MW-4
Media: GROUNDWATER

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2000 14:45
Ending:

RESULTS	UNITS	ANALYTE
0.098 UJ	UG/L	Aldrin
0.098 UJ	UG/L	Heptachlor
0.098 UJ	UG/L	Heptachlor Epoxide
0.098 UJ	UG/L	alpha-BHC
0.098 UJ	UG/L	beta-BHC
0.098 UJ	UG/L	gamma-BHC (Lindane)
0.11 UJ	UG/L	delta-BHC
0.098 UJ	UG/L	Endosulfan I (alpha)
0.098 UJ	UG/L	Dieldrin
0.24 UJ	UG/L	4,4'-DDT (p,p'-DDT)
0.098 UJ	UG/L	4,4'-DDE (p,p'-DDE)
0.24 UJ	UG/L	4,4'-DDD (p,p'-DDD)
0.24 UJ	UG/L	Endrin
0.24 UJ	UG/L	Endosulfan II (beta)
0.24 UJ	UG/L	Endosulfan Sulfate
9.8 UJ	UG/L	Toxaphene
0.098 UJ	UG/L	Chlordene /2
0.098 UJ	UG/L	gamma-Chlordane /2
0.098 UJ	UG/L	trans-Nonachlor /2
0.098 UJ	UG/L	alpha-Chlordane /2
0.098 UJ	UG/L	cis-Nonachlor /2
0.49 UJ	UG/L	Methoxychlor
0.28 UJ	UG/L	Endrin Ketone

Recommended Holding Time Exceeded:
MS QC not met for Endrin

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 05/11/2005 14:12**

Sample **3786** FY **2005** Project: **05-0474**

SPECIFIED TESTS

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-MW-4 / VC-MW-4
Media: GROUNDWATER

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/29/2000 14:45
Ending:

RESULTS	UNITS	ANALYTE
0.042 J	UG/L	Atrazine
0.10 U	UG/L	Cyanazine
0.10 J	UG/L	Dinoseb (DNBP)

Results Estimated-QC Limits Exceeded

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 05/11/2005 14:12**

Sample **3787** FY **2005** Project: **05-0474**

Pesticides Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-MW-11 / VC-MW-11
Media: GROUNDWATER

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/31/2005 16:45
Ending:

RESULTS	UNITS	ANALYTE
0.10 U	UG/L	Aldrin
0.10 U	UG/L	Heptachlor
0.10 U	UG/L	Heptachlor Epoxide
0.10 U	UG/L	alpha-BHC
0.10 U	UG/L	beta-BHC
0.10 U	UG/L	gamma-BHC (Lindane)
0.10 U	UG/L	delta-BHC
0.10 U	UG/L	Endosulfan I (alpha)
0.10 U	UG/L	Dieldrin
0.25 U	UG/L	4,4'-DDT (p,p'-DDT)
0.10 U	UG/L	4,4'-DDE (p,p'-DDE)
0.25 U	UG/L	4,4'-DDD (p,p'-DDD)
0.25 U	UG/L	Endrin
0.25 U	UG/L	Endosulfan II (beta)
0.29 U	UG/L	Endosulfan Sulfate
10 U	UG/L	Toxaphene
0.10 U	UG/L	Chlordene /2
0.10 U	UG/L	gamma-Chlordane /2
0.10 U	UG/L	trans-Nonachlor /2
0.10 U	UG/L	alpha-Chlordane /2
0.10 U	UG/L	cis-Nonachlor /2
0.50 U	UG/L	Methoxychlor
0.25 U	UG/L	Endrin Ketone

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS **EPA - REGION IV SESD, ATHENS, GA** **Production Date: 05/11/2005 14:12**

Sample **3787** FY **2005** Project: **05-0474**

SPECIFIED TESTS

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-MW-11 / VC-MW-11
Media: GROUNDWATER

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/31/2005 16:45
Ending:

RESULTS	UNITS	ANALYTE
0.10 UJ	UG/L	Atrazine
0.10 U	UG/L	Cyanazine
5.9 J	UG/L	Dinoseb (DNBP)

Results Estimated-QC Limits Exceeded

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 05/11/2005 14:12**

Sample **3788** FY **2005** Project: **05-0474**

Pesticides Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-PZ-22B / VC-PZ-22B
Media: GROUNDWATER

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/31/2005 16:10
Ending:

RESULTS	UNITS	ANALYTE
0.10 U	UG/L	Aldrin
0.10 U	UG/L	Heptachlor
0.10 U	UG/L	Heptachlor Epoxide
0.10 U	UG/L	alpha-BHC
0.10 U	UG/L	beta-BHC
0.10 U	UG/L	gamma-BHC (Lindane)
0.12 U	UG/L	delta-BHC
0.10 U	UG/L	Endosulfan I (alpha)
0.10 U	UG/L	Dieldrin
0.25 U	UG/L	4,4'-DDT (p,p'-DDT)
0.10 U	UG/L	4,4'-DDE (p,p'-DDE)
0.25 U	UG/L	4,4'-DDD (p,p'-DDD)
0.25 U	UG/L	Endrin
0.25 U	UG/L	Endosulfan II (beta)
0.29 U	UG/L	Endosulfan Sulfate
10 U	UG/L	Toxaphene
0.10 U	UG/L	Chlordene /2
0.10 U	UG/L	gamma-Chlordane /2
0.10 U	UG/L	trans-Nonachlor /2
0.10 U	UG/L	alpha-Chlordane /2
0.10 U	UG/L	cis-Nonachlor /2
0.50 U	UG/L	Methoxychlor
0.25 U	UG/L	Endrin Ketone

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS **EPA - REGION IV SESD, ATHENS, GA** **Production Date: 05/11/2005 14:12**

Sample **3788** FY **2005** Project: **05-0474**

SPECIFIED TESTS

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-PZ-22B / VC-PZ-22B
Media: GROUNDWATER

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/31/2005 16:10
Ending:

RESULTS	UNITS	ANALYTE
0.10 UJ	UG/L	Atrazine
0.10 U	UG/L	Cyanazine
0.25 UJ	UG/L	Dinoseb (DNBP)

Results Estimated-QC Limits Exceeded

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 05/11/2005 14:12**

Sample **3789** FY **2005** Project: **05-0474**

Pesticides Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-PZ-25B / VC-PZ-25B
Media: GROUNDWATER

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/31/2005 15:45
Ending:

RESULTS	UNITS	ANALYTE
0.098 U	UG/L	Aldrin
0.098 U	UG/L	Heptachlor
0.098 U	UG/L	Heptachlor Epoxide
0.098 U	UG/L	alpha-BHC
0.098 U	UG/L	beta-BHC
0.098 U	UG/L	gamma-BHC (Lindane)
0.098 U	UG/L	delta-BHC
0.098 U	UG/L	Endosulfan I (alpha)
0.098 U	UG/L	Dieldrin
0.24 U	UG/L	4,4'-DDT (p,p'-DDT)
0.098 U	UG/L	4,4'-DDE (p,p'-DDE)
0.24 U	UG/L	4,4'-DDD (p,p'-DDD)
0.24 U	UG/L	Endrin
0.24 U	UG/L	Endosulfan II (beta)
0.24 U	UG/L	Endosulfan Sulfate
9.8 U	UG/L	Toxaphene
0.098 U	UG/L	Chlordene /2
0.098 U	UG/L	gamma-Chlordane /2
0.098 U	UG/L	trans-Nonachlor /2
0.098 U	UG/L	alpha-Chlordane /2
0.098 U	UG/L	cis-Nonachlor /2
0.49 U	UG/L	Methoxychlor
0.24 U	UG/L	Endrin Ketone

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 05/11/2005 14:12**

Sample **3789** FY **2005** Project: **05-0474**

SPECIFIED TESTS

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-PZ-25B / VC-PZ-25B
Media: GROUNDWATER

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/31/2005 15:45
Ending:

RESULTS	UNITS	ANALYTE
0.10 U	UG/L	Atrazine
0.10 U	UG/L	Cyanazine
0.25 UJ	UG/L	Dinoseb (DNBP)

Results Estimated-QC Limits Exceeded

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 05/11/2005 14:12**

Sample **3800** FY **2005** Project: **05-0474**

Pesticides Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-PZ-21A / VC-PZ-21A
Media: GROUNDWATER

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 04/01/2005 14:50
Ending:

RESULTS	UNITS	ANALYTE
0.097 U	UG/L	Aldrin
0.097 U	UG/L	Heptachlor
0.097 U	UG/L	Heptachlor Epoxide
0.097 U	UG/L	alpha-BHC
0.097 U	UG/L	beta-BHC
0.097 U	UG/L	gamma-BHC (Lindane)
0.11 U	UG/L	delta-BHC
0.097 U	UG/L	Endosulfan I (alpha)
0.097 U	UG/L	Dieldrin
0.24 U	UG/L	4,4'-DDT (p,p'-DDT)
0.097 U	UG/L	4,4'-DDE (p,p'-DDE)
0.24 U	UG/L	4,4'-DDD (p,p'-DDD)
0.24 U	UG/L	Endrin
0.24 U	UG/L	Endosulfan II (beta)
0.24 U	UG/L	Endosulfan Sulfate
9.7 U	UG/L	Toxaphene
0.097 U	UG/L	Chlordene /2
0.097 U	UG/L	gamma-Chlordane /2
0.097 U	UG/L	trans-Nonachlor /2
0.097 U	UG/L	alpha-Chlordane /2
0.097 U	UG/L	cis-Nonachlor /2
0.49 U	UG/L	Methoxychlor
0.28 U	UG/L	Endrin Ketone

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 05/11/2005 14:12**

Sample **3800** FY **2005** Project: **05-0474**

SPECIFIED TESTS

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-PZ-21A / VC-PZ-21A
Media: GROUNDWATER

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 04/01/2005 14:50
Ending:

RESULTS	UNITS	ANALYTE
0.10 U	UG/L	Atrazine
0.10 U	UG/L	Cyanazine
0.25 UJ	UG/L	Dinoseb (DNBP)

Results Estimated-QC Limits Exceeded

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 05/11/2005 14:12**

Sample **3801** FY **2005** Project: **05-0474**

Pesticides Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-PZ-26A / VC-PZ-26A
Media: GROUNDWATER

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 04/02/2005 08:40
Ending:

RESULTS	UNITS	ANALYTE
0.10 U	UG/L	Aldrin
0.10 U	UG/L	Heptachlor
0.10 U	UG/L	Heptachlor Epoxide
0.10 U	UG/L	alpha-BHC
0.10 U	UG/L	beta-BHC
0.10 U	UG/L	gamma-BHC (Lindane)
0.10 U	UG/L	delta-BHC
0.10 U	UG/L	Endosulfan I (alpha)
0.10 U	UG/L	Dieldrin
0.26 U	UG/L	4,4'-DDT (p,p'-DDT)
0.10 U	UG/L	4,4'-DDE (p,p'-DDE)
0.05 U	UG/L	4,4'-DDD (p,p'-DDD)
0.25 U	UG/L	Endrin
0.25 U	UG/L	Endosulfan II (beta)
0.25 U	UG/L	Endosulfan Sulfate
10 U	UG/L	Toxaphene
0.10 U	UG/L	Chlordene /2
0.10 U	UG/L	gamma-Chlordane /2
0.10 U	UG/L	trans-Nonachlor /2
0.10 U	UG/L	alpha-Chlordane /2
0.10 U	UG/L	cis-Nonachlor /2
0.50 U	UG/L	Methoxychlor
0.25 U	UG/L	Endrin Ketone

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 05/11/2005 14:12**

Sample **3801** FY **2005** Project: **05-0474**

SPECIFIED TESTS

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-PZ-26A / VC-PZ-26A
Media: GROUNDWATER

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 04/02/2005 08:40
Ending:

RESULTS	UNITS	ANALYTE
0.10 U	UG/L	Atrazine
0.10 U	UG/L	Cyanazine
0.25 UJ	UG/L	Dinoseb (DNBP)

Results Estimated-QC Limits Exceeded

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 05/11/2005 14:12**

Sample **3802** FY **2005** Project: **05-0474**

Pesticides Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-RB-01 / VC-RB-01
Media: EQUIPMENT RINSE BLANK

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 04/02/2005 09:45
Ending:

RESULTS	UNITS	ANALYTE
0.098 U	UG/L	Aldrin
0.098 U	UG/L	Heptachlor
0.098 U	UG/L	Heptachlor Epoxide
0.098 U	UG/L	alpha-BHC
0.098 U	UG/L	beta-BHC
0.098 U	UG/L	gamma-BHC (Lindane)
0.098 U	UG/L	delta-BHC
0.098 U	UG/L	Endosulfan I (alpha)
0.098 U	UG/L	Dieldrin
0.25 U	UG/L	4,4'-DDT (p,p'-DDT)
0.098 U	UG/L	4,4'-DDE (p,p'-DDE)
0.25 U	UG/L	4,4'-DDD (p,p'-DDD)
0.25 U	UG/L	Endrin
0.25 U	UG/L	Endosulfan II (beta)
0.25 U	UG/L	Endosulfan Sulfate
9.8 U	UG/L	Toxaphene
0.098 U	UG/L	Chlordene /2
0.098 U	UG/L	gamma-Chlordane /2
0.098 U	UG/L	trans-Nonachlor /2
0.098 U	UG/L	alpha-Chlordane /2
0.098 U	UG/L	cis-Nonachlor /2
0.49 U	UG/L	Methoxychlor
0.25 U	UG/L	Endrin Ketone

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS **EPA - REGION IV SESD, ATHENS, GA** **Production Date: 05/11/2005 14:12**

Sample **3802** FY **2005** Project: **05-0474**

SPECIFIED TESTS

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-RB-01 / VC-RB-01
Media: EQUIPMENT RINSE BLANK

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 04/02/2005 09:45
Ending:

RESULTS	UNITS	ANALYTE
0.10 U	UG/L	Atrazine
0.10 U	UG/L	Cyanazine
0.25 UJ	UG/L	Dinoseb (DNBP)

Results Estimated-QC Limits Exceeded

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 05/11/2005 14:12**

Sample **3803** FY **2005** Project: **05-0474**

Pesticides Scan

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-MW-14 / VC-MW-14
Media: GROUNDWATER

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/31/2005 12:10
Ending:

RESULTS	UNITS	ANALYTE
0.11 UJ	UG/L	Aldrin
0.11 UJ	UG/L	Heptachlor
0.11 UJ	UG/L	Heptachlor Epoxide
0.11 UJ	UG/L	alpha-BHC
0.11 UJ	UG/L	beta-BHC
0.11 UJ	UG/L	gamma-BHC (Lindane)
0.11 UJ	UG/L	delta-BHC
0.11 UJ	UG/L	Endosulfan I (alpha)
0.11 UJ	UG/L	Dieldrin
0.27 UJ	UG/L	4,4'-DDT (p,p'-DDT)
0.11 UJ	UG/L	4,4'-DDE (p,p'-DDE)
0.27 UJ	UG/L	4,4'-DDD (p,p'-DDD)
0.29 UJ	UG/L	Endrin
0.27 UJ	UG/L	Endosulfan II (beta)
0.27 UJ	UG/L	Endosulfan Sulfate
11 UJ	UG/L	Toxaphene
0.11 UJ	UG/L	Chlordene /2
0.11 UJ	UG/L	gamma-Chlordane /2
0.11 UJ	UG/L	trans-Nonachlor /2
0.11 UJ	UG/L	alpha-Chlordane /2
0.11 UJ	UG/L	cis-Nonachlor /2
0.54 UJ	UG/L	Methoxychlor
0.27 UJ	UG/L	Endrin Ketone

Recommended Holding Time Exceeded:

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

Sample **3803** FY **2005** Project: **05-0474**

SPECIFIED TESTS

Facility: Vicksburg Chemical Vicksburg, MS
Program: RCRP
Id/Station: VC-MW-14 / VC-MW-14
Media: GROUNDWATER

Produced by: Sivertsen, Scott
Requestor:
Project Leader: AMASTERS
Beginning: 03/31/2005 12:10
Ending:

RESULTS	UNITS	ANALYTE
0.10 UJ	UG/L	Atrazine
0.10 UJ	UG/L	Cyanazine
0.25 UJ	UG/L	Dinoseb (DNBP)

Results Estimated-QC Limits Exceeded
Recommended Holding Time Exceeded: for atrazine and cyanazine

U-Analyte not detected at or above reporting limit. | J-Identification of analyte is acceptable; reported value is an estimate. | UJ-Analyte not detected at or above reporting limit. Reporting limit is an estimate.
N-Presumptive evidence analyte is present; analyte reported as tentative identification. | NJ-Presumptive evidence analyte is present; analyte reported as tentative identification. Reported value is an estimate.
K-Identification of analyte is acceptable; reported value may be biased high. Actual value expected to be less than the reported value.
L-Identification of analyte is acceptable; reported value may be biased low. Actual value expected to be greater than reported value.
NA-Not Analyzed. | NAI-Not Analyzed due to Interferences. | A-Analyte analyzed in replicate. Reported value is "average" of replicates.
R-Presence or absence of analyte can not be determined from data due to severe quality control problems. Data are rejected and considered unusable.
C-confirmed by GCMS | /1-when no value is reported, see chlordane constituents | /2-constituents or metabolites of technical chlordane

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Appendix E

Baseline and Remedial Site
Conceptual Exposure Models

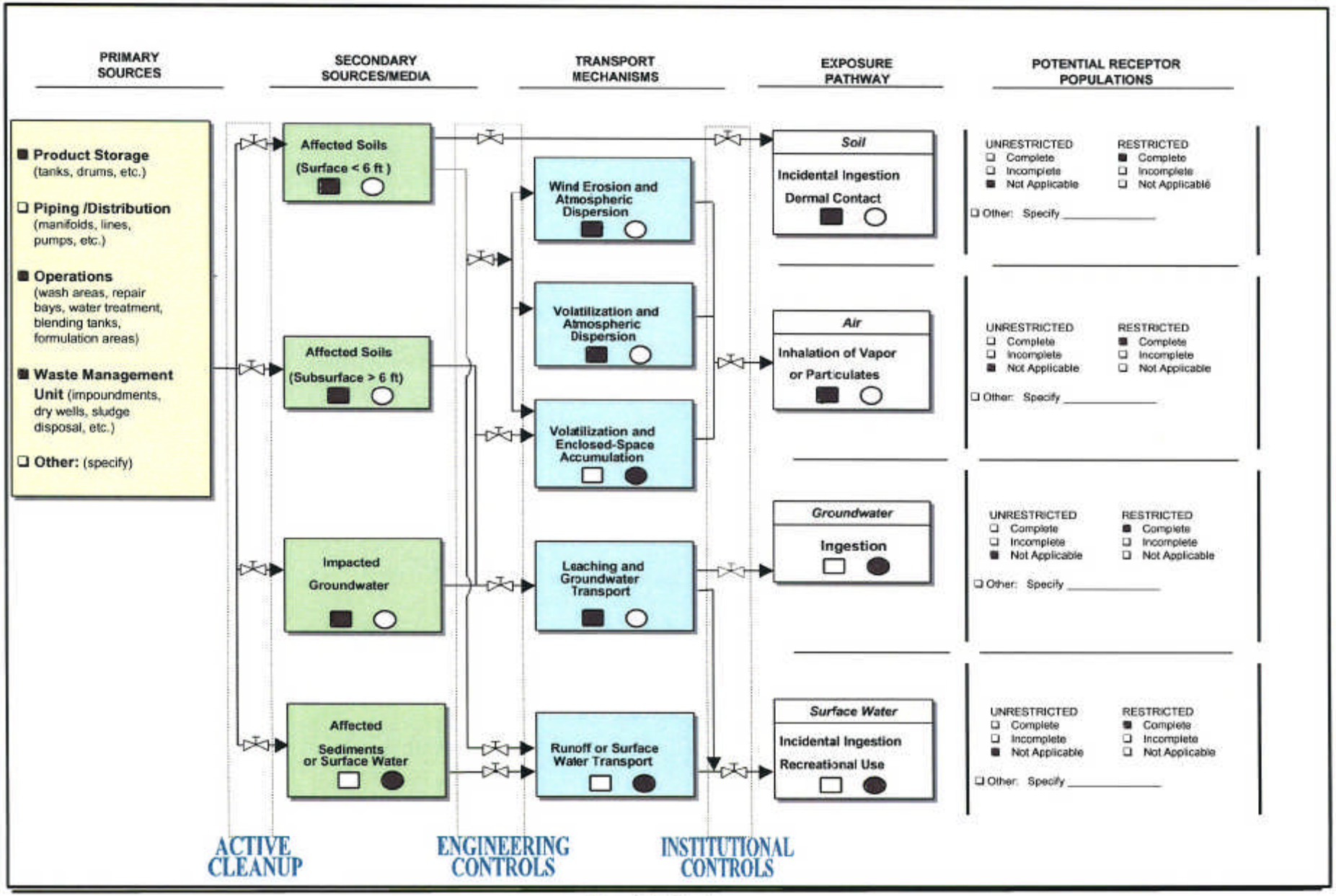
Worksheet

Baseline Site Conceptual Exposure Model (SCEM)

Site Name: Former Vicksburg Chemical Company
Site Location: Vicksburg, Mississippi

Completed By: CAD and LWF
Revision Date:

☐ Complete ○ Potentially Complete ■ Draft ☐ Final



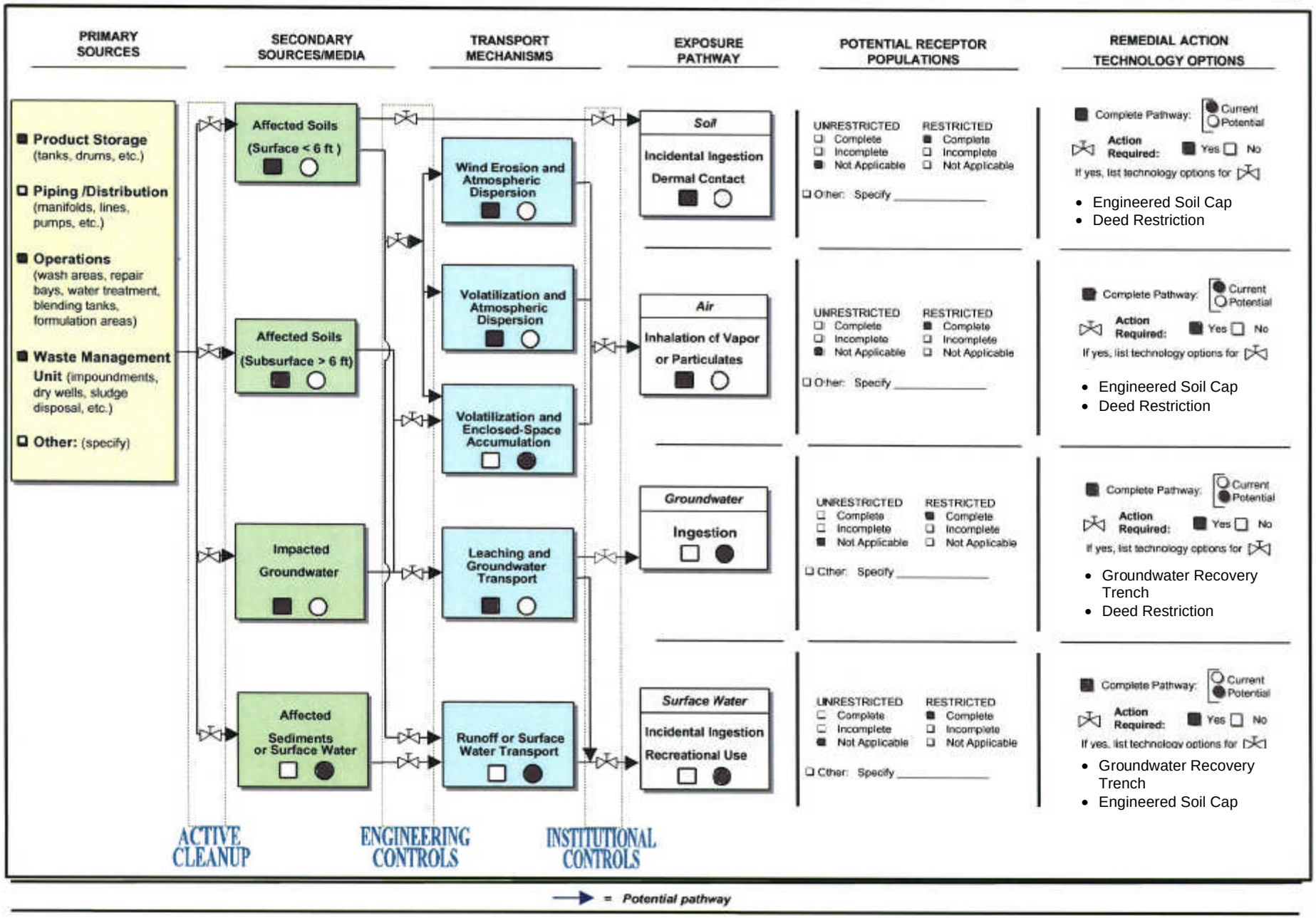
Worksheet

Remedial Site Conceptual Exposure Model (SCEM)

Site Name: Former Vicksburg Chemical Company
Site Location: Vicksburg, Mississippi

Completed By: CAD and LWF
Revision Date:

☐ Complete ○ Potentially Complete ■ Draft ☐ Final



ARCADIS

Appendix F

Data Validation Reports and Laboratory Results

Pace Analytical®
New Orleans Laboratory

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

March 08, 2007

Craig Derouen
Arcadis Geraghty & Miller
10352 Plaza Americana Drive
Baton Rouge, LA 70816

RE: Project: 2066418
RE: Project ID: MS BLUFFS/LA002656.0001.00013

Dear Craig Derouen:

Enclosed are the analytical results for sample(s) received by the laboratory on January 31, 2007. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Cindy Olavesen

Cindy Olavesen

ACCREDITED IN ACCORDANCE WITH nelac

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, execpt in full, without the written consent of Pace Analytical Services, Inc.

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Pace Analytical®
New Orleans Laboratory

Report of Laboratory Analysis

Project Number: 2066418

ACCREDITED IN ACCORDANCE WITH nelac

3/8/2007 10:31:40

Pace Analytical®
New Orleans Laboratory

Sample Cross Reference Report

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.0001.00013

Project No.: 2066418

Sample ID	Lab ID	Matrix	Collection Date/Time		Received Date/Time	
MW-5 (013007)	20499165	Water	01/30/2007	12:06	01/31/2007	16:20
MW-6 (013007)	20499166	Water	01/30/2007	11:17	01/31/2007	16:20
MW-2 (013007)	20499167	Water	01/30/2007	15:35	01/31/2007	16:20
MW-7 (013007)	20499168	Water	01/30/2007	10:50	01/31/2007	16:20
MW-5 (013007)	20499169	Water	01/30/2007	13:35	01/31/2007	16:20
TB-01 (013007)	20499170	Water	01/30/2007		01/31/2007	16:20
PZ-12A (013107)	20499245	Water	01/31/2007	11:08	02/01/2007	09:00
PZ-12A (013107)MS	20499245	Water	01/31/2007	11:08	02/01/2007	09:00
PZ-12A (013107)MSD	20499245	Water	01/31/2007	11:08	02/01/2007	09:00
PZ-12B (013107)	20499246	Water	01/31/2007	11:27	02/01/2007	09:00
PZ-20A (013107)	20499247	Water	01/31/2007	12:05	02/01/2007	09:00
PZ-20B (013107)	20499248	Water	01/31/2007	12:17	02/01/2007	09:00
DUP-01 (013107)	20499249	Water	01/31/2007		02/01/2007	09:00
TB-02 (013107)	20499252	Water	01/31/2007		02/01/2007	09:00
FB-01 (013107)	20499253	Water	01/31/2007	14:40	02/01/2007	09:00
SPUW (013107)	20499254	Water	01/31/2007	10:40	02/01/2007	09:00
MW-4 (020107)	20499589	Water	02/01/2007	08:48	02/02/2007	18:20
PZ-21A (020107)	20499590	Water	02/01/2007	09:30	02/02/2007	18:20
PZ-23A (020107)	20499591	Water	02/01/2007	10:30	02/02/2007	18:20
PZ-24B (020107)	20499592	Water	02/01/2007	11:15	02/02/2007	18:20
TB-03	20499709	Water	02/01/2007		02/02/2007	18:20

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Project Narrative

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: **2066418**

Narrative detail for GC semi-volatilves analyses:

Several of the herbicide continuing calibrations were high biased for dinoseb.

Sample data associated with these calibrations were only reported if there was no hit for dinoseb.

Sample 20499248 was re-extracted due to low surrogate recoveries. The re-extraction was performed outside the holding time limit.

Surrogate recoveries for the re-analysis were within QC limits. There was no Dinoseb detected in either analysis.

Dinoseb is a poor performer by this method; QC recovery data may be poor or erratic as demonstrated by performance-based statistical evaluation.

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Project: **2066418**

Sample Receipt Condition:

All samples were received in accordance with EPA protocol.

Holding Times:

All holding times were met.

Blanks:

The following blank results were above reporting limits:

Batch 81996 sample 20499945 Acetone

Batch 81996 sample 20500537 Acetone

Laboratory Control Samples:

LCS recoveries outside of QC limits are qualified in the Report of Quality Control section.

Matrix Spikes and Duplicates:

MS or MSD recoveries outside of QC limits are qualified in the Report of Quality Control section.

Surrogates:

Surrogate recoveries outside of QC limits are qualified in the surrogate results section.

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Project: 2066418

Analytical Method	Batch	Sample used for QC
EPA 8151	81945	Batch sample from another client
EPA 8151	81946	Project sample PZ-12A (013107)
EPA 8081	82037	Project sample PZ-12A (013107)
EPA 6010	81950	Project sample PZ-12A (013107)
EPA 6010	81961	Project sample PZ-12A (013107)
EPA 8270	81846	Batch sample from another client
EPA 8270	81863	Project sample PZ-12A (013107)
EPA 8260	81894	Project sample PZ-12A (013107)
EPA 8260	81944	Batch sample from another client
EPA 8260	81996	Client sample SW-11 from project 2066467

For the sample used as the original for the DUP or MS/MSD for the batch:

Project sample means a sample from this project was used.
Client sample means a sample from the same client but in a different project was used.
Batch sample means a sample from the a different client was used.

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-5 (013007) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499165 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81846

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 01/30/07 **Received:** 01/31/07

Prep Factor: 1 **Prepared:** 02/01/07 **Analyzed:** 02/02/07 18:29 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-6 (013007) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499166 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81894

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 01/30/07 **Received:** 01/31/07

Prep Factor: 1 **Prepared:** 02/02/07 **Analyzed:** 02/02/07 17:42 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	8.92		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-6 (013007) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499166 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81894

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 01/30/07 **Received:** 01/31/07

Prep Factor: 1 **Prepared:** 02/02/07 **Analyzed:** 02/02/07 17:42 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	ND	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-6 (013007) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499166 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81846

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 01/30/07 **Received:** 01/31/07

Prep Factor: 1 **Prepared:** 02/01/07 **Analyzed:** 02/02/07 18:56 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: MW-2 (013007) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499167 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81894

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 01/30/07 **Received:** 01/31/07

Prep Factor: 1 **Prepared:** 02/02/07 **Analyzed:** 02/02/07 18:04 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-2 (013007) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499167 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81894

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 01/30/07 **Received:** 01/31/07

Prep Factor: 1 **Prepared:** 02/02/07 **Analyzed:** 02/02/07 18:04 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	ND	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

3/8/2007 10:32:17

ND denotes Not Detected at or above the adjusted reporting limit.
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Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health .Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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New Orleans Laboratory

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-2 (013007) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499167 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81846

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 01/30/07 **Received:** 01/31/07

Prep Factor: 1 **Prepared:** 02/01/07 **Analyzed:** 02/02/07 19:23 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	10.6		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

3/8/2007 10:32:18

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-7 (013007) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499168 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81894

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 01/30/07 **Received:** 01/31/07

Prep Factor: 1 **Prepared:** 02/02/07 **Analyzed:** 02/02/07 18:26 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

ND denotes Not Detected at or above the adjusted reporting limit.
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3/8/2007 10:32:18

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Report of Laboratory Analysis

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1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-7 (013007) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499168 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81894

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 01/30/07 **Received:** 01/31/07

Prep Factor: 1 **Prepared:** 02/02/07 **Analyzed:** 02/02/07 18:26 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	ND	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

3/8/2007 10:32:18

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1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-7 (013007) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499168 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81846

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 01/30/07 **Received:** 01/31/07

Prep Factor: 1 **Prepared:** 02/01/07 **Analyzed:** 02/02/07 19:51 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-5 (013007) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499169 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81894

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 01/30/07 **Received:** 01/31/07

Prep Factor: 1 **Prepared:** 02/02/07 **Analyzed:** 02/02/07 18:49 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-5 (013007) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499169 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81894

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 01/30/07 **Received:** 01/31/07

Prep Factor: 1 **Prepared:** 02/02/07 **Analyzed:** 02/02/07 18:49 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	ND	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

3/8/2007 10:32:18

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: TB-01 (013007) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499170 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81894

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 01/30/07 **Received:** 01/31/07

Prep Factor: 1 **Prepared:** 02/02/07 **Analyzed:** 02/02/07 19:11 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: TB-01 (013007) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499170 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81894

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 01/30/07 **Received:** 01/31/07

Prep Factor: 1 **Prepared:** 02/02/07 **Analyzed:** 02/02/07 19:11 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	1.79	J A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-12A (013107) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499245 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81894

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 01/31/07 **Received:** 02/01/07

Prep Factor: 1 **Prepared:** 02/02/07 **Analyzed:** 02/02/07 19:33 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-12A (013107) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499245 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81894

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 01/31/07 **Received:** 02/01/07

Prep Factor: 1 **Prepared:** 02/02/07 **Analyzed:** 02/02/07 19:33 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	ND	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-12A (013107) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499245 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81863

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 01/31/07 **Received:** 02/01/07

Prep Factor: 1 **Prepared:** 02/02/07 **Analyzed:** 02/05/07 14:42 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-12A (013107)MS
Site: None
Project: MS BLUFFS/LA002656.0001.00013
Project No.: 2066418
Sample Qu:
Lab ID: 20499245MS
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 81894
Method: 8260 VOAs Water MS
Units: ug/L
Target List: 8260 MWL20
Collected: 01/31/07
Received: 02/01/07
Prep Factor: 1
Prepared: 02/02/07
Analyzed: 02/02/07 19:56 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	59.2	A11	5.90	10.0	
75-05-8	Acetonitrile	1	580.		12.5	100.	
107-02-8	Acrolein	1	80.7		9.10	20.0	
107-13-1	Acrylonitrile	1	131.		4.90	20.0	
107-05-1	Allyl chloride	1	74.6		1.56	10.0	
71-43-2	Benzene	1	40.7		0.117	5.00	
75-27-4	Bromodichloromethane	1	49.6		0.206	5.00	
75-25-2	Bromoform	1	63.4		0.259	5.00	
74-83-9	Bromomethane	1	36.8		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	52.8	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	32.5		0.257	5.00	
56-23-5	Carbon tetrachloride	1	46.6		0.592	5.00	
108-90-7	Chlorobenzene	1	51.6		0.119	5.00	
75-00-3	Chloroethane	1	34.9		0.647	5.00	
67-66-3	Chloroform	1	47.6		0.479	5.00	
74-87-3	Chloromethane	1	21.7		0.305	5.00	
126-99-8	Chloroprene	1	40.5		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	69.0		1.22	5.00	
124-48-1	Dibromochloromethane	1	60.0		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	64.7		0.669	5.00	
74-95-3	Dibromomethane	1	54.1		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	123.		1.86	5.00	
75-34-3	1,1-Dichloroethane	1	40.3		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	54.5		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	40.1		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	42.4		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	42.9		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	49.1		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	55.1		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	1491		16.8	250.	
100-41-4	Ethylbenzene	1	46.3		0.119	5.00	
97-63-2	Ethyl methacrylate	1	120.		0.475	10.0	
591-78-6	2-Hexanone	1	61.9		0.468	10.0	

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Client: Arcadis Geraghty & Miller

Client ID: PZ-12A (013107)MS
Site: None
Project: MS BLUFFS/LA002656.0001.00013
Project No.: 2066418
Sample Qu:
Lab ID: 20499245MS
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 81894
Method: 8260 VOAs Water MS
Units: ug/L
Target List: 8260 MWL20
Collected: 01/31/07
Received: 02/01/07
Prep Factor: 1
Prepared: 02/02/07
Analyzed: 02/02/07 19:56 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
74-88-4	Iodomethane	1	43.6		0.621	5.00	
78-83-1	Isobutanol	1	1026		18.7	250.	
126-98-7	Methacrylonitrile	1	588.		16.2	100.	
75-09-2	Methylene chloride	1	57.8	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	118.		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	60.1		0.872	10.0	
107-12-0	Propionitrile	1	627.		6.35	20.0	
100-42-5	Styrene	1	53.2		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	55.8		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	65.0		0.238	5.00	
127-18-4	Tetrachloroethene	1	45.4		0.162	5.00	
108-88-3	Toluene	1	43.9		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	42.4		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	57.1		0.328	5.00	
79-01-6	Trichloroethene	1	46.5		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	37.0		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	72.7		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	49.9		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	46.5		0.0614	5.00	
108-05-4	Vinyl acetate	1	108.		0.686	10.0	
75-01-4	Vinyl chloride	1	24.5		0.463	5.00	
	m&p-Xylene	1	97.1		0.151	5.00	
95-47-6	o-Xylene	1	49.6		0.142	5.00	

56 compound(s) reported

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New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health .Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-12A (013107)MS
Site: None
Project: MS BLUFFS/LA002656.0001.00013
Project No.: 2066418
Sample Qu:
Lab ID: 20499245MS
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 81863
Method: 8270 SVOAs Water MS
Units: ug/L
Target List: 8270 MWL20
Collected: 01/31/07
Received: 02/01/07
Prep Factor: 1
Prepared: 02/02/07
Analyzed: 02/05/07 13:48 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
117-81-7	bis(2-Ethylhexyl)phthalate	1	35.8		8.62	10.0	
100-02-7	4-Nitrophenol	1	31.1		1.33	10.0	
87-86-5	Pentachlorophenol	1	23.7		1.37	10.0	

3 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-12A (013107)MSD
Site: None
Project: MS BLUFFS/LA002656.0001.00013
Project No.: 2066418
Sample Qu:
Lab ID: 20499245MSD
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 81894
Method: 8260 VOAs Water MS
Units: ug/L
Target List: 8260 MWL20
Collected: 01/31/07
Received: 02/01/07
Prep Factor: 1
Prepared: 02/02/07
Analyzed: 02/02/07 20:18 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	67.9	A11	5.90	10.0	
75-05-8	Acetonitrile	1	599.		12.5	100.	
107-02-8	Acrolein	1	83.3		9.10	20.0	
107-13-1	Acrylonitrile	1	140.		4.90	20.0	
107-05-1	Allyl chloride	1	80.9		1.56	10.0	
71-43-2	Benzene	1	43.1		0.117	5.00	
75-27-4	Bromodichloromethane	1	52.3		0.206	5.00	
75-25-2	Bromoform	1	63.7		0.259	5.00	
74-83-9	Bromomethane	1	35.7		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	56.0	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	35.1		0.257	5.00	
56-23-5	Carbon tetrachloride	1	48.0		0.592	5.00	
108-90-7	Chlorobenzene	1	53.4		0.119	5.00	
75-00-3	Chloroethane	1	34.1		0.647	5.00	
67-66-3	Chloroform	1	51.2		0.479	5.00	
74-87-3	Chloromethane	1	24.3		0.305	5.00	
126-99-8	Chloroprene	1	43.4		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	73.1		1.22	5.00	
124-48-1	Dibromochloromethane	1	61.3		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	66.8		0.669	5.00	
74-95-3	Dibromomethane	1	58.0		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	124.		1.86	5.00	
75-34-3	1,1-Dichloroethane	1	43.6		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	56.3		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	43.3		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	44.8		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	44.7		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	51.0		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	55.8		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	1538		16.8	250.	
100-41-4	Ethylbenzene	1	47.4		0.119	5.00	
97-63-2	Ethyl methacrylate	1	122.		0.475	10.0	
591-78-6	2-Hexanone	1	64.9		0.468	10.0	

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-12A (013107)MSD
Site: None
Project: MS BLUFFS/LA002656.0001.00013
Project No.: 2066418
Sample Qu:
Lab ID: 20499245MSD
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 81894
Method: 8260 VOAs Water MS
Units: ug/L
Target List: 8260 MWL20
Collected: 01/31/07
Received: 02/01/07
Prep Factor: 1
Prepared: 02/02/07
Analyzed: 02/02/07 20:18 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
74-88-4	Iodomethane	1	47.0		0.621	5.00	
78-83-1	Isobutanol	1	1092		18.7	250.	
126-98-7	Methacrylonitrile	1	630.		16.2	100.	
75-09-2	Methylene chloride	1	63.4	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	125.		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	63.0		0.872	10.0	
107-12-0	Propionitrile	1	636.		6.35	20.0	
100-42-5	Styrene	1	55.6		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	58.1		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	65.7		0.238	5.00	
127-18-4	Tetrachloroethene	1	47.1		0.162	5.00	
108-88-3	Toluene	1	45.6		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	45.4		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	58.9		0.328	5.00	
79-01-6	Trichloroethene	1	48.5		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	38.7		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	73.0		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	50.9		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	48.2		0.0614	5.00	
108-05-4	Vinyl acetate	1	115.		0.686	10.0	
75-01-4	Vinyl chloride	1	30.2		0.463	5.00	
	m&p-Xylene	1	99.2		0.151	5.00	
95-47-6	o-Xylene	1	50.9		0.142	5.00	

56 compound(s) reported

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-12A (013107)MSD
Site: None
Project: MS BLUFFS/LA002656.0001.00013
Project No.: 2066418
Sample Qu:
Lab ID: 20499245MSD
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 81863
Method: 8270 SVOAs Water MS
Units: ug/L
Target List: 8270 MWL20
Collected: 01/31/07
Received: 02/01/07
Prep Factor: 1
Prepared: 02/02/07
Analyzed: 02/05/07 14:14 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
117-81-7	bis(2-Ethylhexyl)phthalate	1	35.2		8.62	10.0	
100-02-7	4-Nitrophenol	1	32.0		1.33	10.0	
87-86-5	Pentachlorophenol	1	23.9		1.37	10.0	

3 compound(s) reported

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-12B (013107) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499246 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81894

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 01/31/07 **Received:** 02/01/07

Prep Factor: 1 **Prepared:** 02/02/07 **Analyzed:** 02/02/07 20:40 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

3/8/2007 10:32:20

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-12B (013107) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499246 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81894

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 01/31/07 **Received:** 02/01/07

Prep Factor: 1 **Prepared:** 02/02/07 **Analyzed:** 02/02/07 20:40 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	ND	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

3/8/2007 10:32:21

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-12B (013107) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499246 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81863

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 01/31/07 **Received:** 02/01/07

Prep Factor: 1 **Prepared:** 02/02/07 **Analyzed:** 02/05/07 15:08 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-20A (013107) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499247 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81894

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 01/31/07 **Received:** 02/01/07

Prep Factor: 1 **Prepared:** 02/02/07 **Analyzed:** 02/02/07 21:03 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-20A (013107) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499247 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81894

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 01/31/07 **Received:** 02/01/07

Prep Factor: 1 **Prepared:** 02/02/07 **Analyzed:** 02/02/07 21:03 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	ND	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-20A (013107) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499247 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81863

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 01/31/07 **Received:** 02/01/07

Prep Factor: 1 **Prepared:** 02/02/07 **Analyzed:** 02/05/07 15:35 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-20B (013107) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499248 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81894

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 01/31/07 **Received:** 02/01/07

Prep Factor: 1 **Prepared:** 02/02/07 **Analyzed:** 02/02/07 21:25 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	13.2		0.206	5.00	
75-25-2	Bromoform	1	19.7		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	50	2090	D1	24.0	250.	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	8.63		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	3.17 J		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-20B (013107) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499248 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81894

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 01/31/07 **Received:** 02/01/07

Prep Factor: 1 **Prepared:** 02/02/07 **Analyzed:** 02/02/07 21:25 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	18.5	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-20B (013107) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499248 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81863

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 01/31/07 **Received:** 02/01/07

Prep Factor: 1 **Prepared:** 02/02/07 **Analyzed:** 02/05/07 16:02 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: DUP-01 (013107) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499249 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81894

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 01/31/07 **Received:** 02/01/07

Prep Factor: 1 **Prepared:** 02/02/07 **Analyzed:** 02/02/07 21:48 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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Report of Laboratory Analysis

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1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: DUP-01 (013107) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499249 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81894

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 01/31/07 **Received:** 02/01/07

Prep Factor: 1 **Prepared:** 02/02/07 **Analyzed:** 02/02/07 21:48 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	ND	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: DUP-01 (013107) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499249 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81863

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 01/31/07 **Received:** 02/01/07

Prep Factor: 1 **Prepared:** 02/02/07 **Analyzed:** 02/05/07 16:29 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: TB-02 (013107) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499252 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81894

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 01/31/07 **Received:** 02/01/07

Prep Factor: 1 **Prepared:** 02/02/07 **Analyzed:** 02/02/07 22:10 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: TB-02 (013107) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499252 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81894

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 01/31/07 **Received:** 02/01/07

Prep Factor: 1 **Prepared:** 02/02/07 **Analyzed:** 02/02/07 22:10 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	1.28	J A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: FB-01 (013107) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499253 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81894

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 01/31/07 **Received:** 02/01/07

Prep Factor: 1 **Prepared:** 02/02/07 **Analyzed:** 02/02/07 22:33 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: FB-01 (013107) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499253 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81894

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 01/31/07 **Received:** 02/01/07

Prep Factor: 1 **Prepared:** 02/02/07 **Analyzed:** 02/02/07 22:33 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	ND	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SPUW (013107) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499254 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81894

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 01/31/07 **Received:** 02/01/07

Prep Factor: 1 **Prepared:** 02/02/07 **Analyzed:** 02/02/07 22:55 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environment - E-10266
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1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SPUW (013107) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499254 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81894

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 01/31/07 **Received:** 02/01/07

Prep Factor: 1 **Prepared:** 02/02/07 **Analyzed:** 02/02/07 22:55 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	ND	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SPUW (013107)
Site: None
Project: MS BLUFFS/LA002656.0001.00013
Project No.: 2066418
Sample Qu:
Lab ID: 20499254
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 81863
Method: 8270 SVOAs Water
Units: ug/L
Target List: 8270_WL20
Collected: 01/31/07
Received: 02/01/07
Prep Factor: 1
Prepared: 02/02/07
Analyzed: 02/05/07 16:56 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	3.82	J	1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	10.5		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

3/8/2007 10:32:23

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-4 (020107) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499589 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81996

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/06/07 **Analyzed:** 02/06/07 23:25 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	17.4	A11,B	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-4 (020107) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499589 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81996

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/06/07 **Analyzed:** 02/06/07 23:25 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	24.2	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-4 (020107)
Site: None
Project: MS BLUFFS/LA002656.0001.00013
Project No.: 2066418
Sample Qu:
Lab ID: 20499589
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 81863
Method: 8270 SVOAs Water
Units: ug/L
Target List: 8270_WL20
Collected: 02/01/07
Received: 02/02/07
Prep Factor: 1
Prepared: 02/07/07
Analyzed: 02/08/07 19:11 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-21A (020107) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499590 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81996

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/06/07 **Analyzed:** 02/06/07 23:47 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	33.6	A11,B	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-21A (020107) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499590 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81996

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/06/07 **Analyzed:** 02/06/07 23:47 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	26.7	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

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Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-21A (020107) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499590 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81863

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/03/07 **Analyzed:** 02/05/07 17:50 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

3/8/2007 10:32:24

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-23A (020107)
Site: None
Project: MS BLUFFS/LA002656.0001.00013
Project No.: 2066418
Sample Qu:
Lab ID: 20499591
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 81996
Method: 8260 VOAs Water
Units: ug/L
Target List: 8260_WL20
Collected: 02/01/07
Received: 02/02/07
Prep Factor: 1
Prepared: 02/07/07
Analyzed: 02/07/07 00:10 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	20.1	A11,B	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-23A (020107) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499591 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81996

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/07/07 **Analyzed:** 02/07/07 00:10 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	22.2	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: PZ-23A (020107) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499591 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81863

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/03/07 **Analyzed:** 02/05/07 18:17 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

3/8/2007 10:32:24

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-24B (020107) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499592 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81996

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/07/07 **Analyzed:** 02/07/07 00:32 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	22.0	A11,B	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-24B (020107) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499592 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81996

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/07/07 **Analyzed:** 02/07/07 00:32 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	23.8	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-24B (020107) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499592 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81863

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/03/07 **Analyzed:** 02/05/07 18:45 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: TB-03 **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499709 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81944

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/05/07 **Analyzed:** 02/05/07 00:09 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: TB-03 | **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 | **Project No.:** 2066418 | **Sample Qu:**

Lab ID: 20499709 | **Matrix:** Water | **% Moisture:** n/a

Description: None | **Prep Level:** Water | **Batch:** 81944

Method: 8260 VOAs Water | **Units:** ug/L | **Target List:** 8260_WL20

Collected: 02/01/07 | **Received:** 02/02/07

Prep Factor: 1 | **Prepared:** 02/05/07 | **Analyzed:** 02/05/07 00:09 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	2.81	J A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-5 (013007)
Site: None
Project: MS BLUFFS/LA002656.0001.00013
Project No.: 2066418
Sample Qu:
Lab ID: 20499165
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 81726
Method: 8081 Pests Water
Units: ug/L
Target List: 8081_WL20
Collected: 01/30/07
Received: 01/31/07
Prep Factor: 1
Prepared: 02/01/07
Analyzed: 02/12/07 17:29 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-5 (013007) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499165 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81945

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 01/30/07 **Received:** 01/31/07

Prep Factor: 1 **Prepared:** 02/06/07 **Analyzed:** 02/08/07 15:45 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND		0.224	2.00	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: MW-6 (013007)
Site: None
Project: MS BLUFFS/LA002656.0001.00013
Project No.: 2066418
Sample Qu:
Lab ID: 20499166
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 81726
Method: 8081 Pests Water
Units: ug/L
Target List: 8081_WL20
Collected: 01/30/07
Received: 01/31/07
Prep Factor: 1
Prepared: 02/01/07
Analyzed: 02/12/07 17:45 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: MW-6 (013007)
Site: None
Project: MS BLUFFS/LA002656.0001.00013
Project No.: 2066418
Sample Qu:
Lab ID: 20499166
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 81945
Method: 8151 Herbs Water
Units: ug/L
Target List: 8151_WL20
Collected: 01/30/07
Received: 01/31/07
Prep Factor: 1
Prepared: 02/06/07
Analyzed: 02/08/07 16:13 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND		0.224	2.00	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: MW-2 (013007) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499167 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81726

Method: 8081 Pests Water **Units:** ug/L **Target List:** 8081_WL20

Collected: 01/30/07 **Received:** 01/31/07

Prep Factor: 1 **Prepared:** 02/01/07 **Analyzed:** 02/12/07 18:02 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: MW-2 (013007) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499167 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81945

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 01/30/07 **Received:** 01/31/07

Prep Factor: 1 **Prepared:** 02/06/07 **Analyzed:** 02/08/07 16:40 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND		0.224	2.00	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: MW-7 (013007) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499168 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81726

Method: 8081 Pests Water **Units:** ug/L **Target List:** 8081_WL20

Collected: 01/30/07 **Received:** 01/31/07

Prep Factor: 1 **Prepared:** 02/01/07 **Analyzed:** 02/12/07 18:18 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-7 (013007)
Site: None
Project: MS BLUFFS/LA002656.0001.00013
Project No.: 2066418
Sample Qu:
Lab ID: 20499168
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 81945
Method: 8151 Herbs Water
Units: ug/L
Target List: 8151_WL20
Collected: 01/30/07
Received: 01/31/07
Prep Factor: 1
Prepared: 02/06/07
Analyzed: 02/08/07 17:07 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND		0.224	2.00	

1 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-12A (013107) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499245 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82037

Method: 8081 Pests Water **Units:** ug/L **Target List:** 8081_WL20

Collected: 01/31/07 **Received:** 02/01/07

Prep Factor: 1 **Prepared:** 02/07/07 **Analyzed:** 02/14/07 20:48 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

3/8/2007 10:32:29

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U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-12A (013107)
Site: None
Project: MS BLUFFS/LA002656.0001.00013
Project No.: 2066418
Sample Qu:
Lab ID: 20499245
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 81946
Method: 8151 Herbs Water
Units: ug/L
Target List: 8151_WL20
Collected: 01/31/07
Received: 02/01/07
Prep Factor: 1
Prepared: 02/06/07
Analyzed: 02/22/07 23:52 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND	N	0.224	2.00	

1 compound(s) reported

3/8/2007 10:32:29

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-12A (013107)MS
Site: None
Project: MS BLUFFS/LA002656.0001.00013
Project No.: 2066418
Sample Qu:
Lab ID: 20499245MS
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 81946
Method: 8151 Herbs Water MS
Units: ug/L
Target List: 8151 MWL20
Collected: 01/31/07
Received: 02/01/07
Prep Factor: 1
Prepared: 02/06/07
Analyzed: 02/23/07 00:19 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	5.636		0.224	2.00	

1 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-12A (013107)MSD
Site: None
Project: MS BLUFFS/LA002656.0001.00013
Project No.: 2066418
Sample Qu:
Lab ID: 20499245MSD
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 81946
Method: 8151 Herbs Water MS
Units: ug/L
Target List: 8151 MWL20
Collected: 01/31/07
Received: 02/01/07
Prep Factor: 1
Prepared: 02/06/07
Analyzed: 02/23/07 00:47 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	2.562		0.224	2.00	

1 compound(s) reported

3/8/2007 10:32:29

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Client: Arcadis Geraghty & Miller

Client ID: PZ-12B (013107) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499246 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82037

Method: 8081 Pests Water **Units:** ug/L **Target List:** 8081_WL20

Collected: 01/31/07 **Received:** 02/01/07

Prep Factor: 1 **Prepared:** 02/07/07 **Analyzed:** 02/14/07 21:37 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

3/8/2007 10:32:29

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Client: Arcadis Geraghty & Miller

Client ID: PZ-12B (013107) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499246 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81946

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 01/31/07 **Received:** 02/01/07

Prep Factor: 1 **Prepared:** 02/06/07 **Analyzed:** 02/23/07 01:14 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND	N	0.224	2.00	

1 compound(s) reported

3/8/2007 10:32:29

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Client: Arcadis Geraghty & Miller

Client ID: PZ-20A (013107) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499247 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82037

Method: 8081 Pests Water **Units:** ug/L **Target List:** 8081_WL20

Collected: 01/31/07 **Received:** 02/01/07

Prep Factor: 1 **Prepared:** 02/07/07 **Analyzed:** 02/14/07 21:54 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: PZ-20A (013107) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499247 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81946

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 01/31/07 **Received:** 02/01/07

Prep Factor: 1 **Prepared:** 02/06/07 **Analyzed:** 02/23/07 01:41 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND	N	0.224	2.00	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: PZ-20B (013107) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499248 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82037

Method: 8081 Pests Water **Units:** ug/L **Target List:** 8081_WL20

Collected: 01/31/07 **Received:** 02/01/07

Prep Factor: 1 **Prepared:** 02/07/07 **Analyzed:** 02/14/07 22:10 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

3/8/2007 10:32:30

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Client: Arcadis Geraghty & Miller

Client ID: PZ-20B (013107) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499248 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81946

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 01/31/07 **Received:** 02/01/07

Prep Factor: 1 **Prepared:** 02/06/07 **Analyzed:** 02/23/07 02:09 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND	N	0.224	2.00	

1 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-20B (013107) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499248RE1 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82817

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 01/31/07 **Received:** 02/01/07

Prep Factor: 1 **Prepared:** 02/27/07 **Analyzed:** 03/02/07 14:49 SPP1 (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND	N	0.224	2.00	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: DUP-01 (013107) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499249 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82037

Method: 8081 Pests Water **Units:** ug/L **Target List:** 8081_WL20

Collected: 01/31/07 **Received:** 02/01/07

Prep Factor: 1 **Prepared:** 02/07/07 **Analyzed:** 02/15/07 16:18 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: DUP-01 (013107) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499249 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81946

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 01/31/07 **Received:** 02/01/07

Prep Factor: 1 **Prepared:** 02/06/07 **Analyzed:** 02/23/07 02:36 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND	N	0.224	2.00	

1 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SPUW (013107) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499254 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82037

Method: 8081 Pests Water **Units:** ug/L **Target List:** 8081_WL20

Collected: 01/31/07 **Received:** 02/01/07

Prep Factor: 1 **Prepared:** 02/07/07 **Analyzed:** 02/15/07 16:34 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SPUW (013107) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499254 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81946

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 01/31/07 **Received:** 02/01/07

Prep Factor: 1 **Prepared:** 02/06/07 **Analyzed:** 02/23/07 03:04 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND	N	0.224	2.00	

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit denotes an actual regulatory limit or a client-requested notification limit.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/8/2007 10:32:30

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-4 (020107) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499589 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82082

Method: 8081 Pests Water **Units:** ug/L **Target List:** 8081_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/08/07 **Analyzed:** 02/13/07 16:12 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

3/8/2007 10:32:30

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-4 (020107) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499589 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81945

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/08/07 **Analyzed:** 02/15/07 03:00 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND		0.224	2.00	

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-21A (020107) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499590 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82082

Method: 8081 Pests Water **Units:** ug/L **Target List:** 8081_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/08/07 **Analyzed:** 02/13/07 16:28 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
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For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
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Client: Arcadis Geraghty & Miller

Client ID: PZ-21A (020107) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499590 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81945

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/08/07 **Analyzed:** 02/15/07 03:27 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND		0.224	2.00	

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
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Client: Arcadis Geraghty & Miller

Client ID: PZ-23A (020107) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499591 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82082

Method: 8081 Pests Water **Units:** ug/L **Target List:** 8081_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/08/07 **Analyzed:** 02/13/07 16:45 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Client: Arcadis Geraghty & Miller

Client ID: PZ-23A (020107) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499591 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81945

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/08/07 **Analyzed:** 02/15/07 03:55 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND		0.224	2.00	

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Client: Arcadis Geraghty & Miller

Client ID: PZ-24B (020107) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499592 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82082

Method: 8081 Pests Water **Units:** ug/L **Target List:** 8081_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/08/07 **Analyzed:** 02/13/07 17:01 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

3/8/2007 10:32:31

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For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-24B (020107) **Site:** None

Project: MS BLUFFS/LA002656.0001.00013 **Project No.:** 2066418 **Sample Qu:**

Lab ID: 20499592 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81945

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/08/07 **Analyzed:** 02/15/07 04:22 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND		0.224	2.00	

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
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LELAP # 02006

Client ID: MW-5 (013007)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001.00013
Site: None
Lab ID: 20499165
Project No.: 2066418
Description: None
Matrix: Water
%Moisture: n/a
Collected: 01/30/07
Received: 01/31/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	81950	1	37.0		ug/L	6.05	10.0	02/05	02/15 21:27	KJR (1)	
Arsenic, Dissolved	EPA 6010	81961	1	23.3		ug/L	5.12	10.0	02/05	02/14 16:35	KJR (1)	

2 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Client ID: MW-6 (013007)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001.00013
Site: None
Lab ID: 20499166
Project No.: 2066418
Description: None
Matrix: Water
%Moisture: n/a
Collected: 01/30/07
Received: 01/31/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	81950	1	28.8		ug/L	6.05	10.0	02/05	02/15 21:32	KJR (1)	
Arsenic, Dissolved	EPA 6010	81961	1	27.4		ug/L	5.12	10.0	02/05	02/14 16:40	KJR (1)	

2 parameter(s) reported

3/8/2007 10:32:34

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(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
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Client ID: MW-2 (013007)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001.00013
Site: None
Lab ID: 20499167
Project No.: 2066418
Description: None
Matrix: Water
%Moisture: n/a
Collected: 01/30/07
Received: 01/31/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	81950	1	20.5		ug/L	6.05	10.0	02/05	02/15 21:37	KJR (1)	
Arsenic, Dissolved	EPA 6010	81961	1	21.7		ug/L	5.12	10.0	02/05	02/14 16:45	KJR (1)	

2 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
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Client ID: MW-7 (013007)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001.00013
Site: None
Lab ID: 20499168
Project No.: 2066418
Description: None
Matrix: Water
%Moisture: n/a
Collected: 01/30/07
Received: 01/31/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	81950	1	47.8		ug/L	6.05	10.0	02/05	02/15 21:42	KJR (1)	
Arsenic, Dissolved	EPA 6010	81961	1	31.1		ug/L	5.12	10.0	02/05	02/14 16:50	KJR (1)	

2 parameter(s) reported

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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
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Client ID: PZ-12A (013107)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001.00013
Site: None
Lab ID: 20499245
Project No.: 2066418
Description: None
Matrix: Water
%Moisture: n/a
Collected: 01/31/07
Received: 02/01/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	81950	1	ND		ug/L	6.05	10.0	02/05	02/15 21:07	KJR (1)	
Arsenic, Dissolved	EPA 6010	81961	1	32.2		ug/L	5.12	10.0	02/05	02/14 16:16	KJR (1)	

2 parameter(s) reported

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ND denotes Not Detected at or above the adjusted reporting limit.
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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Kansas Dept. of Health .Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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New Orleans Laboratory

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: PZ-12A (013107)MS
Project: MS BLUFFS/LA002656.0001.00013
Lab ID: 20499245MS
Description: None

Client: Arcadis Geraghty & Miller
Site: None
Project No.: 2066418
Matrix: Water **%Moisture:** n/a
Collected: 01/31/07 **Received:** 02/01/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	81950	1	919.		ug/L	6.05	10.0	02/05	02/15 21:12	KJR (1)	
Arsenic, Dissolved	EPA 6010	81961	1	866.		ug/L	5.12	10.0	02/05	02/14 16:21	KJR (1)	

2 parameter(s) reported

3/8/2007 10:32:35

ND denotes Not Detected at or above the adjusted reporting limit.
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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
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Phone: 504.469.0333
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Client ID: PZ-12A (013107)MSD
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001.00013
Site: None
Lab ID: 20499245MSD
Project No.: 2066418
Description: None
Matrix: Water **%Moisture:** n/a
Collected: 01/31/07 **Received:** 02/01/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	81950	1	930.		ug/L	6.05	10.0	02/05	02/15 21:17	KJR (1)	
Arsenic, Dissolved	EPA 6010	81961	1	911.		ug/L	5.12	10.0	02/05	02/14 16:25	KJR (1)	

2 parameter(s) reported

3/8/2007 10:32:35

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DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
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Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: PZ-12B (013107)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001.00013
Site: None
Lab ID: 20499246
Project No.: 2066418
Description: None
Matrix: Water
%Moisture: n/a
Collected: 01/31/07
Received: 02/01/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	81950	1	15.4		ug/L	6.05	10.0	02/05	02/15 21:56	KJR (1)	
Arsenic, Dissolved	EPA 6010	81961	1	34.0		ug/L	5.12	10.0	02/05	02/14 17:05	KJR (1)	

2 parameter(s) reported

3/8/2007 10:32:35

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Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
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(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
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Phone: 504.469.0333
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LELAP # 02006

Client ID: PZ-20A (013107)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001.00013
Site: None
Lab ID: 20499247
Project No.: 2066418
Description: None
Matrix: Water
%Moisture: n/a
Collected: 01/31/07
Received: 02/01/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	81950	1	23.7		ug/L	6.05	10.0	02/05	02/15 22:01	KJR (1)	
Arsenic, Dissolved	EPA 6010	81961	1	39.1		ug/L	5.12	10.0	02/05	02/14 17:09	KJR (1)	

2 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
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1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: PZ-20B (013107)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001.00013
Site: None
Lab ID: 20499248
Project No.: 2066418
Description: None
Matrix: Water
%Moisture: n/a
Collected: 01/31/07
Received: 02/01/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	81950	1	45.2		ug/L	6.05	10.0	02/05	02/15 22:08	KJR (1)	
Arsenic, Dissolved	EPA 6010	81961	1	48.4		ug/L	5.12	10.0	02/05	02/14 17:14	KJR (1)	

2 parameter(s) reported

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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
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LELAP # 02006

Client ID: DUP-01 (013107)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001.00013
Site: None
Lab ID: 20499249
Project No.: 2066418
Description: None
Matrix: Water
%Moisture: n/a
Collected: 01/31/07
Received: 02/01/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	81950	1	34.0		ug/L	6.05	10.0	02/05	02/15 22:13	KJR (1)	
Arsenic, Dissolved	EPA 6010	81961	1	30.9		ug/L	5.12	10.0	02/05	02/14 17:21	KJR (1)	

2 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
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LELAP # 02006

Client ID: MW-4 (020107)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001.00013
Site: None
Lab ID: 20499589
Project No.: 2066418
Description: None
Matrix: Water
%Moisture: n/a
Collected: 02/01/07
Received: 02/02/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	81950	1	26.4		ug/L	6.05	10.0	02/05	02/15 22:22	KJR (1)	
Arsenic, Dissolved	EPA 6010	81961	1	24.4		ug/L	5.12	10.0	02/05	02/14 17:31	KJR (1)	

2 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: PZ-21A (020107)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001.00013
Site: None
Lab ID: 20499590
Project No.: 2066418
Description: None
Matrix: Water
%Moisture: n/a
Collected: 02/01/07
Received: 02/02/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
Arsenic	EPA 6010	81950	1	32.8		ug/L	6.05	10.0	02/05	02/15 22:27 KJR (1)	
Arsenic, Dissolved	EPA 6010	81961	1	22.9		ug/L	5.12	10.0	02/05	02/14 17:36 KJR (1)	

2 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: PZ-23A (020107)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001.00013
Site: None
Lab ID: 20499591
Project No.: 2066418
Description: None
Matrix: Water
%Moisture: n/a
Collected: 02/01/07
Received: 02/02/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	81950	1	28.1		ug/L	6.05	10.0	02/05	02/15 22:32	KJR (1)	
Arsenic, Dissolved	EPA 6010	81961	1	32.0		ug/L	5.12	10.0	02/05	02/14 17:41	KJR (1)	

2 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
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3/8/2007 10:32:36

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LELAP # 02006

Client ID: PZ-24B (020107)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001.00013
Site: None
Lab ID: 20499592
Project No.: 2066418
Description: None
Matrix: Water
%Moisture: n/a
Collected: 02/01/07
Received: 02/02/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
Arsenic	EPA 6010	81950	1	21.6		ug/L	6.05	10.0	02/05	02/15 22:17 KJR (1)	
Arsenic, Dissolved	EPA 6010	81961	1	22.5		ug/L	5.12	10.0	02/05	02/14 17:26 KJR (1)	

2 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
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3/8/2007 10:32:36

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Report of Quality Control

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Method: EPA 8260 **Project:** 2066418 **LCS:** 20499545 2/2/2007 5:19:00 PM

Batch: 81894 **MS:** 20499546 2/2/2007 7:56:00 PM

Units: ug/L **Original for MS:** 20499245 Project Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Acetone	50	51.66		103			50	0.00	59.2	67.88	118	136	14	22 - 165	11 - 171	20	A11
Acetonitrile	550	646.1		117			550	0.00	579.7	598.9	105	109	3	15 - 171	10 - 182	20	
Acrolein	100	86.72		87			100	0.00	80.71	83.3	81	83	3	10 - 150	10 - 150	20	
Acrylonitrile	150	146.3		98			150	0.00	131.1	140.1	87	93	7	10 - 150	10 - 150	20	
Allyl chloride	100	79.79		80			100	0.00	74.63	80.93	75	81	8	30 - 155	34 - 153	20	
Benzene	50	42.27		85			50	0.00	40.73	43.05	82	86	6	70 - 135	60 - 144	20	
Bromodichloromethane	50	47.5		95			50	0.00	49.6	52.28	99	105	5	61 - 156	59 - 156	20	
Bromoform	50	59.06		118			50	0.00	63.42	63.69	127	127	0	56 - 154	50 - 153	20	
Bromomethane	50	35.43		71			50	0.00	36.79	35.73	74	72	3	44 - 158	37 - 165	20	
2-Butanone (MEK)	50	49.96		100			50	0.00	52.84	56.02	106	112	6	32 - 157	20 - 168	20	A11
Carbon disulfide	50	34.36		69			50	0.00	32.52	35.13	65	70	8	40 - 147	36 - 152	20	
Carbon tetrachloride	50	48.73		98			50	0.00	46.56	47.98	93	96	3	50 - 166	44 - 170	20	
Chlorobenzene	50	52.93		106			50	0.00	51.59	53.4	103	107	3	73 - 129	67 - 134	20	
Chloroethane	50	32.88		66			50	0.00	34.93	34.07	70	68	2	38 - 163	34 - 170	20	
Chloroform	50	48.32		97			50	0.00	47.62	51.19	95	102	7	71 - 133	64 - 140	20	
Chloromethane	50	22.73		46			50	0.00	21.67	24.31	43	49	11	32 - 149	22 - 163	20	
Chloroprene	50	51.22		102			50	0.00	40.47	43.38	81	87	7	50 - 141	51 - 134	20	
1,2-Dibromo-3-chloropropa	50	67.02		134			50	0.00	69.01	73.05	138	146	6	34 - 145	28 - 150	20	
Dibromochloromethane	50	55.34		111			50	0.00	60.03	61.31	120	123	2	63 - 147	58 - 147	20	
1,2-Dibromoethane (EDB)	50	59.62		119			50	0.00	64.71	66.8	129	134	3	60 - 147	55 - 149	20	
Dibromomethane	50	53.05		106			50	0.00	54.08	57.97	108	116	7	60 - 147	56 - 148	20	
trans-1,4-Dichloro-2-butene	100	120.2		120			100	0.00	122.8	123.7	123	124	1	17 - 178	21 - 164	20	
1,1-Dichloroethane	50	48.39		97			50	0.00	40.27	43.6	81	87	8	64 - 135	59 - 142	20	
1,2-Dichloroethane	50	52.16		104			50	0.00	54.52	56.3	109	113	3	53 - 164	51 - 161	20	
1,1-Dichloroethene	50	43.24		87			50	0.00	40.14	43.33	80	87	8	51 - 143	44 - 152	20	
trans-1,2-Dichloroethene	50	44.33		89			50	0.00	42.38	44.78	85	90	6	59 - 139	56 - 145	20	
1,2-Dichloropropane	50	41.82		84			50	0.00	42.89	44.69	86	89	4	69 - 135	66 - 138	20	
cis-1,3-Dichloropropene	50	50.75		102			50	0.00	49.07	51.03	98	102	4	66 - 141	58 - 142	20	
trans-1,3-Dichloropropene	50	51.83		104			50	0.00	55.1	55.77	110	112	1	57 - 150	50 - 151	20	
1,4-Dioxane (p-Dioxane)	1050	1328		126			1050	0.00	1491	1538	142	147	3	17 - 176	19 - 172	20	
Ethylbenzene	50	48.7		97			50	0.00	46.29	47.4	93	95	2	67 - 132	58 - 138	20	
Ethyl methacrylate	100	109.9		110			100	0.00	119.8	122.4	120	122	2	57 - 143	45 - 170	20	
2-Hexanone	50	52.62		105			50	0.00	61.9	64.88	124	130	5	36 - 154	25 - 163	20	
Iodomethane	50	45.16		90			50	0.00	43.56	47.03	87	94	8	43 - 159	36 - 160	20	
Isobutanol	1050	859.4		82			1050	0.00	1026	1092	98	104	6	32 - 160	26 - 169	20	
Methacrylonitrile	550	541.4		98			550	0.00	587.8	629.5	107	115	7	10 - 171	10 - 167	20	
Methylene chloride	50	59.12		118			50	0.00	57.79	63.38	116	127	9	29 - 159	19 - 158	20	A11
Methyl methacrylate	100	106.6		107			100	0.00	117.9	124.5	118	125	5	52 - 167	11 - 212	20	
4-Methyl-2-pentanone (MI	50	58.11		116			50	0.00	60.11	63.04	120	126	5	13 - 162	10 - 157	20	

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* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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LELAP # 02006

Method: EPA 8260 **Project:** 2066418 **LCS:** 20499545 2/2/2007 5:19:00 PM

Batch: 81894 **MS:** 20499546 2/2/2007 7:56:00 PM

Units: ug/L **Original for MS:** 20499245 Project Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Propionitrile	550	548		100			550	0.00	626.5	636.4	114	116	2	23 - 159	25 - 158	20	
Styrene	50	57.2		114			50	0.00	53.17	55.6	106	111	4	71 - 134	54 - 144	20	
1,1,1,2-Tetrachloroethane	50	55.2		110			50	0.00	55.77	58.14	112	116	4	73 - 146	65 - 150	20	
1,1,2,2-Tetrachloroethane	50	62.14		124			50	0.00	65	65.72	130	131	1	50 - 142	46 - 145	20	
Tetrachloroethene	50	48.98		98			50	0.00	45.38	47.08	91	94	4	42 - 156	39 - 151	20	
Toluene	50	45.51		91			50	0.00	43.86	45.61	88	91	4	72 - 132	64 - 139	20	
1,1,1-Trichloroethane	50	45.01		90			50	0.00	42.35	45.41	85	91	7	65 - 136	59 - 141	20	
1,1,2-Trichloroethane	50	53.41		107			50	0.00	57.11	58.89	114	118	3	67 - 144	60 - 146	20	
Trichloroethene	50	49.05		98			50	0.00	46.46	48.53	93	97	4	69 - 136	61 - 141	20	
Trichlorofluoromethane	50	38.79		78			50	0.00	36.99	38.69	74	77	4	42 - 161	38 - 160	20	
1,2,3-Trichloropropane	50	68.96		138			50	0.00	72.73	72.99	146	146	0	52 - 152	51 - 151	20	
1,2,4-Trimethylbenzene	50	53.44		107			50	0.00	49.94	50.92	100	102	2	59 - 137	41 - 155	20	
1,3,5-Trimethylbenzene	50	50.85		102			50	0.00	46.48	48.22	93	96	4	69 - 135	55 - 150	20	
Vinyl acetate	50	140.1		280 *			50	0.00	108.2	115.4	216 *	231 *	6	21 - 190	10 - 185	20	Q10
Vinyl chloride	50	26.01		52			50	0.00	24.51	30.2	49	60	21 *	40 - 146	28 - 161	20	
m&p-Xylene	100	101.1		101			100	0.00	97.07	99.24	97	99	2	70 - 129	66 - 132	20	
o-Xylene	50	51.16		102			50	0.00	49.57	50.93	99	102	3	70 - 129	66 - 132	20	

56 compound(s) reported

*** denotes recovery outside of QC limits.**
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Method: EPA 8260 **Project:** 2066418 **LCS:** 20499739 2/4/2007 1:41:00 PM

Batch: 81894 **MS:**

Units: ug/L **Original for MS:**

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Acetone	50	53.88		108										22 - 165	-		A11
Acetonitrile	550	530.1		96										15 - 171	-		
Acrolein	100	81.97		82										10 - 150	-		
Acrylonitrile	150	128.8		86										10 - 150	-		
Allyl chloride	100	88.8		89										30 - 155	-		
Benzene	50	45.5		91										70 - 135	-		
Bromodichloromethane	50	50.36		101										61 - 156	-		
Bromoform	50	60.89		122										56 - 154	-		
Bromomethane	50	34.9		70										44 - 158	-		
2-Butanone (MEK)	50	53.1		106										32 - 157	-		A11
Carbon disulfide	50	39.14		78										40 - 147	-		
Carbon tetrachloride	50	54.65		109										50 - 166	-		
Chlorobenzene	50	55.49		111										73 - 129	-		
Chloroethane	50	35.93		72										38 - 163	-		
Chloroform	50	51.84		104										71 - 133	-		
Chloromethane	50	25.33		51										32 - 149	-		
Chloroprene	50	50.74		101										50 - 141	-		
1,2-Dibromo-3-chloropropa	50	68.13		136										34 - 145	-		
Dibromochloromethane	50	59.92		120										63 - 147	-		
1,2-Dibromoethane (EDB)	50	61.66		123										60 - 147	-		
Dibromomethane	50	52.7		105										60 - 147	-		
trans-1,4-Dichloro-2-butene	100	126.3		126										17 - 178	-		
1,1-Dichloroethane	50	45.82		92										64 - 135	-		
1,2-Dichloroethane	50	53.59		107										53 - 164	-		
1,1-Dichloroethene	50	49.5		99										51 - 143	-		
trans-1,2-Dichloroethene	50	48.78		98										59 - 139	-		
1,2-Dichloropropane	50	44.29		89										69 - 135	-		
cis-1,3-Dichloropropene	50	52.41		105										66 - 141	-		
trans-1,3-Dichloropropene	50	54.46		109										57 - 150	-		
1,4-Dioxane (p-Dioxane)	1050	1381		132										17 - 176	-		
Ethylbenzene	50	52.2		104										67 - 132	-		
Ethyl methacrylate	100	111		111										57 - 143	-		
2-Hexanone	50	59.17		118										36 - 154	-		
Iodomethane	50	48.53		97										43 - 159	-		
Isobutanol	1050	1031		98										32 - 160	-		
Methacrylonitrile	550	564.6		103										10 - 171	-		
Methylene chloride	50	61.35		123										29 - 159	-		A11
Methyl methacrylate	100	113.3		113										52 - 167	-		
4-Methyl-2-pentanone (MI	50	57.41		115										13 - 162	-		

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* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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LELAP # 02006

Method: EPA 8260 **Project:** 2066418 **LCS:** 20499739 2/4/2007 1:41:00 PM

Batch: 81894 **MS:**

Units: ug/L **Original for MS:**

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Propionitrile	550	600.9		109										23 - 159	-		
Styrene	50	59.54		119										71 - 134	-		
1,1,1,2-Tetrachloroethane	50	57.52		115										73 - 146	-		
1,1,2,2-Tetrachloroethane	50	63.7		127										50 - 142	-		
Tetrachloroethene	50	55.51		111										42 - 156	-		
Toluene	50	48.69		97										72 - 132	-		
1,1,1-Trichloroethane	50	51.54		103										65 - 136	-		
1,1,2-Trichloroethane	50	54.47		109										67 - 144	-		
Trichloroethene	50	54.49		109										69 - 136	-		
Trichlorofluoromethane	50	44.48		89										42 - 161	-		
1,2,3-Trichloropropane	50	68.5		137										52 - 152	-		
1,2,4-Trimethylbenzene	50	57.18		114										59 - 137	-		
1,3,5-Trimethylbenzene	50	54.47		109										69 - 135	-		
Vinyl acetate	50	121.3		243 *										21 - 190	-		Q10
Vinyl chloride	50	28.87		58										40 - 146	-		
m&p-Xylene	100	108.8		109										70 - 129	-		
o-Xylene	50	54.2		108										70 - 129	-		

56 compound(s) reported

*** denotes recovery outside of QC limits.**
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Method: EPA 8260 **Project:** 2066418 **LCS:** 20499735 2/4/2007 8:25:00 PM

Batch: 81944 **MS:** 20499736 2/4/2007 9:10:00 PM

Units: ug/L **Original for MS:** 20499710 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Acetone	50	58.6		117			50		69.25	70.72				22 - 165	11 - 171	20	A11
Acetonitrile	550	535.1		97			550		592.4	624.4				15 - 171	10 - 182	20	
Acrolein	100	83.12		83			100		88.87	89.52				10 - 150	10 - 150	20	
Acrylonitrile	150	124.5		83			150		137.9	139.1				10 - 150	10 - 150	20	
Allyl chloride	100	76.31		76			100		76.76	79.74				30 - 155	34 - 153	20	
Benzene	50	41.54		83			50		41.55	41.28				70 - 135	60 - 144	20	
Bromodichloromethane	50	48.52		97			50		49.96	50.31				61 - 156	59 - 156	20	
Bromoform	50	60.22		120			50		61.51	63.26				56 - 154	50 - 153	20	
Bromomethane	50	32.83		66			50		34.48	33.99				44 - 158	37 - 165	20	
2-Butanone (MEK)	50	50.84		102			50		57.4	59.22				32 - 157	20 - 168	20	A11
Carbon disulfide	50	33.11		66			50		33.66	34.39				40 - 147	36 - 152	20	
Carbon tetrachloride	50	45.11		90			50		45.86	45.55				50 - 166	44 - 170	20	
Chlorobenzene	50	51.78		104			50		51.15	51.93				73 - 129	67 - 134	20	
Chloroethane	50	31.87		64			50		32.6	33.9				38 - 163	34 - 170	20	
Chloroform	50	48.24		97			50		49.31	49.51				71 - 133	64 - 140	20	
Chloromethane	50	22.54		45			50		24.11	24.97				32 - 149	22 - 163	20	
Chloroprene	50	41.63		83			50		41.42	43.2				50 - 141	51 - 134	20	
1,2-Dibromo-3-chloropropa	50	64.95		130			50		66.1	72.94				34 - 145	28 - 150	20	
Dibromochloromethane	50	58.43		117			50		59.09	60.43				63 - 147	58 - 147	20	
1,2-Dibromoethane (EDB)	50	61.86		124			50		66.93	66.79				60 - 147	55 - 149	20	
Dibromomethane	50	53.37		107			50		56.59	57.01				60 - 147	56 - 148	20	
trans-1,4-Dichloro-2-butene	100	118.6		119			100		120.8	126.1				17 - 178	21 - 164	20	
1,1-Dichloroethane	50	40.92		82			50		41.56	42.24				64 - 135	59 - 142	20	
1,2-Dichloroethane	50	53.17		106			50		55.53	54.56				53 - 164	51 - 161	20	
1,1-Dichloroethene	50	41.11		82			50		41.24	42.61				51 - 143	44 - 152	20	
trans-1,2-Dichloroethene	50	41.15		82			50		43.15	44.34				59 - 139	56 - 145	20	
1,2-Dichloropropane	50	42.43		85			50		44.61	43.89				69 - 135	66 - 138	20	
cis-1,3-Dichloropropene	50	49.59		99			50		50.57	50.58				66 - 141	58 - 142	20	
trans-1,3-Dichloropropene	50	52.49		105			50		55.73	54.48				57 - 150	50 - 151	20	
1,4-Dioxane (p-Dioxane)	1050	1392		133			1050		1563	1677				17 - 176	19 - 172	20	
Ethylbenzene	50	45.89		92			50		45.5	46.53				67 - 132	58 - 138	20	
Ethyl methacrylate	100	111		111			100		121	123.2				57 - 143	45 - 170	20	
2-Hexanone	50	58.95		118			50		62.9	65.53				36 - 154	25 - 163	20	
Iodomethane	50	45.29		91			50		46.28	46.6				43 - 159	36 - 160	20	
Isobutanol	1050	951.7		91			1050		1104	1196				32 - 160	26 - 169	20	
Methacrylonitrile	550	579		105			550		629.6	646.6				10 - 171	10 - 167	20	
Methylene chloride	50	58.84		118			50		59.68	61.14				29 - 159	19 - 158	20	A11
Methyl methacrylate	100	115.4		115			100		122.6	129.3				52 - 167	11 - 212	20	
4-Methyl-2-pentanone (MI	50	61.33		123			50		59.84	66.44				13 - 162	10 - 157	20	

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* denotes recovery outside of QC limits.
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LELAP # 02006

Method: EPA 8260 **Project:** 2066418 **LCS:** 20499735 2/4/2007 8:25:00 PM

Batch: 81944 **MS:** 20499736 2/4/2007 9:10:00 PM

Units: ug/L **Original for MS:** 20499710 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Propionitrile	550	599.5		109			550		646.7	698.4				23 - 159	25 - 158	20	
Styrene	50	55.46		111			50		54.72	56.19				71 - 134	54 - 144	20	
1,1,1,2-Tetrachloroethane	50	55.94		112			50		55.3	56.84				73 - 146	65 - 150	20	
1,1,2,2-Tetrachloroethane	50	65.24		130			50		65.7	66.85				50 - 142	46 - 145	20	
Tetrachloroethene	50	45.63		91			50		43.77	45.85				42 - 156	39 - 151	20	
Toluene	50	43.92		88			50		44.17	44.15				72 - 132	64 - 139	20	
1,1,1-Trichloroethane	50	41.64		83			50		43.06	43.49				65 - 136	59 - 141	20	
1,1,2-Trichloroethane	50	55.05		110			50		58.14	56.57				67 - 144	60 - 146	20	
Trichloroethene	50	46.59		93			50		47.58	47.16				69 - 136	61 - 141	20	
Trichlorofluoromethane	50	36.47		73			50		37.49	38.07				42 - 161	38 - 160	20	
1,2,3-Trichloropropane	50	70.58		141			50		73.34	73.72				52 - 152	51 - 151	20	
1,2,4-Trimethylbenzene	50	50.88		102			50		50.42	49.89				59 - 137	41 - 155	20	
1,3,5-Trimethylbenzene	50	48.2		96			50		47.51	47.13				69 - 135	55 - 150	20	
Vinyl acetate	50	121.3		243 *			50		110.6	115.7				21 - 190	10 - 185	20	Q10
Vinyl chloride	50	24.5		49			50		25.35	26.6				40 - 146	28 - 161	20	
m&p-Xylene	100	97.25		97			100		93.49	96.88				70 - 129	66 - 132	20	
o-Xylene	50	49.93		100			50		47.92	50.54				70 - 129	66 - 132	20	

56 compound(s) reported

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Method: EPA 8260 **Project:** 2066418 **LCS:** 20500538 2/6/2007 11:03:00 PM

Batch: 81996 **MS:** 20499947 2/6/2007 5:04:00 PM

Units: ug/L **Original for MS:** 20499517 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Acetone	50	106.6		213 *			50	23.28	81.42	88.89	116	131	9	22 - 165	11 - 171	20	A11
Acetonitrile	550	602.7		110			550	0.00	632.1	695.6	115	127	10	15 - 171	10 - 182	20	
Acrolein	100	86.61		87			100	0.00	92.03	87.18	92	87	5	10 - 150	10 - 150	20	
Acrylonitrile	150	142.4		95			150	0.00	139.1	146	93	97	5	10 - 150	10 - 150	20	
Allyl chloride	100	79.78		80			100	0.00	79.53	83.1	80	83	4	30 - 155	34 - 153	20	
Benzene	50	42.75		86			50	0.00	41.89	43.35	84	87	3	70 - 135	60 - 144	20	
Bromodichloromethane	50	48.68		97			50	0.00	49.8	51.07	100	102	3	61 - 156	59 - 156	20	
Bromoform	50	58.5		117			50	0.00	58.9	60.95	118	122	3	56 - 154	50 - 153	20	
Bromomethane	50	37.07		74			50	0.00	37.63	38.9	75	78	3	44 - 158	37 - 165	20	
2-Butanone (MEK)	50	56.58		113			50	0.00	60.11	61.2	120	122	2	32 - 157	20 - 168	20	A11
Carbon disulfide	50	33.57		67			50	0.00	33.88	35.79	68	72	5	40 - 147	36 - 152	20	
Carbon tetrachloride	50	44.84		90			50	0.00	43.88	45.66	88	91	4	50 - 166	44 - 170	20	
Chlorobenzene	50	52.08		104			50	0.00	50.98	52.26	102	105	2	73 - 129	67 - 134	20	
Chloroethane	50	34.66		69			50	0.00	36.74	37.96	74	76	3	38 - 163	34 - 170	20	
Chloroform	50	49.83		100			50	0.00	51.51	52.18	103	104	1	71 - 133	64 - 140	20	
Chloromethane	50	27.68		55			50	0.00	26.86	28.89	54	58	7	32 - 149	22 - 163	20	
Chloroprene	50	42.01		84			50	0.00	40.54	41.03	81	82	1	50 - 141	51 - 134	20	
1,2-Dibromo-3-chloropropa	50	67.55		135			50	0.00	63.06	66.11	126	132	5	34 - 145	28 - 150	20	
Dibromochloromethane	50	57.95		116			50	0.00	58.87	60.17	118	120	2	63 - 147	58 - 147	20	
1,2-Dibromoethane (EDB)	50	65.19		130			50	0.00	66.64	68.2	133	136	2	60 - 147	55 - 149	20	
Dibromomethane	50	56.28		113			50	0.00	56.77	59.8	114	120	5	60 - 147	56 - 148	20	
trans-1,4-Dichloro-2-butene	100	118.8		119			100	0.00	120.6	129	121	129	7	17 - 178	21 - 164	20	
1,1-Dichloroethane	50	41.85		84			50	0.00	42.5	43.82	85	88	3	64 - 135	59 - 142	20	
1,2-Dichloroethane	50	54.46		109			50	0.00	54.8	56.71	110	113	3	53 - 164	51 - 161	20	
1,1-Dichloroethene	50	42.91		86			50	0.00	42.96	43.66	86	87	2	51 - 143	44 - 152	20	
trans-1,2-Dichloroethene	50	43.99		88			50	0.00	44.09	45.4	88	91	3	59 - 139	56 - 145	20	
1,2-Dichloropropane	50	44.88		90			50	0.00	44.12	45.56	88	91	3	69 - 135	66 - 138	20	
cis-1,3-Dichloropropene	50	51.36		103			50	0.00	51.2	53.45	102	107	4	66 - 141	58 - 142	20	
trans-1,3-Dichloropropene	50	53.67		107			50	0.00	55.68	57.28	111	115	3	57 - 150	50 - 151	20	
1,4-Dioxane (p-Dioxane)	1050	1541		147			1050	0.00	1577	1639	150	156	4	17 - 176	19 - 172	20	
Ethylbenzene	50	47.31		95			50	0.00	45.78	47.16	92	94	3	67 - 132	58 - 138	20	
Ethyl methacrylate	100	122.3		122			100	0.00	119.7	129.2	120	129	8	57 - 143	45 - 170	20	
2-Hexanone	50	61.57		123			50	0.00	64.75	68.4	130	137	5	36 - 154	25 - 163	20	
Iodomethane	50	47.7		95			50	0.00	47.38	48.64	95	97	3	43 - 159	36 - 160	20	
Isobutanol	1050	1152		110			1050	0.00	1134	1268	108	121	11	32 - 160	26 - 169	20	
Methacrylonitrile	550	646.8		118			550	0.00	646.2	702.6	118	128	8	10 - 171	10 - 167	20	
Methylene chloride	50	95.7		191 *			50	32.29	113.9	119.6	163 *	175 *	5	29 - 159	19 - 158	20	A11
Methyl methacrylate	100	124.9		125			100	0.00	123.9	133.8	124	134	8	52 - 167	11 - 212	20	
4-Methyl-2-pentanone (MI	50	63.63		127			50	0.00	63.08	67.95	126	136	7	13 - 162	10 - 157	20	

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Method: EPA 8260 **Project:** 2066418 **LCS:** 20500538 2/6/2007 11:03:00 PM

Batch: 81996 **MS:** 20499947 2/6/2007 5:04:00 PM

Units: ug/L **Original for MS:** 20499517 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Propionitrile	550	669.9		122			550	0.00	689.3	714.3	125	130	4	23 - 159	25 - 158	20	
Styrene	50	56.2		112			50	0.00	42.77	41.89	86	84	2	71 - 134	54 - 144	20	
1,1,1,2-Tetrachloroethane	50	55.02		110			50	0.00	54.89	56.39	110	113	3	73 - 146	65 - 150	20	
1,1,2,2-Tetrachloroethane	50	70.03		140			50	0.00	64.62	70.45	129	141	9	50 - 142	46 - 145	20	
Tetrachloroethene	50	47.64		95			50	0.00	44.11	44.86	88	90	2	42 - 156	39 - 151	20	
Toluene	50	45.22		90			50	0.00	44.71	45.98	89	92	3	72 - 132	64 - 139	20	
1,1,1-Trichloroethane	50	43.4		87			50	0.00	43.14	44.92	86	90	4	65 - 136	59 - 141	20	
1,1,2-Trichloroethane	50	57.01		114			50	0.00	58	60	116	120	3	67 - 144	60 - 146	20	
Trichloroethene	50	47.78		96			50	0.00	46.68	47.97	93	96	3	69 - 136	61 - 141	20	
Trichlorofluoromethane	50	39.17		78			50	0.00	40.35	41.72	81	83	3	42 - 161	38 - 160	20	
1,2,3-Trichloropropane	50	80.12		160 *			50	0.00	71.75	79.73	144	160 *	11	52 - 152	51 - 151	20	Q10
1,2,4-Trimethylbenzene	50	53.27		107			50	0.00	50.37	52.88	101	106	5	59 - 137	41 - 155	20	
1,3,5-Trimethylbenzene	50	50.32		101			50	0.00	46.58	49.02	93	98	5	69 - 135	55 - 150	20	
Vinyl acetate	50	125.4		251 *			50	0.00	113.7	121.6	227 *	243 *	7	21 - 190	10 - 185	20	Q10
Vinyl chloride	50	29.33		59			50	0.00	28.72	30.46	57	61	6	40 - 146	28 - 161	20	
m&p-Xylene	100	96.56		97			100	0.00	94.62	96.08	95	96	2	70 - 129	66 - 132	20	
o-Xylene	50	50.18		100			50	0.00	49.26	49.8	99	100	1	70 - 129	66 - 132	20	

56 compound(s) reported

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Method: EPA 8270 **Project:** 2066418 **LCS:** 20499172 2/2/2007 3:19:00 PM

Batch: 81846 **MS:** 20499173 2/2/2007 3:46:00 PM

Units: ug/L **Original for MS:** 20499117 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
bis(2-Ethylhexyl)phthalate	50	56.09		112			100	0.00	54.6	48.3	55	48	12	30 - 154	16 - 145	20	
4-Nitrophenol	50	37.28		75			100	0.00	75.2	77.02	75	77	2	25 - 140	10 - 158	20	
Pentachlorophenol	50	31.53		63			100	0.00	64.52	66.94	65	67	4	32 - 133	24 - 147	20	

3 compound(s) reported

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Method: EPA 8270 **Project:** 2066418 **LCS:** 20499291 2/5/2007 1:21:00 PM

Batch: 81863 **MS:** 20499292 2/5/2007 1:48:00 PM

Units: ug/L **Original for MS:** 20499245 Project Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
bis(2-Ethylhexyl)phthalate	50	40.25		81			50	0.00	35.81	35.15	72	70	2	30 - 154	16 - 145	20	
4-Nitrophenol	50	36.73		74			50	0.00	31.06	32.02	62	64	3	25 - 140	10 - 158	20	
Pentachlorophenol	50	28.98		58			50	0.00	23.72	23.91	47	48	1	32 - 133	24 - 147	20	

3 compound(s) reported

* denotes recovery outside of QC limits.
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(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Method: EPA 8270 **Project:** 2066418 **LCS:** 20499699 2/5/2007 12:26:00 PM

Batch: 81863 **MS:**

Units: ug/L **Original for MS:**

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
bis(2-Ethylhexyl)phthalate	50	51.93		104										30 - 154	-		
4-Nitrophenol	50	38.24		77										25 - 140	-		
Pentachlorophenol	50	33.84		68										32 - 133	-		

3 compound(s) reported

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Method: EPA 8270 **Project:** 2066418 **LCS:** 20500115 2/8/2007 4:15:00 PM

Batch: 81863 **MS:**

Units: ug/L **Original for MS:**

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
bis(2-Ethylhexyl)phthalate	50	24.95		50										30 - 154	-		
4-Nitrophenol	50	25.73		52										25 - 140	-		
Pentachlorophenol	50	29.23		59										32 - 133	-		

3 compound(s) reported

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LELAP # 02006

Report: 2066418 **Batch: 81846**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20499165	Sample	72	78	62	83	72	94		
20499166	Sample	60	76	53	85	66	71		
20499167	Sample	59	78	59	87	68	64		
20499168	Sample	72	81	63	60	74	71		
20499171	BLANK	72	79	67	63	79	100		
20499172	LCS	80	78	68	88	74	95		
20499173	MS	80	77	67	87	73	64		
20499174	MSD	78	76	68	87	75	56		
	QC limits:	25-133	36-108	10-109	21-120	15-113	17-130		

Sur 1: 2,4,6-Tribromophenol (S)
Sur 2: 2-Fluorobiphenyl (S)
Sur 3: 2-Fluorophenol (S)
Sur 4: Nitrobenzene-d5 (S)
Sur 5: Phenol-d5 (S)
Sur 6: Terphenyl-d14 (S)

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D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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Report: 2066418 **Batch: 81863**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20499245	OQS	34	69	31	76	40	74		
20499246	Sample	64	69	53	76	59	67		
20499247	Sample	53	59	49	61	58	63		
20499248	Sample	42	67	32	70	14 *	46		
20499249	Sample	59	71	57	76	67	65		
20499254	Sample	58	50	48	65	58	58		
20499290	BLANK	58	88	68	99	85	108		
20499291	LCS	74	79	64	86	73	91		
20499292	MS	48	64	52	72	59	67		
20499293	MSD	47	66	51	72	58	66		
20499589	Sample	53	64	54	64	54	47		
20499590	Sample	68	71	58	78	67	44		
20499591	Sample	64	67	56	76	61	53		
20499592	Sample	65	67	54	75	63	62		
20499698	BLANK	60	74	62	87	77	97		
20499699	LCS	82	79	70	89	78	94		
20500114	BLANK	68	74	71	71	68	62		
20500115	LCS	76	76	73	61	69	60		
QC limits:		25-133	36-108	10-109	21-120	15-113	17-130		

Sur 1: 2,4,6-Tribromophenol (S)
Sur 2: 2-Fluorobiphenyl (S)
Sur 3: 2-Fluorophenol (S)
Sur 4: Nitrobenzene-d5 (S)
Sur 5: Phenol-d5 (S)
Sur 6: Terphenyl-d14 (S)

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Report: 2066418 **Batch: 81894**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20499166	Sample	121	107	97					
20499167	Sample	122	110	99					
20499168	Sample	125	112	100					
20499169	Sample	121	110	100					
20499170	Sample	128	112	101					
20499245	OQS S1	133 *	107	101					
20499246	Sample	126	107	100					
20499247	Sample	123	107	100					
20499248	Sample D1	123	112	100					
20499249	Sample	127	112	99					
20499252	Sample S1	130 *	110	101					
20499253	Sample	126	110	100					
20499254	Sample	125	111	98					
20499544	BLANK	112	118	100					
20499545	LCS	103	100	102					
20499546	MS	105	104	102					
20499547	MSD	105	106	102					
20499738	BLANK	114	113	99					
20499739	LCS	104	100	102					
QC limits:		71-129	68-124	74-122					

Sur 1: 4-Bromofluorobenzene (S)
Sur 2: Dibromofluoromethane (S)
Sur 3: Toluene-d8 (S)

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Report: 2066418 **Batch: 81944**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20499709	Sample S1	130 *	113	100					
20499734	BLANK	114	117	100					
20499735	LCS	99	102	102					
20499736	MS	106	104	102					
20499737	MSD	106	104	102					
20499987	BLANK	113	117	100					
20499988	LCS	102	103	103					
	QC limits:	71-129	68-124	74-122					

Sur 1: 4-Bromofluorobenzene (S)
Sur 2: Dibromofluoromethane (S)
Sur 3: Toluene-d8 (S)

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Report: 2066418 **Batch: 81996**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20499589	Sample	123	104	100					
20499590	Sample	129	106	99					
20499591	Sample	128	109	100					
20499592	Sample	125	109	100					
20499945	BLANK	120	120	101					
20499946	LCS	101	105	104					
20499947	MS	102	108	104					
20499948	MSD	105	105	104					
20500537	BLANK	120	115	102					
20500538	LCS	104	103	103					
	QC limits:	71-129	68-124	74-122					

Sur 1: 4-Bromofluorobenzene (S)
Sur 2: Dibromofluoromethane (S)
Sur 3: Toluene-d8 (S)

3/8/2007 10:32:44

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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Lab ID: 20499171
Description: 8270 SVOAs Water
Project No.: 2066418
Method: EPA 8270
Batch: 81846
Units: ug/L

Prep Factor: 1
Leached:
Prepared: 01-Feb-07
Analyzed: 02/02/07 14:52 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
83-32-9	Acenaphthene	1	ND		10.0
208-96-8	Acenaphthylene	1	ND		10.0
98-86-2	Acetophenone	1	ND		10.0
120-12-7	Anthracene	1	ND		10.0
1912-24-9	Atrazine	1	ND		10.0
56-55-3	Benzo(a)anthracene	1	ND		10.0
205-99-2	Benzo(b)fluoranthene	1	ND		10.0
207-08-9	Benzo(k)fluoranthene	1	ND		10.0
191-24-2	Benzo(g,h,i)perylene	1	ND		10.0
50-32-8	Benzo(a)pyrene	1	ND		10.0
218-01-9	Chrysene	1	ND		10.0
21725-46-2	Cyanazine	1	ND		10.0
53-70-3	Dibenz(a,h)anthracene	1	ND		10.0
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		10.0
206-44-0	Fluoranthene	1	ND		10.0
86-73-7	Fluorene	1	ND		10.0
193-39-5	Indeno(1,2,3-cd)pyrene	1	ND		10.0
91-57-6	2-Methylnaphthalene	1	ND		10.0
91-20-3	Naphthalene	1	ND		10.0
100-02-7	4-Nitrophenol	1	ND		10.0
87-86-5	Pentachlorophenol	1	ND		10.0
85-01-8	Phenanthrene	1	ND		10.0
129-00-0	Pyrene	1	ND		10.0

23 compound(s) reported

3/8/2007 10:32:47

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Lab ID: 20499290
Description: 8270 SVOAs Water **Project No.:** 2066418
Method: EPA 8270 **Batch:** 81863 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 02-Feb-07 **Analyzed:** 02/05/07 12:54 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
98-86-2	Acetophenone	1	ND		10.0
1912-24-9	Atrazine	1	ND		10.0
21725-46-2	Cyanazine	1	ND		10.0
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		10.0
100-02-7	4-Nitrophenol	1	ND		10.0
87-86-5	Pentachlorophenol	1	ND		10.0

6 compound(s) reported

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Lab ID: 20499544

Description: 8260 VOAs Full List Water BLK **Project No.:** 2066418

Method: EPA 8260 **Batch:** 81894 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 02-Feb-07 **Analyzed:** 02/02/07 16:57 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
67-64-1	Acetone	1	ND	A11	10.0
75-05-8	Acetonitrile	1	ND		100.
107-02-8	Acrolein	1	ND		20.0
107-13-1	Acrylonitrile	1	ND		20.0
107-05-1	Allyl chloride	1	ND		10.0
71-43-2	Benzene	1	ND		5.00
75-27-4	Bromodichloromethane	1	ND		5.00
75-25-2	Bromoform	1	ND		5.00
74-83-9	Bromomethane	1	ND		5.00
78-93-3	2-Butanone (MEK)	1	ND	A11	10.0
75-15-0	Carbon disulfide	1	ND		5.00
56-23-5	Carbon tetrachloride	1	ND		5.00
108-90-7	Chlorobenzene	1	ND		5.00
75-00-3	Chloroethane	1	ND		5.00
67-66-3	Chloroform	1	ND		5.00
74-87-3	Chloromethane	1	ND		5.00
126-99-8	Chloroprene	1	ND		5.00
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.00
124-48-1	Dibromochloromethane	1	ND		5.00
106-93-4	1,2-Dibromoethane (EDB)	1	ND		5.00
74-95-3	Dibromomethane	1	ND		5.00
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		5.00
75-71-8	Dichlorodifluoromethane	1	ND		5.00
75-34-3	1,1-Dichloroethane	1	ND		5.00
107-06-2	1,2-Dichloroethane	1	ND		5.00
75-35-4	1,1-Dichloroethene	1	ND		5.00
156-59-2	cis-1,2-Dichloroethene	1	ND		5.00
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00
78-87-5	1,2-Dichloropropane	1	ND		5.00
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		250.
100-41-4	Ethylbenzene	1	ND		5.00
97-63-2	Ethyl methacrylate	1	ND		10.0
591-78-6	2-Hexanone	1	ND		10.0
74-88-4	Iodomethane	1	ND		5.00

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Lab ID: 20499544
Description: 8260 VOAs Full List Water BLK **Project No.:** 2066418
Method: EPA 8260 **Batch:** 81894 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 02-Feb-07 **Analyzed:** 02/02/07 16:57 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
78-83-1	Isobutanol	1	ND		250.
98-82-8	Isopropylbenzene (Cumene)	1	ND		5.00
126-98-7	Methacrylonitrile	1	ND		100.
79-20-9	Methyl acetate	1	ND		10.0
75-09-2	Methylene chloride	1	ND	A11	5.00
80-62-6	Methyl methacrylate	1	ND		10.0
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0
1634-04-4	Methyl-tert-butyl ether	1	ND		5.00
107-12-0	Propionitrile	1	ND		20.0
100-42-5	Styrene	1	ND		5.00
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.00
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00
127-18-4	Tetrachloroethene	1	ND		5.00
108-88-3	Toluene	1	ND		5.00
71-55-6	1,1,1-Trichloroethane	1	ND		5.00
79-00-5	1,1,2-Trichloroethane	1	ND		5.00
79-01-6	Trichloroethene	1	ND		5.00
75-69-4	Trichlorofluoromethane	1	ND		5.00
96-18-4	1,2,3-Trichloropropane	1	ND		5.00
95-63-6	1,2,4-Trimethylbenzene	1	ND		5.00
108-67-8	1,3,5-Trimethylbenzene	1	ND		5.00
108-05-4	Vinyl acetate	1	ND		10.0
75-01-4	Vinyl chloride	1	ND		5.00
	m&p-Xylene	1	ND		5.00
95-47-6	o-Xylene	1	ND		5.00

61 compound(s) reported

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Lab ID: 20499698

Description: 8270 SVOAs Water **Project No.:** 2066418

Method: EPA 8270 **Batch:** 81863 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 03-Feb-07 **Analyzed:** 02/05/07 12:00 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
98-86-2	Acetophenone	1	ND		10.0
1912-24-9	Atrazine	1	ND		10.0
21725-46-2	Cyanazine	1	ND		10.0
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		10.0
100-02-7	4-Nitrophenol	1	ND		10.0
87-86-5	Pentachlorophenol	1	ND		10.0

6 compound(s) reported

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Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Lab ID: 20499734

Description: 8260 VOAs Full List Water BLK **Project No.:** 2066418

Method: EPA 8260 **Batch:** 81944 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 04-Feb-07 **Analyzed:** 02/04/07 20:03 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
67-64-1	Acetone	1	ND	A11	10.0
75-05-8	Acetonitrile	1	ND		100.
107-02-8	Acrolein	1	ND		20.0
107-13-1	Acrylonitrile	1	ND		20.0
107-05-1	Allyl chloride	1	ND		10.0
71-43-2	Benzene	1	ND		5.00
75-27-4	Bromodichloromethane	1	ND		5.00
75-25-2	Bromoform	1	ND		5.00
74-83-9	Bromomethane	1	ND		5.00
78-93-3	2-Butanone (MEK)	1	ND	A11	10.0
75-15-0	Carbon disulfide	1	ND		5.00
56-23-5	Carbon tetrachloride	1	ND		5.00
108-90-7	Chlorobenzene	1	ND		5.00
75-00-3	Chloroethane	1	ND		5.00
67-66-3	Chloroform	1	ND		5.00
74-87-3	Chloromethane	1	ND		5.00
126-99-8	Chloroprene	1	ND		5.00
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.00
124-48-1	Dibromochloromethane	1	ND		5.00
106-93-4	1,2-Dibromoethane (EDB)	1	ND		5.00
74-95-3	Dibromomethane	1	ND		5.00
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		5.00
75-71-8	Dichlorodifluoromethane	1	ND		5.00
75-34-3	1,1-Dichloroethane	1	ND		5.00
107-06-2	1,2-Dichloroethane	1	ND		5.00
75-35-4	1,1-Dichloroethene	1	ND		5.00
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00
78-87-5	1,2-Dichloropropane	1	ND		5.00
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		250.
100-41-4	Ethylbenzene	1	ND		5.00
97-63-2	Ethyl methacrylate	1	ND		10.0
591-78-6	2-Hexanone	1	ND		10.0
74-88-4	Iodomethane	1	ND		5.00
78-83-1	Isobutanol	1	ND		250.

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Lab ID: 20499734

Description: 8260 VOAs Full List Water BLK **Project No.:** 2066418

Method: EPA 8260 **Batch:** 81944 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 04-Feb-07 **Analyzed:** 02/04/07 20:03 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
98-82-8	Isopropylbenzene (Cumene)	1	ND		5.00
126-98-7	Methacrylonitrile	1	ND		100.
75-09-2	Methylene chloride	1	ND	A11	5.00
80-62-6	Methyl methacrylate	1	ND		10.0
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0
107-12-0	Propionitrile	1	ND		20.0
100-42-5	Styrene	1	ND		5.00
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.00
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00
127-18-4	Tetrachloroethene	1	ND		5.00
108-88-3	Toluene	1	ND		5.00
71-55-6	1,1,1-Trichloroethane	1	ND		5.00
79-00-5	1,1,2-Trichloroethane	1	ND		5.00
79-01-6	Trichloroethene	1	ND		5.00
75-69-4	Trichlorofluoromethane	1	ND		5.00
96-18-4	1,2,3-Trichloropropane	1	ND		5.00
95-63-6	1,2,4-Trimethylbenzene	1	ND		5.00
108-67-8	1,3,5-Trimethylbenzene	1	ND		5.00
108-05-4	Vinyl acetate	1	ND		10.0
75-01-4	Vinyl chloride	1	ND		5.00
	m&p-Xylene	1	ND		5.00
95-47-6	o-Xylene	1	ND		5.00

58 compound(s) reported

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Lab ID: 20499738
Description: 8260 VOAs Full List Water BLK **Project No.:** 2066418
Method: EPA 8260 **Batch:** 81894 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 04-Feb-07 **Analyzed:** 02/04/07 13:18 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
67-64-1	Acetone	1	ND	A11	10.0
75-05-8	Acetonitrile	1	ND		100.
107-02-8	Acrolein	1	ND		20.0
107-13-1	Acrylonitrile	1	ND		20.0
107-05-1	Allyl chloride	1	ND		10.0
71-43-2	Benzene	1	ND		5.00
75-27-4	Bromodichloromethane	1	ND		5.00
75-25-2	Bromoform	1	ND		5.00
74-83-9	Bromomethane	1	ND		5.00
78-93-3	2-Butanone (MEK)	1	ND	A11	10.0
75-15-0	Carbon disulfide	1	ND		5.00
56-23-5	Carbon tetrachloride	1	ND		5.00
108-90-7	Chlorobenzene	1	ND		5.00
75-00-3	Chloroethane	1	ND		5.00
67-66-3	Chloroform	1	ND		5.00
74-87-3	Chloromethane	1	ND		5.00
126-99-8	Chloroprene	1	ND		5.00
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.00
124-48-1	Dibromochloromethane	1	ND		5.00
106-93-4	1,2-Dibromoethane (EDB)	1	ND		5.00
74-95-3	Dibromomethane	1	ND		5.00
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		5.00
75-71-8	Dichlorodifluoromethane	1	ND		5.00
75-34-3	1,1-Dichloroethane	1	ND		5.00
107-06-2	1,2-Dichloroethane	1	ND		5.00
75-35-4	1,1-Dichloroethene	1	ND		5.00
156-59-2	cis-1,2-Dichloroethene	1	ND		5.00
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00
78-87-5	1,2-Dichloropropane	1	ND		5.00
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		250.
100-41-4	Ethylbenzene	1	ND		5.00
97-63-2	Ethyl methacrylate	1	ND		10.0
591-78-6	2-Hexanone	1	ND		10.0
74-88-4	Iodomethane	1	ND		5.00

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Lab ID: 20499738

Description: 8260 VOAs Full List Water BLK **Project No.:** 2066418

Method: EPA 8260 **Batch:** 81894 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 04-Feb-07 **Analyzed:** 02/04/07 13:18 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
78-83-1	Isobutanol	1	ND		250.
98-82-8	Isopropylbenzene (Cumene)	1	ND		5.00
126-98-7	Methacrylonitrile	1	ND		100.
79-20-9	Methyl acetate	1	ND		10.0
75-09-2	Methylene chloride	1	ND	A11	5.00
80-62-6	Methyl methacrylate	1	ND		10.0
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0
1634-04-4	Methyl-tert-butyl ether	1	ND		5.00
107-12-0	Propionitrile	1	ND		20.0
100-42-5	Styrene	1	ND		5.00
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.00
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00
127-18-4	Tetrachloroethene	1	ND		5.00
108-88-3	Toluene	1	ND		5.00
71-55-6	1,1,1-Trichloroethane	1	ND		5.00
79-00-5	1,1,2-Trichloroethane	1	ND		5.00
79-01-6	Trichloroethene	1	ND		5.00
75-69-4	Trichlorofluoromethane	1	ND		5.00
96-18-4	1,2,3-Trichloropropane	1	ND		5.00
95-63-6	1,2,4-Trimethylbenzene	1	ND		5.00
108-67-8	1,3,5-Trimethylbenzene	1	ND		5.00
108-05-4	Vinyl acetate	1	ND		10.0
75-01-4	Vinyl chloride	1	ND		5.00
	m&p-Xylene	1	ND		5.00
95-47-6	o-Xylene	1	ND		5.00

61 compound(s) reported

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20500114
Description: 8270 SVOAs Water **Project No.:** 2066418
Method: EPA 8270 **Batch:** 81863 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 07-Feb-07 **Analyzed:** 02/08/07 15:47 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
98-86-2	Acetophenone	1	ND		10.0
1912-24-9	Atrazine	1	ND		10.0
21725-46-2	Cyanazine	1	ND		10.0
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		10.0
100-02-7	4-Nitrophenol	1	ND		10.0
87-86-5	Pentachlorophenol	1	ND		10.0

6 compound(s) reported

3/8/2007 10:32:48

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Lab ID: 20500537
Description: 8260 VOAs Full List Water BLK **Project No.:** 2066418
Method: EPA 8260 **Batch:** 81996 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 06-Feb-07 **Analyzed:** 02/06/07 22:41 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
67-64-1	Acetone	1	36.1	A11	10.0
75-05-8	Acetonitrile	1	ND		100.
107-02-8	Acrolein	1	ND		20.0
107-13-1	Acrylonitrile	1	ND		20.0
107-05-1	Allyl chloride	1	ND		10.0
71-43-2	Benzene	1	ND		5.00
75-27-4	Bromodichloromethane	1	ND		5.00
75-25-2	Bromoform	1	ND		5.00
74-83-9	Bromomethane	1	ND		5.00
78-93-3	2-Butanone (MEK)	1	ND	A11	10.0
75-15-0	Carbon disulfide	1	ND		5.00
56-23-5	Carbon tetrachloride	1	ND		5.00
108-90-7	Chlorobenzene	1	ND		5.00
75-00-3	Chloroethane	1	ND		5.00
67-66-3	Chloroform	1	ND		5.00
74-87-3	Chloromethane	1	ND		5.00
126-99-8	Chloroprene	1	ND		5.00
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.00
124-48-1	Dibromochloromethane	1	ND		5.00
106-93-4	1,2-Dibromoethane (EDB)	1	ND		5.00
74-95-3	Dibromomethane	1	ND		5.00
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		5.00
75-71-8	Dichlorodifluoromethane	1	ND		5.00
75-34-3	1,1-Dichloroethane	1	ND		5.00
107-06-2	1,2-Dichloroethane	1	ND		5.00
75-35-4	1,1-Dichloroethene	1	ND		5.00
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00
78-87-5	1,2-Dichloropropane	1	ND		5.00
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		250.
100-41-4	Ethylbenzene	1	ND		5.00
97-63-2	Ethyl methacrylate	1	ND		10.0
591-78-6	2-Hexanone	1	ND		10.0
74-88-4	Iodomethane	1	ND		5.00
78-83-1	Isobutanol	1	ND		250.

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Lab ID: 20500537
Description: 8260 VOAs Full List Water BLK **Project No.:** 2066418
Method: EPA 8260 **Batch:** 81996 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 06-Feb-07 **Analyzed:** 02/06/07 22:41 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
126-98-7	Methacrylonitrile	1	ND		100.
75-09-2	Methylene chloride	1	ND	A11	5.00
80-62-6	Methyl methacrylate	1	ND		10.0
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0
107-12-0	Propionitrile	1	ND		20.0
100-42-5	Styrene	1	ND		5.00
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.00
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00
127-18-4	Tetrachloroethene	1	ND		5.00
108-88-3	Toluene	1	ND		5.00
71-55-6	1,1,1-Trichloroethane	1	ND		5.00
79-00-5	1,1,2-Trichloroethane	1	ND		5.00
79-01-6	Trichloroethene	1	ND		5.00
75-69-4	Trichlorofluoromethane	1	ND		5.00
96-18-4	1,2,3-Trichloropropane	1	ND		5.00
95-63-6	1,2,4-Trimethylbenzene	1	ND		5.00
108-67-8	1,3,5-Trimethylbenzene	1	ND		5.00
108-05-4	Vinyl acetate	1	ND		10.0
75-01-4	Vinyl chloride	1	ND		5.00
	m&p-Xylene	1	ND		5.00
95-47-6	o-Xylene	1	ND		5.00

57 compound(s) reported

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LELAP # 02006

Method: EPA 8151 **Project:** 2066418 **LCS:** 20499741 2/8/2007 1:52:00 AM

Batch: 81945 **MS:** 20499742 2/8/2007 5:04:00 AM

Units: ug/L **Original for MS:** 20499297 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Dinoseb	5	2.943		59			5		4.022	1.499				10 - 146	10 - 151	20	

1 compound(s) reported

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* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Method: EPA 8151 **Project:** 2066418 **LCS:** 20500277 2/14/2007 11:47:00 PM

Batch: 81945 **MS:**

Units: ug/L **Original for MS:**

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Dinoseb	5	5.826		117										10 - 146	-		

1 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Method: EPA 8151 **Project:** 2066418 **LCS:** 20499745 2/22/2007 10:57:00 PM

Batch: 81946 **MS:** 20499746 2/23/2007 12:19:00 AM

Units: ug/L **Original for MS:** 20499245 Project Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Dinoseb	5	0.284		6 *			5	0.00	5.636	2.562	113	51	75 *	10 - 146	10 - 151	20	

1 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Method: EPA 8151 **Project:** 2066418 **LCS:** 20504158 3/2/2007 12:15:00 PM

Batch: 82817 **MS:**

Units: ug/L **Original for MS:**

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Dinoseb	5	0.082		2 *										10 - 146	-		

1 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Phone: 504.469.0333
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LELAP # 02006

Report: 2066418 **Batch: 81726**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20498272	BLANK	65	67	49	50				
20498273	LCS	64	66	52	52				
20499165	Sample	71	53	49	52				
20499166	Sample	78	58	83	85				
20499167	Sample	93	66	64	67				
20499168	Sample	81	78	64	65				
20499243	BLANK	61	61	56	56				
20499244	LCS	58	58	56	54				
	QC limits:	10-157	10-157	18-171	18-171				

Sur 1: Decachlorobiphenyl (Conf)(S)
Sur 2: Decachlorobiphenyl (S)
Sur 3: Tetrachloro-m-xylene (Conf)(S)
Sur 4: Tetrachloro-m-xylene (S)

*** denotes surrogate recovery outside of QC limits.**
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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LELAP # 02006

Report: 2066418 **Batch: 81945**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20499165	Sample	81	82						
20499166	Sample	81	85						
20499167	Sample	74	79						
20499168	Sample	74	78						
20499297	OQS	89	104						
20499589	Sample	62	58						
20499590	Sample	69	75						
20499591	Sample	91	83						
20499592	Sample	105	105						
20499740	BLANK	89	89						
20499741	LCS	89	93						
20499742	MS	49	50						
20499743	MSD	28	25						
20500276	BLANK	111	102						
20500277	LCS	109	107						
	QC limits:	10-181	10-181						

Sur 1: 2,4-DCPA (Conf)(S)
Sur 2: 2,4-DCPA (S)

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A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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Report: 2066418 **Batch: 81946**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20499245	OQS	18	26						
20499246	Sample	25	31						
20499247	Sample	10	13						
20499248	Sample N	6 *	0 *						
20499249	Sample	17	22						
20499254	Sample	46	52						
20499744	BLANK	15	18						
20499745	LCS	43	52						
20499746	MS	54	90						
20499747	MSD	15	18						
20500274	BLANK	100	103						
20500275	LCS	119	109						
	QC limits:	10-181	10-181						

Sur 1: 2,4-DCPA (Conf)(S)
Sur 2: 2,4-DCPA (S)

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A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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Phone: 504.469.0333
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LELAP # 02006

Report: 2066418 **Batch: 82037**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20499245	OQS	73	63	51	56				
20499246	Sample	70	47	56	58				
20499247	Sample	68	60	49	60				
20499248	Sample G1	71	60	69	302 *				
20499249	Sample	99	56	58	61				
20499254	Sample	57	55	44	58				
20500153	BLANK	48	50	31	31				
20500154	LCS	58	59	51	52				
20500155	MS	70	38	47	50				
20500156	MSD	68	51	46	51				
	QC limits:	10-157	10-157	18-171	18-171				

Sur 1: Decachlorobiphenyl (Conf)(S)
Sur 2: Decachlorobiphenyl (S)
Sur 3: Tetrachloro-m-xylene (Conf)(S)
Sur 4: Tetrachloro-m-xylene (S)

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A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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LELAP # 02006

Report: 2066418 **Batch: 82082**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20499589	Sample	67	61	56	57				
20499590	Sample	68	54	54	56				
20499591	Sample	66	53	63	64				
20499592	Sample	83	81	61	63				
20500429	BLANK	71	67	57	56				
20500430	LCS	45	45	36	34				
	QC limits:	10-157	10-157	18-171	18-171				

Sur 1: Decachlorobiphenyl (Conf)(S)
Sur 2: Decachlorobiphenyl (S)
Sur 3: Tetrachloro-m-xylene (Conf)(S)
Sur 4: Tetrachloro-m-xylene (S)

*** denotes surrogate recovery outside of QC limits.**
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A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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Fax: 504.469.0555
LELAP # 02006

Report: 2066418 **Batch: 82817**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20499248	Sample N,S1	137	250 *						
20504157	BLANK	113	110						
20504158	LCS	112	108						
	QC limits:	10-181	10-181						

Sur 1: 2,4-DCPA (Conf)(S)
Sur 2: 2,4-DCPA (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

3/8/2007 10:32:55

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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Report of Method Blank

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20499243
Description: 8081 Pests Water **Project No.:** 2066418
Method: EPA 8081 **Batch:** 81726 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 01-Feb-07 **Analyzed:** 02/12/07 14:11 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
309-00-2	Aldrin	1	ND		0.0500
319-84-6	alpha-BHC	1	ND		0.0500
319-85-7	beta-BHC	1	ND		0.0500
319-86-8	delta-BHC	1	ND		0.0500
58-89-9	gamma-BHC (Lindane)	1	ND		0.0500
5103-71-9	alpha-Chlordane	1	ND		0.0500
5103-74-2	gamma-Chlordane	1	ND		0.0500
72-54-8	4,4'-DDD	1	ND		0.100
72-55-9	4,4'-DDE	1	ND		0.100
50-29-3	4,4'-DDT	1	ND		0.100
60-57-1	Dieldrin	1	ND		0.100
959-98-8	Endosulfan I	1	ND		0.0500
33213-65-9	Endosulfan II	1	ND		0.100
1031-07-8	Endosulfan sulfate	1	ND		0.100
72-20-8	Endrin	1	ND		0.100
7421-93-4	Endrin aldehyde	1	ND		0.100
53494-70-5	Endrin ketone	1	ND		0.100
76-44-8	Heptachlor	1	ND		0.0500
1024-57-3	Heptachlor epoxide	1	ND		0.0500
72-43-5	Methoxychlor	1	ND		0.500
8001-35-2	Toxaphene	1	ND		2.00

21 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/8/2007 10:32:58

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20499740
Description: 8151 Herbs Water **Project No.:** 2066418
Method: EPA 8151 **Batch:** 81945 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 06-Feb-07 **Analyzed:** 02/08/07 01:24 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
94-75-7	2,4-D	1	ND		2.00
127-20-8	Dalapon	1	ND		10.0
94-82-6	2,4-DB	1	ND		5.00
1918-00-9	Dicamba	1	ND		0.500
120-36-5	Dichloroprop	1	ND		2.00
88-85-7	Dinoseb	1	ND		2.00
94-74-6	MCPA	1	ND		250.
7085-19-0	MCPP	1	ND		250.
93-76-5	2,4,5-T	1	ND		0.500
93-72-1	2,4,5-TP (Silvex)	1	ND		0.500

10 compound(s) reported

3/8/2007 10:32:58

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

New Orleans Laboratory Certifications
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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20499744
Description: 8151 Herbs Water **Project No.:** 2066418
Method: EPA 8151 **Batch:** 81946 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 06-Feb-07 **Analyzed:** 02/22/07 21:34 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
94-75-7	2,4-D	1	ND		2.00
127-20-8	Dalapon	1	ND		10.0
94-82-6	2,4-DB	1	ND		5.00
1918-00-9	Dicamba	1	ND		0.500
120-36-5	Dichloroprop	1	ND		2.00
88-85-7	Dinoseb	1	ND		2.00
94-74-6	MCPA	1	ND		250.
7085-19-0	MCPP	1	ND		250.
93-76-5	2,4,5-T	1	ND		0.500
93-72-1	2,4,5-TP (Silvex)	1	ND		0.500

10 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/8/2007 10:32:58

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20500153

Description: 8081 Pests Water **Project No.:** 2066418

Method: EPA 8081 **Batch:** 82037 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 07-Feb-07 **Analyzed:** 02/14/07 15:51 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
8001-35-2	Toxaphene	1	ND		2.00

1 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/8/2007 10:32:58

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20500276
Description: 8151 Herbs Water **Project No.:** 2066418
Method: EPA 8151 **Batch:** 81945 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 08-Feb-07 **Analyzed:** 02/14/07 23:20 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
94-75-7	2,4-D	1	ND		2.00
127-20-8	Dalapon	1	ND		10.0
94-82-6	2,4-DB	1	ND		5.00
1918-00-9	Dicamba	1	ND		0.500
120-36-5	Dichloroprop	1	ND		2.00
88-85-7	Dinoseb	1	ND		2.00
94-74-6	MCPA	1	ND		250.
7085-19-0	MCPP	1	ND		250.
93-76-5	2,4,5-T	1	ND		0.500
93-72-1	2,4,5-TP (Silvex)	1	ND		0.500

10 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/8/2007 10:32:58

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Phone: 504.469.0333
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LELAP # 02006

Lab ID: 20500429
Description: 8081 Pests Water **Project No.:** 2066418
Method: EPA 8081 **Batch:** 82082 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 08-Feb-07 **Analyzed:** 02/13/07 11:48 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
309-00-2	Aldrin	1	ND		0.0500
319-84-6	alpha-BHC	1	ND		0.0500
319-85-7	beta-BHC	1	ND		0.0500
319-86-8	delta-BHC	1	ND		0.0500
58-89-9	gamma-BHC (Lindane)	1	ND		0.0500
5103-71-9	alpha-Chlordane	1	ND		0.0500
5103-74-2	gamma-Chlordane	1	ND		0.0500
72-54-8	4,4'-DDD	1	ND		0.100
72-55-9	4,4'-DDE	1	ND		0.100
50-29-3	4,4'-DDT	1	ND		0.100
60-57-1	Dieldrin	1	ND		0.100
959-98-8	Endosulfan I	1	ND		0.0500
33213-65-9	Endosulfan II	1	ND		0.100
1031-07-8	Endosulfan sulfate	1	ND		0.100
72-20-8	Endrin	1	ND		0.100
7421-93-4	Endrin aldehyde	1	ND		0.100
53494-70-5	Endrin ketone	1	ND		0.100
76-44-8	Heptachlor	1	ND		0.0500
1024-57-3	Heptachlor epoxide	1	ND		0.0500
72-43-5	Methoxychlor	1	ND		0.500
8001-35-2	Toxaphene	1	ND		2.00

21 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/8/2007 10:32:58

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Phone: 504.469.0333
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LELAP # 02006

Lab ID: 20504157
Description: 8151 Herbs Water **Project No.:** 2066418
Method: EPA 8151 **Batch:** 82817 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 27-Feb-07 **Analyzed:** 03/02/07 11:47 SPP1 (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
94-75-7	2,4-D	1	ND		2.00
127-20-8	Dalapon	1	ND		10.0
94-82-6	2,4-DB	1	ND		5.00
1918-00-9	Dicamba	1	ND		0.500
120-36-5	Dichloroprop	1	ND		2.00
88-85-7	Dinoseb	1	ND		2.00
94-74-6	MCPA	1	ND		250.
7085-19-0	MCPP	1	ND		250.
93-76-5	2,4,5-T	1	0.541		0.500
93-72-1	2,4,5-TP (Silvex)	1	ND		0.500

10 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/8/2007 10:32:58

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
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Florida Dept. of Health (NELAC) - E87595
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Report of Quality Control

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2066418

Parameter	Batch	Blank	ARL	Units	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS DUP RPD	QC Limits LCS	QC Limits MS/MSD	RPD Max	Qu
Arsenic	81950	ND	10.0	ug/L	1000	100			1000	92	93	1	79 - 122	68 - 130	20	
Arsenic, Disso	81961	ND	10.0	ug/L	1000	97			1000	83	88	5	72 - 116	60 - 123	20	

3/8/2007 10:33:02

ARL denotes Adjusted Reporting Limit , corrected for sample size, dilution and moisture content as applicable.
* denotes recovery outside of QC limits.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

New Orleans Laboratory Certifications
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Report Qualifiers

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2066418

ALL Qualifiers

Qualifier	Qualifier Description
N	See narrative for a detailed explanation.

Analyte Qualifiers

Qualifier	Qualifier Description
A11	This analyte is a common solvent. Its presence in field samples may be an artifact of sample collection, transport, laboratory storage or analysis.
B	This analyte was detected in the method blank.
G1	Interferences are present which caused poor surrogate recovery.
J	This estimated value for the analyte is below the adjusted reporting limit but above the instrument reporting limit.

General Qualifiers

Qualifier	Qualifier Description
D1	The analysis was performed at a dilution due to the high analyte concentration.

QC Qualifiers

Qualifier	Qualifier Description
Q10	The spike recovery was above the laboratory QC limits, however, the data are reported without qualification since the target analyte was not detected in the corresponding samples.
S1	The surrogate recovery was above the QC limit. The data are reported without qualification since the associated target analytes were not detected in the sample.

New Orleans Laboratory Certifications
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Arkansas Dept. of Environmental Quality - 88-0681
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ARCADIS

Laboratory Task Order No./P.O. No. _____ **CHAIN-OF-CUSTODY RECORD** Page 1 of 1

2066418

Project Number/Name: Miss Blvd / LA002656.0001.00013

Project Location: Vicksburg, MS

Laboratory: PACE

Project Manager: Cross Dorsey

Sampler(s)/Affiliation: G. Cook, J. Nolan, C. Fontenot

Cooler #15

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE: 5 VOCs (8270) App IX 1-1-tr Amb / 4 oz	0. Pesticides (8081) 1-1-tr Amber / 4 oz	0. Herbicides (8151) 1-1-tr Amber / 4 oz	T. Metals 1-1-tr Amber / 4 oz	D. Metals 250 ml plastic / HNO3 / 4 oz	250 ml plastic / 4 oz	Remarks	Total
PZ-23A (020107)	L	02-01-07 1030		3	2	2	1	1		~~2049467~~ Cancelled on other COC as 2049491	9

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers: 9

						Seal Intact?
Relinquished by:	George Cook	Organization:	Arcadis	Date: 02/02/07	Time: 1630	
Received by:	[signature]	Organization:	PACE	Date: 2/2/07	Time: 1630	Yes No N/A
Relinquished by:	[signature]	Organization:	PACE	Date: 2/2/07	Time: 1820	Seal Intact?
Received by:	[signature]	Organization:	PACE	Date: 2/2/07	Time: 1820	Yes No N/A

Special Instructions/Remarks:

* Lab to filter Dissolved Metals

Range 2-4 - 2/0

Delivery Method: ☒ In Person ☐ Common Carrier _____ SPECIFY ☒ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

ARCADIS

Laboratory Task Order No./P.O. No. _____ **CHAIN-OF-CUSTODY RECORD** Page 1 of 1

Project Number/Name Miss Bluff/LA002656.0001.00013

Project Location Vicksburg, MS

Laboratory PACE

Project Manager Wes Douglas Dawson

Sampler(s)/Affiliation G. Cook, J. Nolan, C. Fontenot

Cooler #6

2066418

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	SVOCs (8270) 1-L-Amber/4°C	0. Pesticides (8081) 1-L-Amber/4°C	0. Herbicides (8151) 1-L-Amber/4°C	T. Metals 1-L-Amber/4°C	Dissolved Metals 250ml/Plastic/HNO3/4°C	Dissolved Metals 250ml/Plastic/4°C	Remarks	Total
PZ-12A(013107)	L	01-31-07 1108		3	2	2	1	1		20499245	9

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers 9

Relinquished by: George Elcock	Organization: Stantec	Date 01/31/07	Time 1830	Seal Intact?	
Received by: Fed Ex	Organization:	Date / /	Time	Yes No N/A	
Relinquished by: RBosarge	Organization: Pace	Date 2/1/07	Time 0900	Seal Intact?	
Received by:	Organization:	Date / /	Time	(Yes) No N/A	

Special Instructions/Remarks:

* Lab to filter Dissolved Metals

2.7°

Delivery Method: ☐ In Person ☒ Common Carrier Fed Ex (SPECIFY) ☐ Lab Courier ☐ Other _____ (SPECIFY)

AG 05-12/01

ARCADIS

Laboratory Task Order No./P.O. No. ____________ **CHAIN-OF-CUSTODY RECORD** Page 1 of 1

2066418

Cooler #14

Project Number/Name: Miss Bluffs/CA002656.0001.00013

Project Location: Vicksburg, Ms.

Laboratory: PACE

Project Manager: Chris Dereoun

Sampler(s)/Affiliation: G. Cook, J. Trelan, C. Fontant

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	SVOC's (8270) Add X 1-Liter Amber/4°C	O. Pesticides (8081) 1-Liter Amber/4°C	O. Herbicides (8151) 1-Liter Amber/4°C	T. Metals 250ml plastic/HNO3/4°C	D. Metals 250ml plastic/4°C		Remarks	Total
PZ-21A(020107)	L	02-01-07 0930		3	2	2	1	1		20499590	9

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers: 9

Relinquished by: George Cook	Organization: Arcadis	Date 02/02/07	Time 1630	Seal Intact?
Received by: [signature]	Organization: Pace	Date 2/2/07	Time 1630	(Yes) No N/A
Relinquished by: [signature]	Organization: Pace	Date 2/2/07	Time 1820	Seal Intact?
Received by: [signature]	Organization: PACE	Date 2/2/07	Time 1820	(Yes) No N/A

Special Instructions/Remarks:

X Lab to filter Dissolved Metals

Delivery Method: ☒ In Person ☐ Common Carrier ____ (SPECIFY) ☒ Lab Courier ☐ Other ____ (SPECIFY)

AG 05-12/01

ARCADIS

Laboratory Task Order No./P.O. No. ____________

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

2066418

Cooler #16

Project Number/Name: Miss BLH/LA002656.0001.00013
Project Location: Vicksburg MS
Laboratory: PACE
Project Manager: Craig Doroun
Sampler(s)/Affiliation: G. Cook, J. Trehan, C. Fontenot

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	5 VOC (8260) APIX	1-liter Amber / 4 °C O. Pesticides (8081)	1-liter Amber / 4 °C O. Herbicides (8151)	1-liter Amber / 4 °C T. Metals	250ml plastic / HNO3 4 °C D. Metals	250ml plastic / 4 °C		Remarks	Total
PZ-24B(020107)	L	02-01-07 1115		3	2	2	1	1			20499592	9

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers: 9

Relinquished by: George Cook	Organization: Arcadis	Date 02/02/07	Time 1630	Seal Intact?
Received by: [signature]	Organization: PACE	Date 2/2/7	Time 1630	(Yes) No N/A
Relinquished by: [signature]	Organization: Pace	Date 2/2/07	Time 1820	Seal Intact?
Received by: [signature]	Organization: Pace	Date 2/2/07	Time 1820	(Yes) No N/A

Special Instructions/Remarks:

* Lab to filter Dissolved Metals

Delivery Method: ☐ In Person ☐ Common Carrier ____ (SPECIFY) ☐ Lab Courier ☐ Other ____ (SPECIFY)

AG 05-12/01

ARCADIS

Laboratory Task Order No./P.O. No. ____

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name Miss. Bluff / LA002656.0001.00013

Project Location Vicksburg, MS

Laboratory PACE

Project Manager Craig Derouen

Sampler(s)/Affiliation G. Cook, J. Trahan, C. Fontenot

Cooler # 13

2066418

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	SVOCs (8270) 1 L Amber Appx IX	1-Liter Amber / 4°C O. Pesticides (8081)	1-Liter Amber / O. Herbicides (8151)	1-Liter Amber / 4°C T. Metals	250ml plastic / HNO3 / 4 D. Metals	250ml plastic / 4°C VOC 8260 + APIX 40ml vials / HCL / 4°	Remarks	Total
MW-4 (020107)	L	02-01-07 0848		3	2	1	1	1	3	20499589	11
PZ-21A (020107)	L	0930		~~3~~	—	—	—	—	3	590	3
PZ-23A (020107)	L	1030		—	—	—	—	—	3	591	3
PZ-24B (020107)	L	1115		—	—	—	—	—	3	592	3
TB-03 (020107)	L	02-01-07		—	—	—	—	—	2		2

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers 22

Relinquished by: George Cook	Organization: Arcadis	Date 02/02/07	Time 1630	Seal Intact?
Received by: [signature]	Organization: Pace	Date 2/2/07	Time 1630	(Yes) No N/A
Relinquished by: [signature]	Organization: Pace	Date 2/2/07	Time 1820	Seal Intact?
Received by: KAB	Organization: Pace	Date 2/2/07	Time 1820	(Yes) No N/A

Special Instructions/Remarks:

* lab to filter Dissolved Metals

Range 2.4-4.0

Delivery Method: ☒ In Person ☐ Common Carrier ____ SPECIFY ☒ Lab Courier ☐ Other ____ SPECIFY

AG 05-12/01

ARCADIS

Laboratory Task Order No./P.O. No. _____ **CHAIN-OF-CUSTODY RECORD** Page 1 of 1

Project Number/Name: Miss Bl-11. /RA002656.0004.00013

Project Location: Vicksburg MS

Laboratory: PACE

Project Manager: Craig Donovan

Sampler(s)/Affiliation: G. Cook, J. Trahan, C. Fontenot

2066418

Cooler 1 @ 2.4°

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE: SVOC's (8270) 1-1-4oz Amber /4°C	O. Pesticides (8081) 1-1-4oz Amber /4°C	O. Herbicides (8151) 1-1-4oz Amber /4°C	T. Metals 1-1-4oz Amber /4°C	250ml plastic /HNO3 /4°C	Dissolved Metals 250ml plastic /4°C	Remarks	Total
PZ-12-A (MS/MSD)	L	01-31-07 1108		3	2	2	1	1		20499295	9

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers: 9

						Seal Intact?
Relinquished by: George E Cook	Organization: Arcadis	Date 01/31/07	Time 1830			
Received by: FED EX	Organization:	Date / /	Time			Yes No N/A
Relinquished by: RBoscarg	Organization: Pace	Date 2/1/07	Time 0900			Seal Intact?
Received by:	Organization:	Date / /	Time			(Yes) No N/A

Special Instructions/Remarks:

* Lab to filter Dissolved Metals.

Delivery Method: ☐ In Person ☒ Common Carrier Fed Ex (SPECIFY) ☐ Lab Courier ☐ Other _____ (SPECIFY)

AG 05-12/01

ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name Miss Bluffs / 60002656.0001.00013

Project Location Vicksburg, MS

Laboratory PACE

Project Manager Greg Davoren

Sampler(s)/Affiliation G. Cook, J. Irelan, C. Fontenot

2066418
Cooler #7

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE: 5 VOCs (8270)	1-1-1-tr Ambers/1L/4°C 8 Pesticides (8081)	1-1-1-tr Ambers/4°C 8 Herbicides (8151)	1-1-1-tr Ambers/4°C Tr Metals	250ml plastic/HNO3/4°C Dissolved Metals	250ml plastic/4°C	Remarks	Total
PZ-12A-MS(013107)	L	01-31-07 1158		3	2	2	1	1		20499245	9

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers: 9

						Seal Intact?
Relinquished by: George E Cook	Organization: Arcadis	Date 01/31/07	Time 1830			
Received by: Fed Ex	Organization:	Date / /	Time			Yes No N/A
Relinquished by: RB/Pace	Organization: Pace	Date 2/1/07	Time 9:00			Seal Intact?
Received by:	Organization:	Date / /	Time			(Yes) No N/A

Special Instructions/Remarks:

* Lab to filter Dissolved Metals

2.0°

Delivery Method: ☐ In Person ☑ Common Carrier Fed Ex (SPECIFY) ☐ Lab Courier ☐ Other _____ (SPECIFY)

AG 05-12/01

ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name: Miss Bluffs / LA002656.0001.00013

Project Location: Vicksburg, Ms.

Laboratory: PACE

Project Manager: Craig Dorman

Sampler(s)/Affiliation: G. Cook, J. Nolan, C. Fontenot

2066418

Cooler #9

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE: SVOC's (8270) 1-Lt Amb / 4oz	0. Pesticides (608) 1-Lt Amb / 4oz	0. Pesticides (8151) 1-Lt Amb / 4oz	T. Metals 250ml plastic / HNO3 / 4oz	Dissolved Metals 250ml plastic / 4oL		Remarks	Total
PZ12B(01/31/07)	L	01-31-07 1127		3	2	2	1	1		20499246	9

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers: 9

Relinquished by: George Cook	Organization: Arcadis	Date 01/31/07	Time 1830	Seal Intact?	
Received by: Fed Ex	Organization:	Date / /	Time	Yes No N/A	
Relinquished by: RBosarge	Organization: Pace	Date 2/1/07	Time 0900	Seal Intact?	
Received by:	Organization:	Date / /	Time	(Yes) No N/A	

Special Instructions/Remarks: Lab to filter dissolved Metals.

2.0°C

Delivery Method: ☐ In Person ☒ Common Carrier Fed Ex (SPECIFY) ☐ Lab Courier ☐ Other _____ (SPECIFY)

AG 05-12/01

ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name: Miss Bluff / 4002656.0001.00013

Project Location: Vicksburg, MS.

Laboratory: PACE

Project Manager: Craig Doreen

Sampler(s)/Affiliation: G. Cook, J. Dreher, C. Fontenot

2066418

Cooler #10

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE: SVOCs (8270) 1-1-L Amber / 4°C	0. Pesticides (8081) 1-1-L Amber / 4°C	0. Herbicides (8151) 1-1-L Amber / 4°C	T. Metals 250ml plastic / HNO3 / 4°C	Dissolved Metals 250ml plastic / 4°C		Remarks	Total
PZ-20A(013107)	L	01-31-07 1205		3	2	2	1	1		20499247	9

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers: 9

Relinquished by: George E Cook	Organization: Arcadis	Date 01/31/07	Time 1830	Seal Intact?	
Received by: Fed EX	Organization:	Date / /	Time	Yes	No N/A
Relinquished by: R Bosarge	Organization: Pace	Date 2/1/07	Time 0900	Seal Intact?	
Received by:	Organization:	Date / /	Time	(Yes)	No N/A

Special Instructions/Remarks:

* Lab to filter Dissolved Metals

2.1°

Delivery Method: ☐ In Person ☑ Common Carrier FedEX (SPECIFY) ☐ Lab Courier ☐ Other _____ (SPECIFY)

AG 05-12/01

ARCADIS

Laboratory Task Order No./P.O. No. _____ **CHAIN-OF-CUSTODY RECORD** Page 1 of 1

Project Number/Name Miss Bluff/ LA00 2656.0001.000 13

Project Location Vicksburg, MS

Laboratory PACE

Project Manager Craig Dresen

Sampler(s)/Affiliation Co Cook, J. Drahn, C. Fontana

2066418

Cooler #11

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE: SVOCs (8270) 1-1L Amber @ 4°C	0. Pesticides (8081) 1-1L Amber @ 4°C	0. Herbicides (8151) 1-1L Amber @ 4°C	T. Metals 1-1L Poly @ 4°C	ASOW Dissolved Metals 250ml plastic @ 4°C	Dissolved Metals 250ml plastic @ 4°C	Remarks	Total
PZ-20B(013107)	S	01-31-07 1217		3	2	2	1	1		20499248	9

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers: 9

						Seal Intact?
Relinquished by: Geoge E Cook	Organization: Arcadis	Date 01/31/07	Time 1830			
Received by: Fed Ex	Organization:	Date / /	Time			Yes No N/A
Relinquished by: RBOSaugh	Organization: PACE	Date 2/1/07	Time 0900			Seal Intact?
Received by:	Organization:	Date / /	Time			(Yes) No N/A

Special Instructions/Remarks: 2.7°

Lab to filter Dissolved Metals

Delivery Method: ☐ In Person ☐ Common Carrier Fed Ex (SPECIFY) ☐ Lab Courier ☐ Other (SPECIFY)

AG 05-12/01

ARCADIS

Laboratory Task Order No./P.O. No. _____ **CHAIN-OF-CUSTODY RECORD** Page 1 of 1

Project Number/Name Miss Bluff (A00265.0001.00013

Project Location Vicksburg MS

Laboratory PACE

Project Manager Craig Dorman

Sampler(s)/Affiliation G. Cook, J. Trola, Contractor

Cooler #1

2066418

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE: SVOCs (8270) 1-1-1g Amber / 4°C	O. Pesticides (8081) 1-1-1g Amber / 4°C	O. Herbicides (8151) 1-1-1g Amber / 4°C	T. Metals 250 ml plastic HNO3 / 4°C	Dissolved Metals 250 ml plastic / 4°C		Remarks	Total
Dup-01 (013107)	L	01-31-07		3	2	2	1	1		20499249	9

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers: 9

Relinquished by: George E Cook	Organization: Arcadis	Date 01/31/07	Time 1830	Seal Intact?	Yes	No N/A
Received by: Fed Ex	Organization:	Date / /	Time			
Relinquished by: R Bosarge	Organization: Pace	Date 2/1/07	Time 0900	Seal Intact?	(Yes)	No N/A
Received by:	Organization:	Date / /	Time			

Special Instructions/Remarks:

X-Hab to filter Dissolved Metals

2.0°

Delivery Method: ☐ In Person ☒ Common Carrier FED EX SPECIFY ☐ Lab Courier ☐ Other SPECIFY

AG 05-12/01

ARCADIS

Laboratory Task Order No./P.O. No. _____ **CHAIN-OF-CUSTODY RECORD** Page 1 of 1

Project Number/Name Miss. Bluffs / LA002656000.0013

Project Location Vicksburg, MS

Laboratory PACE

Project Manager Craig Donavon

Sampler(s)/Affiliation G. Cook, J. Drelan, C. Fontenot

2066418

Cooler #5

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	SVOCs - 8270 1-Liter Amber / 4 °C	O. Pesticides (8081) 1-Liter Amber / 4 °C	O. Herbicides (8151) 1-Liter Amber / 4 °C	T. Metals 1-Liter Amber / HNO3 / 4 °C	VOCs (8260) 3 (40 mL) Vials / HCl / 4 °C	VOCs (8260) VOA vials (Dry) / HCl	Remarks	Total
SPUW-(013107)	L	01-31-07 1040		3	X	X	X	3	254	** SEE Below	6
PZ-12A (013107)	L	1108						9	20499245	MS/MSD	9
PZ-12B (013107)	L	1127						3		20499246	3
PZ-20A (013107)	L	1205						3		20499247	3
PZ-20B (013107)	L	1217						3		20499248	3
Dup-01 (013107)	L	01-31-07						3		20499249	2
TB-02 (013107)	L	01-31-07						2		252	2
FB-01 (013107)	L	1440						3		253	3

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers 31

Relinquished by: George E Cook	Organization: Arcadis	Date 01/31/07	Time 1830	Seal Intact?		
Received by: Fed Ex	Organization:	Date / /	Time	Yes	No	N/A
Relinquished by: R Bozarth	Organization: Pace	Date 2/1/07	Time 0900	Seal Intact?		
Received by:	Organization:	Date / /	Time	(Yes)	No	N/A

Special Instructions/Remarks: [redacted] Lab is to hold SVOCs until George Cook calls. Was only able to collect 2 of 3-1-liter ambers

Delivery Method: ☐ In Person ☐ Common Carrier _____ SPECIFY ☒ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

ARCADIS

Laboratory Task Order No./P.O. No. _____ **CHAIN-OF-CUSTODY RECORD** Page 1 of 1

Project Number/Name Miss Bluffs / LA002656.0001.00013

Project Location Vicksburg, MS.

Laboratory Pace

Project Manager Craig Derouen

Sampler(s)/Affiliation G. Cook, J. Trolan, C. Fontenot

2066418
Cooler #3

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE: 5 VOCs (8260) · 1-1 hr Amber /4 oz	O. Pesticides (8081) · 1-1 hr Amber /4 oz	O. Herbicides (8151) · 1-1 hr Amber /4 oz	T. Metals · 1-1 hr Amber /4 oz	D. Metals · 250 ml plastic (Hersy) /4 oz	250 ml plastic /4 oz	Remarks	Total
MW-5 (013007)	L	01-30-07 1206		3	2	2	1	1		2049165	9

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers 9

Relinquished by: George Cook	Organization: Arcadis	Date 01 / 30 / 07	Time 1700	Seal Intact?	Yes	No N/A
Received by: Craig A. Derouen	Organization: Arcadis	Date 01 / 30 / 07	Time 1700			
Relinquished by: Craig A. Derouen	Organization: Arcadis	Date 01 / 31 / 07	Time 1400	Seal Intact?	Yes	No N/A
Received by: [illegible]	Organization: Pace	Date 1/31/07	Time 1400 / 1620			

Special Instructions/Remarks: PO/Pace 1-31-07 @ 1620

Lab # to filter Dissolved Metal

3.0, 2.9, 3.3

Delivery Method: ☐ In Person ☐ Common Carrier _____ SPECIFY ☐ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

ARCADIS

Laboratory Task Order No./P.O. No.

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name Miss. Bluffs / LA002656.0001.00013

Project Location Vicksburg, MS.

Laboratory Pace

Project Manager Craig Derouen

Sampler(s)/Affiliation G. Cook, J. Trcha, C. Fontenot Arcadis

2066418

Cooler #2

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	~~VOC's (8260)~~	~~40ml vials~~ 01/30/07 / HCl / 4 C SVOL's (8270)	1-Liter Amber glass / 4 C O. Pesticides (8081)	1-Liter Amber / 4 C O. Herbicides (8151)	1-Liter Amber T. Metals & Arsenic	250ml plastic / HNO3 / 4 C D. Metals	250ml plastic / 4 C	Remarks	Total
MW-6(013007)	L	01-30-07 1113		→	3	2	2	1	1		20499166	9

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers 9

Relinquished by: George E Cook	Organization: Arcadis	Date 01/30/07	Time 1700	Seal Intact?
Received by: Craig A Derouen	Organization: Arcadis	Date 01/30/07	Time 1700	(Yes) No N/A
Relinquished by: Craig A. Derouen	Organization: Arcadis	Date 01/31/07	Time 1400	Seal Intact?
Received by: David Lane	Organization: PACE	Date 1/31/07	Time 1400	(Yes) No N/A
Relinquished by: David Lane	PACE	Date 1/31/07	Time 1620	

RB/Pace 1/31/07 1620

Special Instructions/Remarks: Lab to filter Dissolved Metal

3.0, 2.9, 3.3

Delivery Method: ☐ In Person ☐ Common Carrier - SPECIFY ☐ Lab Courier ☐ Other SPECIFY

AG 05-12/01

ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name Miss. Bluffs/LA002656.0001.00013

Project Location Vicksburg, MS.

Laboratory PACE

Project Manager Craig Derouen

Sampler(s)/Affiliation G. Cook, S. Treher, C. Fontenot / Arcadis

2066418

Cooler #4

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE: SVOC's 8270 1-1-1k Amb 4oz	O. Pesticides (8081) 1-1-1k Amb 8oz	O. Herbicides (8151) 1-1-1k Amber 8oz	Total metal 250ml plstc/HNO3/4oz	Dissolved Metal 250ml plastic/4oz	Remarks	Total
MW-2 (013007)	L	01-30-07 1555		3	2	2	1	1	20499167	9

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers: 9

Relinquished by: George Cook	Organization: Arcadis	Date 01/30/07	Time 1700	Seal Intact?	
Received by: Craig A. Derouen	Organization: Arcadis	Date 01/30/07	Time 1700	Yes	No N/A
Relinquished by: Craig A. Derouen	Organization: Arcadis	Date 01/31/07	Time 1400	Seal Intact?	
Received by: [illegible]	Organization: Pace	Date 1/31/07	Time 1400	Yes	No N/A
Relinquished by: [illegible]	Organization: [illegible]	Date 1/31/07	Time 1620		

Special Instructions/Remarks: # Lab to filter Dissolved Metal

3.0, 2.9, 3.3

Delivery Method: ☐ In Person ☐ Common Carrier _____ SPECIFY ☐ Lab Courier ☒ Other Arcadis SPECIFY

AG 05-12/01

Pace Analytical™
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

206418

Page: of

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: ARCADIS	Report To: Craig Derouen	Attention: ARCADIS - Accounts Payable
Address: 10352 Plaza Americana Drive	Copy To: Jane Kennedy	Company Name: ARCADIS
Baton Rouge, Louisiana 70816		Address: 10352 Plaza Americana; Baton Rouge, LA 70819
Email To: Craig.Derouen@arcadis-us.com; Jane.Kennedy@arcadis-us.com	Purchase Order No.:	Pace Quote Reference:
Phone: (225) 292-1004 Fax: (225) 218-9677	Project Name: MS Bluffs (Vicksburg, MS)	Pace Project Manager: Cindy Olavesen
Requested Due Date/TAT:	Project Number: LA002656.0001.00013	Pace Profile #:

REGULATORY AGENCY

NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐
UST ☐ RCRA ☐ OTHER MDEQ TRGs

SITE LOCATION: GA ☐ IL ☐ IN ☐ MI ☐ NC ☐ OH ☐ SC ☐ WI ☑ OTHER MS

Section D Required Client Information

SAMPLE ID

One Character per box.
(A-Z, 0-9 / ,-)
Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL WP
WIPE	AR
AIR	OT
OTHER	TS
TISSUE	

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis: VOC (8260; App IX)	SVOC (8270)	Pest(8081)/Herb(8151)	Metals - Total	Dissolved Metals	Residual Chlorine (Y/N)	Pace Project Number / Lab I.D.
1	MW-7C013007	W	G	1-30-07		1-30-07	1050	6.5	5			1	3					3	3	4	1	1		20499168
2	MW-6C013007	W	G			1-30-07	1117	6.0	3				3					3						166
3	MW-5C013007	W	G			1-30-07	1335	6.4	3				3					3						169
4	MW-2C013007	W	G			1-30-07	1535	6.2	3				3					3						167
5	TB-01C013007	W	G			1-30-07			3				3					3						170
6																								
7																								
8																								
9																								
10																								
11																								
12																								

Additional Comments:

MDEQ Tier 1 TRG Detection Limits

Cooler #1

Lab to filter Dissolved Metals

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
George Cook / Arcadis	1-30-07	1700	Craig Derouen	01-30-07	1700
Craig Derouen / Arcadis	1-30-07	1800	Pace	1/31/07	1400
	1/31/07	1620	FB/Pace	1/31	1620

SAMPLE CONDITIONS

Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
3.2	Y/N	Y/N	Y/N
3.3	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: George E Cook

SIGNATURE of SAMPLER:

DATE Signed (MM / DD / YY): 01-30-07

E-File,(ALLQ020rev.3,31Mar05), 13Jun2005

ARCADIS

Laboratory Task Order No./P.O. No. ______

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name: Miss Bluffs / LA002656.0001.00013

Project Location: Vicksburg, MS.

Laboratory: PACE

Project Manager: Cris. Dorsam

Sampler(s)/Affiliation: G. Cook, J. Trolen, C. Fontenot

2066418

Cooler #15

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	SVOC's (8270) APP IX	1-liter Amber / 4 oz. Pesticides (8081)	1-liter Amber / 4 oz. Herbicides (8151)	1-liter Amber / 8 oz. T. Metals	250 ml plastic/HNO3/4 oz. D. Metals	250 ml plastic/4 oz	Remarks	Total
PZ-23IA (020107)	L	02-02-07 1030		3	2	2	1	1		~~2049(4?)~~ Cancelled on other COC as 2049591	9

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers: 9

Relinquished by: George Cook	Organization: Arcadis	Date 02/02/07	Time 1630	Seal Intact?
Received by: [signature]	Organization: PACE	Date 2/2/07	Time 1630	(Yes) No N/A
Relinquished by: [signature]	Organization: PACE	Date 2/2/07	Time 1820	Seal Intact?
Received by: [signature]	Organization: PACE	Date 2/2/07	Time 1820	(Yes) No N/A

Special Instructions/Remarks:

Range 2.4 – 4.0

* Lab to filter Dissolved Metals

Delivery Method: ☒ In Person ☐ Common Carrier ______ SPECIFY ☒ Lab Courier ☐ Other ______ SPECIFY

AG 05-12/01

ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name MISS BLVD/LA002656.0001.00013

Project Location Vicksburg, MS

Laboratory PACE

Project Manager [illegible] Davidson

Sampler(s)/Affiliation G. Cook, S. Nolan, C. Foster

Cooler #6

2066418

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	SVOCs (8270) 1-1-L Amber / 4 oz	Pesticides (8081) 1-1-L Amber / 4 oz	Herbicides (8151) 1-1-L Amber / 4 oz	T. Metals 250ml plastic / HNO3 / 4 oz	Dissolved Metals 250ml plastic / 4 oz		Remarks	Total
PZ-12A(013107)	L	01-31-07 1108		3	2	2	1	1		20499245	9

ANALYSIS / METHOD / SIZE

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers: 9

						Seal Intact?
Relinquished by:	George Elcock	Organization:	[illegible] Flack	Date 01/31/07	Time 1830	
Received by:	Fed Ex	Organization:		Date / /	Time	Yes No N/A
Relinquished by:	RBosarge	Organization:	Pace	Date 2/1/07	Time 0900	Seal Intact?
Received by:		Organization:		Date / /	Time	Yes No N/A

Special Instructions/Remarks:

* Lab to filter Dissolved Metals

2.7°

Delivery Method: ☐ In Person ☒ Common Carrier Fed Ex (SPECIFY) ☐ Lab Courier ☐ Other _____ (SPECIFY)

AG 05-12/01

ARCADIS

Laboratory Task Order No./P.O. No. _____ **CHAIN-OF-CUSTODY RECORD** Page 1 of 1

2066418

Project Number/Name Miss Bluffs / 30028656.0001/0013

Project Location Vicksburg, MS.

Laboratory PACE

Project Manager Chris Doreau

Sampler(s)/Affiliation G. Cook, J. Dolan, C. Fontenot

Cooler #14

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	SVOCs (8270) Amb 1-Lit Amber / 4°C	O. Pesticides (8081) 1-Lit. Amber / 4°C	O. Herbicides (8151) 1-Lit. Amber / 4°C	T. Metals 250ml plastic / HNO3 / 4°C	D. Metals 250ml plastic / 4°C		Remarks	Total
PZ-21A(020107)	L	02-01-07 0930		3	2	2	1	1		204995-90	9

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers: 9

						Seal Intact?
Relinquished by:	Geoff Cook	Organization:	Arcadis	Date 02/02/07	Time 1630	
Received by:		Organization:	PACE	Date 2/2/07	Time 1630	Yes No N/A
Relinquished by:		Organization:	PACE	Date 2/2/07	Time 1820	Seal Intact?
Received by:		Organization:	PACE	Date 2/2/07	Time 1820	Yes No N/A

Special Instructions/Remarks:

* Lab to filter Dissolved Metals

Delivery Method: ☒ In Person ☐ Common Carrier _____ SPECIFY ☒ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

ARCADIS

Laboratory Task Order No./P.O. No. _____ **CHAIN-OF-CUSTODY RECORD** Page 1 of 1

Project Number/Name: Miss Bluff/LA002656.0001.00013

Project Location: Vicksburg MS

Laboratory: PACE

Project Manager: Craig Dorroun

Sampler(s)/Affiliation: G. Cook, J. Trahan, C. Fontenot

2166418

Cooler #16

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	5VOC (8260) HPIX	1-1-ltr Amber/4 oz O. Pesticides (8081)	1-1-ltr Amber/4 oz O. Herbicides (8151)	1-1-ltr Amber/4 oz T. Metals	250ml plastic/4 oz D. Metals	250ml plastic/4 oz	Remarks	Total
PZ-24B(020107)	L	02-01-07 1115		3	2	2	1	1		20499592	9

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers: 9

Relinquished by: George Cook	Organization: Arcadis	Date 02/02/07	Time 1630	Seal Intact?		
Received by:	Organization: PACE	Date 2/2/07	Time 1630	(Yes)	No	N/A
Relinquished by:	Organization: PACE	Date 2/2/07	Time 1820	Seal Intact?		
Received by:	Organization: Pace	Date 2/2/07	Time 1820	(Yes)	No	N/A

Special Instructions/Remarks:

* Lab to filter Dissolved Metals

Delivery Method: ☐ In Person ☐ Common Carrier _____ SPECIFY ☐ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

ARCADIS

Laboratory Task Order No./P.O. No. ______

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name Miss. Bluff / LA002656.0001.00013

Project Location Vicksburg, MS

Laboratory PACE

Project Manager Craig Dereon

Sampler(s)/Affiliation G. Cook, J. Trehan, C. Fontenot

Cooler # 13

2066418

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	SVOC's (8270) App IX / 1-liter Amber / 4 °C	O. Pesticides (8081) / 1-liter Amber	O. Herbicides (8151) / 1-liter Amber / 4 °C	T. Metals / 250 ml plastic / HNO3 / 4	D. Metals* / 250 ml plastic / 4 °C	VOC 8260 + APIX / 40 ml vials / HCL / 4 °C		Remarks	Total
MW-4 (020107)	L	02-01-07 0848		3	2	1	1	1	3		20499589	11
PZ-21A (020107)	L	0930		~~3~~					3		590	3
PZ-23A (020107)	L	1030							3		591	3
PZ-24B (020107)	L	1115							3		592	3
TB-03 (020107)	L	02-01-07							2			2

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers 22

Relinquished by: George Cook	Organization: Arcadis	Date 02/02/07	Time 1630	Seal Intact?
Received by: [signature]	Organization: PACE	Date 2/2/07	Time 1630	(Yes) No N/A
Relinquished by: [signature]	Organization: PACE	Date 2/2/07	Time 1820	Seal Intact?
Received by: KAB	Organization: PA	Date 2/2/07	Time 1820	(Yes) No N/A

Special Instructions/Remarks:

* Lab to filter Dissolved Metals.

Range 2.4-4.0

Delivery Method: ☒ In Person ☐ Common Carrier ______ SPECIFY ☒ Lab Courier ☐ Other ______ SPECIFY

AG 05-12/01

ARCADIS

Laboratory Task Order No./P.O. No. _____ **CHAIN-OF-CUSTODY RECORD** Page 1 of 1

Project Number/Name Miss Bl-H. /IA002656.0001.00013

Project Location Vicksburg MS

Laboratory PACE

Project Manager Craig Dawson

Sampler(s)/Affiliation G. Cook, J. Drohan, C. Fontenot

2066418

Cooler 18

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE: SVOCs (8270) 1-1-L Amber /4°C	0. Pesticides (8081) 1-1-L Amber /4°C	α Halocides (8151) 1-1-L Amber /4°C	T. Metals 250ml plastic /HNO3 /4°C	Dissolved Metals 250ml plastic /4°C		Remarks	Total
PZ-12-A (MS/D) (01/31/07)	L	01-31-07 1108		3	2	2	1	1		20499295	9

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers: 9

Relinquished by: George Cook	Organization: Arcadis	Date 01/31/07	Time 1830	Seal Intact?		
Received by: FED EX	Organization:	Date / /	Time	Yes	No	N/A
Relinquished by: R Bosarge	Organization: Pace	Date 2/1/07	Time 0900	Seal Intact?		
Received by:	Organization:	Date / /	Time	(Yes)	No	N/A

Special Instructions/Remarks:

* Lab to filter Dissolved Metals.

2.4°

Delivery Method: ☐ In Person ☒ Common Carrier Fed Ex (SPECIFY) ☐ Lab Courier ☐ Other _____ (SPECIFY)

AG 05-12/01

ARCADIS

Laboratory Task Order No./P.O. No. _____ **CHAIN-OF-CUSTODY RECORD** Page 1 of 1

Project Number/Name Miss Bluffs / ICA002656.0001.00013

Project Location Vicksburg, MS

Laboratory PACE

Project Manager Greg Dertouzos

Sampler(s)/Affiliation G. Cook, J. Irelan, C. Fontenot

2066418
Cooler #7

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	5 VOC's (8270) 1-L Amber/4°C	0. Pesticides (8081) 1-L Amber/4°C	0. Herbicides (8151) 1-L Amber/4°C	Tr. Metals 250ml plastic/HNO3/4°C	Dissolved Metals 250ml plastic/4°C		Remarks	Total
PZ-12A-MS(013107)	L	01-31-07 1108		3	2	2	1	1		20499245	9

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers 9

						Seal Intact?
Relinquished by: George E Cook	Organization: Arcadis	Date 01/31/07	Time 1830			
Received by: Fed Ex	Organization:	Date / /	Time			Yes No N/A
Relinquished by: RB/Pace	Organization: Pace	Date 2/1/07	Time 9:00			Seal Intact?
Received by:	Organization:	Date / /	Time			(Yes) No N/A

Special Instructions/Remarks:

* Lab to field Dissolved Metals

2.0°

Delivery Method: ☐ In Person ☒ Common Carrier Fed Ex (SPECIFY) ☐ Lab Courier ☐ Other (SPECIFY)

AG 05-12/01

ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name: Miss Bluffs / LA002656.0001.00013

Project Location: Vicksburg, MS.

Laboratory: PACE

Project Manager: Craig Dorman

Sampler(s)/Affiliation: G. Cook, I. Haley, C. Fontenot

2066418

Cooler #9

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	SVOCs (8270) 1-1-L Amber / 4oz	0. Pesticides (8081) 1-1-L Amber / 4oz	0. Pesticides (8151) 1-1-L Amber / 4oz	T. Metals 250ml plastic / HNO3 / 4oz	D. Dissolved Metals 250ml plastic / 4oz	Remarks	Total
PZ12B(0/3107)	L	01-31-07 1127		3	2	2	1	1	20499246	9

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers: 9

						Seal Intact?
Relinquished by: George Cook	Organization: Arcadis	Date 01/31/07	Time 1830			
Received by: Fed Ex	Organization:	Date / /	Time			Yes No N/A
Relinquished by: RBOsarge	Organization: Pace	Date 2/1/07	Time 0900			Seal Intact?
Received by:	Organization:	Date / /	Time			Yes (Yes) No N/A

Special Instructions/Remarks: Lab to filter dissolved Metals

2.0°

Delivery Method: ☐ In Person ☒ Common Carrier Fed Ex (SPECIFY) ☐ Lab Courier ☐ Other _____ (SPECIFY)

AG 05-12/01

ARCADIS

Laboratory Task Order No./P.O. No. _____ **CHAIN-OF-CUSTODY RECORD** Page 1 of 1

Project Number/Name Miss Bluff / 30021656.0001.00013

Project Location Vicksburg, MS.

Laboratory PACE

Project Manager Craig Dawson

Sampler(s)/Affiliation G. Cook, J. Dolan, C. Fontenot

2066418
Cooler #10

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE: SVOCs (8270) 1-1 Amber 4°C	1-1 Amber 4°C 0. Pesticides (8081)	1-1 Amber 4°C 0. Herbicides (8151)	1-1 Amber 4°C T. Metals	250ml plastic/HNO3 4°C Dissolved Metals	250ml plastic 4°C	Remarks	Total
PZ-20A(013107)	L	01-31-07 1205		3	2	2	1	1		20499247	9

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers: 9

						Seal Intact?
Relinquished by: George E Cook	Organization: Arcadis	Date 01/31/07	Time 1830			
Received by: Fed EX	Organization:	Date / /	Time			Yes No N/A
Relinquished by: RBOSauge	Organization: Pace	Date 2/1/07	Time 0900			Seal Intact?
Received by:	Organization:	Date / /	Time			Yes No N/A

Special Instructions/Remarks:

* Lab to filter dissolved Metals

2.1°

Delivery Method: ☐ In Person ☐ Common Carrier Fed EX (SPECIFY) ☐ Lab Courier ☐ Other (SPECIFY)

AG 05-12/01

ARCADIS

Laboratory Task Order No./P.O. No. _____ **CHAIN-OF-CUSTODY RECORD** Page 1 of 1

Project Number/Name Miss Blvd / 4A002656.0001.00013

Project Location Vicksburg MS

Laboratory PACE

Project Manager Craig Dawson

Sampler(s)/Affiliation G. Cook, J. Drahn, Contract

2066418

Cooler #11

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	8260's (8270) 1-1L Amber / 4°C	0. Pesticides (8081) 1-1L Amber / 4°C	0. Herbicides (8151) 1-1L Amber / 4°C	T. Metals 250ml plastic / HNO3 / 4°C	Dissolved Metals 250ml plastic / 4°C	Remarks	Total
PZ-20B(013107)	S	01-31-07 1317		3	2	2	1	1	20499248	9

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers 9

						Seal Intact?
Relinquished by: George F Cook	Organization: Arcadis	Date 01/31/07	Time 1830			
Received by: Fed Ex	Organization:	Date / /	Time			Yes No N/A
Relinquished by: RBOsaga	Organization: PACE	Date 2/1/07	Time 0900			Seal Intact?
Received by:	Organization:	Date / /	Time			(Yes) No N/A

Special Instructions/Remarks:

Lab to filter Dissolved Metals

2.7°

Delivery Method: ☐ In Person ☐ Common Carrier Fed Ex SPECIFY ☐ Lab Courier ☐ Other SPECIFY

AG 05-12/01

ARCADIS

Laboratory Task Order No./P.O. No. _____ **CHAIN-OF-CUSTODY RECORD** Page 1 of 1

Project Number/Name Miss Bluff (TA00265 6.0001.00013

Project Location Vicksburg MS

Laboratory PACE

Project Manager Craig Dericcon

Sampler(s)/Affiliation G. Cook, J. Irelan, Cl. Fontenot

Cooler #12

2066418

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE: SVOCs (8270) 1-1-1L Amber / 4°C	0. Pesticids (8081) 1-1-1L Amber / 4°C	0. Herbicides (8151) 1-1-1L Amber / 4°C	T. Metals 250ml plas / HNO3 / 4°C	Dissolved Metals 250ml plastic / 4°C		Remarks	Total
Dup-01(013107)	L	01-31-07		3	2	2	1	1		204992 49	9

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers 9

Relinquished by: George E Cook	Organization: Arcadis	Date 01/31/07	Time 1830	Seal Intact?		
Received by: Fed Ex	Organization:	Date / /	Time	Yes	No	N/A
Relinquished by: R Bosarge	Organization: Pace	Date 2/1/07	Time 0900	Seal Intact?		
Received by:	Organization:	Date / /	Time	(Yes)	No	N/A

Special Instructions/Remarks:

X-lab to filter Dissolved Metals

2.0°

Delivery Method: ☐ In Person ☒ Common Carrier FED EX SPECIFY ☐ Lab Courier ☐ Other SPECIFY

AG 05-12/01

ARCADIS

Laboratory Task Order No./P.O. No. _____ **CHAIN-OF-CUSTODY RECORD** Page 1 of 1

206418

Project Number/Name Miss. Bluffs / LA002656000.00013

Project Location Vicksburg, MS

Laboratory PACE

Project Manager Craig Donaldson

Sampler(s)/Affiliation G. Cook, J. Drelan, C. Fontenot

Lucy Cooler #5

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE: SVOC's 8270	1-1-L Amb w/ 4°C 0. Pesticides (8081)	1-1-L Amber w/ 4°C 0. Herbicides (8151)	1-1-L Amber w/ HNO3 to pH<2 T. Metals 01/31/07 250ml plastic w/ HNO3 to pH<2	VOC's (8260)	40 mL's VOA vials w/ HCl	Remarks	Total
SPUW-(013107)	L	01-31-07 1040		3	~~X~~	X	X	3	254	** SEE Below	6
PZ-12A (013107)	L	1108						9	20499245	MS/MSD	9
PZ-12B (013107)	L	1127						3		20499246	3
PZ-20A (013107)	L	1205						3		20499247	3
PZ-20B (013107)	L	1217						3		20499248	3
Dup-01 (013107)	L	01-31-07						3		20499249	2
TB-02 (013107)	L	01-31-07						2		252	2
FB-01 (013107)	L	1440						3		253	3

~~Total~~ 6 01/31/07

~~Total~~ 31

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers

						Seal Intact?
Relinquished by: George E Cook	Organization: Arcadis	Date 01/31/07	Time 1830			
Received by: Fed Ex	Organization:	Date / /	Time			Yes No N/A
Relinquished by: R Bozarth	Organization: Pace	Date 2/1/07	Time 0900			Seal Intact?
Received by:	Organization:	Date / /	Time			(Yes) No N/A

Special Instructions/Remarks:

** Lab is to hold SVOC's until George Cook calls. Was only able to collect 1.6 3-1-liter ambers

Delivery Method: ☐ In Person ☐ Common Carrier _____ SPECIFY ☐ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

ARCADIS

Laboratory Task Order No./P.O. No. _____ **CHAIN-OF-CUSTODY RECORD** Page 1 of 1

Project Number/Name Miss Bluffs/LA002656.0001.00013

Project Location Vicksburg, MS.

Laboratory Pace

Project Manager Craig Derouen

Sampler(s)/Affiliation G. Cook, J. Trola, C. Fontenot

2066418
Cooler #3

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	SVOCs (8270) 1-1 kr Amber /4 oz	O. Pesticides (8081) 1-1 kr Amber /4 oz	O. Herbicides (8151) 1-1 kr Amber /4 oz	T. Metals 1 x 250ml plastic HNO3 /4 oz	D. Metals 1 x 250ml plastic HNO3 /4 oz		Remarks	Total
MW-5 (013007)	L	01-30-07 1206		3	2	2	1	1		2049165	9

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers: 9

Relinquished by: George Cook	Organization: Arcadis	Date 01/30/07	Time 1700	Seal Intact?		
Received by: Craig A. Derouen	Organization: Arcadis	Date 01/30/07	Time 1700	Yes	No	N/A
Relinquished by: Craig A. Derouen	Organization: Arcadis	Date 01/31/07	Time 1400	Seal Intact?		
Received by: [illegible]	Organization: PACE	Date 1/31/07 11/31/07	Time 1400 1620	Yes	No	N/A

Special Instructions/Remarks: PO/Pace 1-31-07 @ 1620

Lab # to filter Dissolved Metal 3.0, 2.9, 3.3

Delivery Method: ☐ In Person ☐ Common Carrier _____ SPECIFY ☐ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

ARCADIS

Laboratory Task Order No./P.O. No.

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name Miss. Bluffs / LA002656.0001.00013

Project Location Vicksburg, MS.

Laboratory Pace

Project Manager Craig Derouen

Sampler(s)/Affiliation G. Cook, J. Iracha, C. Fontenot Arcadis

2066418

Cooler #2

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	VOC's (8260) ~~01/30/07~~ ~~40ml vials / HCl / 4°C~~	SVOC's (8270) 1-Liter Amber Glass / 4°C	O. Pesticides (8081) 1-Liter Amber / 4°C	O. Herbicides (8151) 1-Liter Amber	T. Metals (Arsenic) 250ml plastic / HNO3 / 4°C	D. Metals 250ml plastic / 4°C	Remarks	Total
MW-6(013007)	L	01-30-07 1117		⟶	3	2	2	1	1	20499166	9

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers: 9

Relinquished by: George E Cook	Organization: Arcadis	Date 01/30/07	Time 1700	Seal Intact?
Received by: Craig A Derouen	Organization: Arcadis	Date 01/30/07	Time 1700	(Yes) No N/A
Relinquished by: Craig A. Derouen	Organization: Arcadis	Date 01/31/07	Time 1400	Seal Intact?
Received by: David Klein	Organization: PACE	Date 1/31/07	Time 1400	(Yes) No N/A
Relinquished by: David Klein	PACE	1/31/07	1620	

Special Instructions/Remarks: RB/Pace 1/31/07 @ 1620

Lab to filter Dissolved Metal

30, 2.9, 3.3

Delivery Method: ☐ In Person ☐ Common Carrier ______ SPECIFY ☐ Lab Courier ☐ Other ______ SPECIFY

AG 05-12/01

ARCADIS

Laboratory Task Order No./P.O. No. _____ **CHAIN-OF-CUSTODY RECORD** Page 1 of 1

2066418

Project Number/Name Miss. Bluffs / LA002656.0001.00013

Project Location Vicksburg, MS.

Laboratory PACE

Project Manager Craig Derouen

Sampler(s)/Affiliation G. Cook, S. Treher, C. Fontenot / Arcadis

Cooler #4

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	5 VOC's 8260 1-1-L Amber / 4°C	0. Pesticides (608) 1-1-L Amber 4°C	0. Herbicides (8151) 1-1-L Amber 4°C	Total Metals 250ml plastic / HNO3 / 4°C	Dissolved Metals 250ml plastic / 4°C		Remarks	Total
MW-2 (013007)	L	01-30-07 1535		3	2	2	1	1		20499167	9

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers 9

Relinquished by: George Cook	Organization: Arcadis	Date 01/30/07	Time 1700	Seal Intact?	
Received by: Craig A. Derouen	Organization: Arcadis	Date 01/30/07	Time 1700	Yes	No N/A
Relinquished by: Craig A. Derouen	Organization: Arcadis	Date 01/31/07	Time 1400	Seal Intact?	
Received by: RELINQUISHED BY RB/Pace 1/31/07 @ 1620	Organization: Pace	Date 1/31/07	Time 1400 1620	Yes	No N/A

Special Instructions/Remarks:

+ Lab to filter Dissolved Metal

3.0, 2.9, 3.3

Delivery Method: ☐ In Person ☐ Common Carrier _____ SPECIFY ☐ Lab Courier ☒ Other Arcadis SPECIFY

AG 05-12/01

Pace Analytical™
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

206418

Page: of

Section A — **Required** Client Information:

Company: ARCADIS	
Address: 10352 Plaza Americana Drive	
Baton Rouge, Louisiana 70816	
Email To: Craig.Derouen@arcadis-us.com; Jane.Kennedy@arcadis-us.com	
Phone: (225) 292-1004 Fax: (225) 218-9677	
Requested Due Date/TAT:	

Section B — **Required** Project Information:

Report To: Craig Derouen
Copy To: Jane Kennedy
Purchase Order No.:
Project Name: MS Bluffs (Vicksburg, MS)
Project Number: LA002656.0001.00013

Section C — Invoice Information:

Attention: ARCADIS - Accounts Payable
Company Name: ARCADIS
Address: 10352 Plaza Americana; Baton Rouge, LA 70819
Pace Quote Reference:
Pace Project Manager: Cindy Olavesen
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER MDEQ TRGs

SITE LOCATION: ☐ GA ☐ IL ☐ IN ☐ MI ☐ NC ☐ OH ☐ SC ☒ WI ☐ OTHER MS

Section D — **Required** Client Information

SAMPLE ID
One Character per box.
(A-Z, 0-9 / ,-)
Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analyses: VOC (8260; App IX)	SVOC (8270)	Pest(8081)/Herb(8151)	Metals-Total/Dissolved Mn	Residual Chlorine (Y/N)	Pace Project Number / Lab I.D.
1	MW-7C013007	W	G	1-30-07		1-30-07	1050	6.95	8			1	3					3	3	4	1	1	20499168
2	MW-6C013007	W	G			1-30-07	1117	6.10	3				3					3					166-
3	MW-5C013007	W	G			1-30-07	1335	6.04	3				3					3					169
4	MW-2C013007	W	G			1-30-07	1535	6.02	3				3					3					167-
5	TB-01C013007	W	G			1-30-07			3				3					3					170
6																							
7																							
8																							
9																							
10																							
11																							
12																							

Additional Comments:

MDEQ Tier 1 TRG Detection Limits

Cooler #1

Lab to filter Dissolved Metals

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
George Cook / Arcadis	01-30-07	1700	Craig Derouen	01-30-07	1700
Craig Derouen / Arcadis	1-31-07	1400	Quinton Pace	1/31/07	1400
Quinton Pace	1/31/07	1620	KB/Pace	1/31	1620

SAMPLE CONDITIONS

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
3.2	Y/N	Y/N	Y/N
3.3	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: George E Cook

SIGNATURE of SAMPLER:

DATE Signed (MM / DD / YY): 01-30-07

ANALYTICAL DATA VALIDATION CHECKLIST **Former Vicksburg Chemical Company**

SDG NUMBER(s)	**2066418**	
Sample Date(s):	01/30/07, 01/31/07, and 02/01/07	
Sample Team:	ARCADIS	
Sample Matrix:	Water	
Analyzing Laboratories:	Pace Analytical Services (New Orleans, Asheville, and Charlotte)	
Analyses: Project-Specific Compound Lists	**USEPA Methods:** 8260 Volatile Organic Compounds (VOCs) 8270 Semivolatile Organic Compounds (SVOCs)	8151 (Herbicides) 8081 (Pesticides) 6010 (Metals)
Report Content Level:	Contract Laboratory Program (CLP) type including raw data	

ARCADIS U.S., Inc.
3850 N. Causeway Blvd.
Suite 1600
Metairie, LA 70002
Tel. 504 832 4174
Fax 504 832 2145

ENVIRONMENT

Project Number:
LA002656.0001.00012

Review of field data, field notes, and sampling logs was conducted separately. Analytical data were evaluated in accordance with applicable U.S. Environmental Protection Agency (USEPA) method-specific criteria and/or laboratory Standard Operating Procedures (SOPs), *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (July 2002), *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review* (October 1999), *Quality Assurance Project Plan* (September 2006), the analytical laboratory Quality Assurance (QA) control limits, *Site Baseline Sampling Work Plan* (January 2007), and professional judgment.

This data verification was performed at a **Level 1** and included review of data package completeness, method blanks, holding time compliance, field duplicate precision, and field Quality Control (QC) sample evaluation. Only QA/QC results and analytical data associated with analytes/compounds of interest were reviewed for this validation.

The data package review included analytical results and associated QC data for all samples in the listed Sample Delivery Group(s) unless otherwise noted.

The following samples were included in this Validation:

SDG	Sample ID	Sample Type	Sample Collection Date	Parent Sample
2066418	MW-5 (013007)	Water	01/30/07	
2066418	MW-6 (013007)	Water	01/30/07	
2066418	MW-2 (013007)	Water	01/30/07	
2066418	MW-7 (013007)	Water	01/30/07	
2066418	MW-5 (013007)	Water	01/30/07	
2066418	TB-01 (013007)	Water	01/30/07	
2066418	PZ-12A (013107)	Water	01/31/07	
2066418	PZ-12B (013107)	Water	01/31/07	
2066418	PZ-20A (013107)	Water	01/31/07	
2066418	PZ-20B (013107)	Water	01/31/07	
2066418	DUP-01 (013107)	Water	01/31/07	PZ-20A (013107)
2066418	TB-02 (013107)	Water	01/31/07	
2066418	FB-01 (013107)	Water	01/31/07	
2066418	SPUW (013107)	Water	01/31/07	
2066418	MW-4 (020107)	Water	02/01/07	
2066418	PZ-21A (020107)	Water	02/01/07	
2066418	PZ-23A (020107)	Water	02/01/07	
2066418	PZ-24B (020107)	Water	02/01/07	
2066418	TB-03 (020107)	Water	02/01/07	

ANALYTICAL DATA PACKAGE DOCUMENTATION
GENERAL INFORMATION

Item Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt information		X		X	
2. Sample results		X		X	
3. Parameters analyzed		X		X	
4. Methods of analysis		X		X	
5. Reporting limits of analysis		X		X	
6. Master tracking list		X		X	
7. Sample collection date		X		X	
8. Laboratory sample received date		X		X	
9. Sample preservation		X		X	
10. Sample preparation/extraction date		X		X	
11. Sample analysis date		X		X	
12. Copy of Chain-of-Custody form signed by laboratory sample custodian		X		X	
13. Narrative summary of QA or sample problems provided		X		X	

QA - Quality Assurance

Comments:

All samples referenced in this report were analyzed by various divisions of Pace Analytical Services.

Performance was acceptable, with the following exceptions and/or notes:

Note: The laboratory had not completed Method Detection Limit (MDL) studies for Atrazene, Cyanazine, or Toxaphene.

5. The laboratory reported values between the MDL and the Reporting Limit as estimated except for Toxaphene, Atrazene, and Cyanazine. If the compound was not detected, the analytical report lists the result as non-detect at the quantitative reporting limit.

VOLATILE ORGANIC COMPOUNDS

Item Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
1. Holding Times		X		X	
2. Reporting Limits		X		X	
3. Blanks					
A. Method Blanks		X	X		
B. Equipment Blanks/Rinsate Blanks	X				X
C. Field Blanks		X		X	
D. Trip Blanks		X	X		
4. Field Duplicate Precision (RPD)		X		X	
5. Narrative Notations of Potential Impact		X		X	

RPD - relative percent difference

Comments:

This section presents the review of USEPA Method 8260 Volatile Organic Compounds (VOCs). Performance was acceptable, with the following exceptions and/or notes:

Note: The Appendix IX compound list was reported.

2. PZ-20B(013107) was analyzed at a 50x dilution due to elevated concentrations of Chloroform. Chloroform was the only compound reported from the dilution.

3. Three trip blanks, one field blank, and four method blanks were associated with the samples. Methylene Chloride was detected in all three field blanks. Acetone was detected in the method blank for Batch 81996. The associated field samples are qualified as non-detect (UB) for Acetone and Methylene Chloride if the sample concentration is less than 10 times the blank value.

4. DUP-01(013107) was collected as a field duplicate of PZ-20A(013107). The RPDs were acceptable at non-detect.

SEMIVOLATILE ORGANIC COMPOUNDS

Item Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
1. Holding Times		X		X	
2. Reporting Limits		X		X	
3. Blanks					
A. Method Blanks		X		X	
B. Equipment Blanks/Rinsate Blanks	X				X
C. Field Blanks	X				X
4. Field Duplicate Precision (RPD)		X		X	
5. Narrative Notations of Potential Impact		X		X	

RPD - relative percent difference

Comments:

The following section was reviewed and completed for USEPA Method 8270 Semivolatile Organic Compounds (SVOCs). Performance was acceptable, with the following exceptions and/or notes:

Notes: A project-specific list of compounds was reported.

Bis (2-ethyl hexyl) phthalate was detected in two samples, MW-2 and SPUW, minimally above the quantitative reporting limit. The compound is identified by the USEPA as a common laboratory contaminant and is frequently detected sporadically in laboratories. Although the associated analytical batch blanks were non-detect for Bis (2-ethyl hexyl) phthalate, the detections are low and could possibly be attributable to sample collection or preparation. The detections should be used with extreme caution.

4. DUP-01(013107) was collected as a field duplicate of PZ-20A(013107). The RPDs were acceptable at non-detect.

PESTICIDES AND HERBICIDES

Item Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
1. Holding Times		X		X	
2. Reporting Limits		X		X	
3. Blanks					
A. Method Blanks		X		X	
B. Equipment Blanks/Rinsate Blank	X				X
C. Field Blanks	X				X
4. Field Duplicate Precision (RPD)		X		X	
5. Narrative Notations of Potential Impact		X		X	

RPD - relative percent difference

Comments:

The following section was reviewed and completed for USEPA Method 8151 (Herbicides) Dinoseb only and Method 8081 (Pesticides) Toxaphene only. Performance was acceptable, with the following exceptions and/or notes:

1. The surrogate recoveries for Dinoseb were below (less than 10 percent) for PZ-20B(013107). PZ-20B(013107) was re-extracted 20 days beyond the recommended holding time for Dinoseb. The surrogate recoveries were acceptable; however, the re-extraction occurred more than two times the recommended (14-day) holding time. The original analysis will be used and the sample will be qualified as rejected due to surrogate recoveries.

4. DUP-01(013107) was collected as a field duplicate of PZ-20A(013107). The RPDs were acceptable at non-detect.

METALS

Item Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
1. Holding Times		X		X	
2. Reporting Limits		X		X	
3. Blanks					
A. Method Blanks		X		X	
B. Equipment Blanks/Rinsate Blanks	X				X
C. Field Blanks	X				X
4. Field Duplicate Precision (RPD)		X		X	
5. Narrative Notations of Potential Impact		X		X	

RPD - relative percent difference

Comments:

The following section was reviewed and completed for USEPA Method 6010 (Total and Dissolved Arsenic). Performance was acceptable, with the following exceptions and/or notes:

4. DUP-01(013107) was collected as a field duplicate of PZ-20A(013107). The RPDs were acceptable.

VALIDATION QUALIFICATION SUMMARY

Data values presented in the following table were qualified due to QC deficiencies. The table indicates compounds/analytes qualified based on validation reviews conducted in accordance with the Level of review referenced on page 1 of this checklist. Refer to the associated method section of the validation checklist for a detailed explanation of qualification. All other data are considered quantitative.

The following data qualifiers with applicable definitions were applied in this data validation:

UB - compound/analyte detected in blank or associated blank.

J - the analyte was positively identified, but the associated numerical value is the approximate concentration of the analyte in the sample.

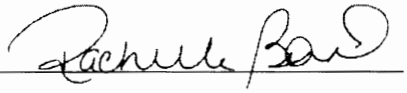
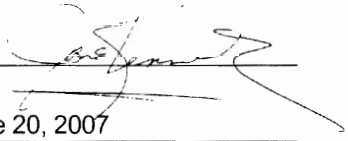
UJ - the analyte was not detected above the reporting limit; however, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R - the sample result is rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria, and the presence or absence of the analyte cannot be verified.

All other data satisfy validation criteria and are considered to be quantitative.

Sample ID	Parameter	Result	Units	Qualifier	Reason
MW-4(020107)	Acetone	17.4	µg/L	UB	Blank Contamination
	Methylene Chloride	24.2	µg/L	UB	Blank Contamination
PZ-21A(020107)	Acetone	33.6	µg/L	UB	Blank Contamination
	Methylene Chloride	26.7	µg/L	UB	Blank Contamination
PZ-23A(020107)	Acetone	20.1	µg/L	UB	Blank Contamination
	Methylene Chloride	22.2	µg/L	UB	Blank Contamination
PZ-24B(020107)	Acetone	22.0	µg/L	UB	Blank Contamination
	Methylene Chloride	23.8	µg/L	UB	Blank Contamination
PZ-20B(013107)	Dinoseb	<2.0	µg/L	R	Surrogate Recovery
	Methylene Chloride	18.5	µg/L	UB	Blank Contamination

µg/L – Micrograms per liter.

VALIDATION PERFORMED BY:	Rachelle Borne
SIGNATURE:	
DATE:	June 19, 2007
PEER REVIEW:	Jane Kennedy
SIGNATURE:	
DATE:	June 20, 2007

Pace Analytical®
New Orleans Laboratory

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LELAP # 02006

March 01, 2007

Craig Derouen
Arcadis Geraghty & Miller
10352 Plaza Americana Drive
Baton Rouge, LA 70816

RE: Project: 2066467
RE: Project ID: MS BLUFFS/LA002656.0001.00014

Dear Craig Derouen:

Enclosed are the analytical results for sample(s) received by the laboratory on February 02, 2007. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Cindy Olavesen

Cindy Olavesen

ACCREDITED IN ACCORDANCE WITH nelac

REPORT OF LABORATORY ANALYSIS

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New Orleans Laboratory

Report of Laboratory Analysis

Project Number: 2066467

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3/1/2007 13:18:02

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Sample Cross Reference Report

Pace Analytical Services, Inc.
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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.0001.00014

Project No.: 2066467

Sample ID	Lab ID	Matrix	Collection Date/Time		Received Date/Time	
SW-01	20499500	Water	02/01/2007	14:15	02/02/2007	18:20
SW-DUP-01	20499501	Water	02/01/2007		02/02/2007	18:20
SW-03	20499505	Water	02/01/2007	14:45	02/02/2007	18:20
SW-04	20499508	Water	02/01/2007	15:00	02/02/2007	18:20
SW-05	20499509	Water	02/01/2007	15:40	02/02/2007	18:20
SW-02	20499510	Water	02/01/2007	16:05	02/02/2007	18:20
SW-06	20499511	Water	02/01/2007	16:00	02/02/2007	18:20
SW-07	20499512	Water	02/01/2007	16:15	02/02/2007	18:20
SW-08	20499513	Water	02/01/2007	16:40	02/02/2007	18:20
SW-15	20499514	Water	02/01/2007	17:30	02/02/2007	18:20
SOUTH SUMP	20499515	Water	02/01/2007	15:10	02/02/2007	18:20
SW-10	20499516	Water	02/01/2007	18:00	02/02/2007	18:20
SW-11	20499517	Water	02/01/2007	18:10	02/02/2007	18:20
SW-13	20499518	Water	02/01/2007	18:16	02/02/2007	18:20
SW-09	20499519	Water	02/01/2007	18:20	02/02/2007	18:20
SW-14	20499520	Water	02/01/2007	18:35	02/02/2007	18:20
SW-12	20499521	Water	02/01/2007	18:45	02/02/2007	18:20
SW-NORTH SUMP(020207)	20499680	Water	02/02/2007	08:15	02/02/2007	18:20
SW-NORTH POND(020207)	20499681	Water	02/02/2007	08:30	02/02/2007	18:20
SW-POND A (020207)	20499682	Water	02/02/2007	09:25	02/02/2007	18:20
SW-DISCHARGE POND A (020207	20499683	Water	02/02/2007	09:35	02/02/2007	18:20
SW-POND C (020207))	20499684	Water	02/02/2007	09:35	02/02/2007	18:20
SW-POND B (020207))	20499685	Water	02/02/2007	09:55	02/02/2007	18:20
SW-DUP-02 (020207)	20499686	Water	02/02/2007		02/02/2007	18:20
TRIP BLANK	20499708	Water	02/01/2007		02/02/2007	18:20

3/1/2007 13:18:05

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Kansas Dept. of Health Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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LELAP # 02006

Project: **2066467**

Narrative detail for GC semi-volatilves analyses:

Batches 81946 and 81945: Several of the herbicide continuing calibrations were high biased for dinoseb on one of the two GC columns.

The majority of associated samples had no hits for dinoseb. Results for samples with confirmed hits were based on the unbiased column.

Batch 82113: Several of the herbicide continuing calibrations were high or low biased on one of the two GC columns.

Results for samples with confirmed hits were based on the unbiased column. In addiiton, the LCS yielded very poor recovery for dinoseb.

However the MSD recovery was acceptable and the MS recovery was high biased.

Dinoseb is a poor performer by this method; QC recovery data may be poor or erratic as demonstrated by performance-based statistical evaluation.

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Project Narrative

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LELAP # 02006

Project: **2066467**

Sample Receipt Condition:

All samples were received in accordance with EPA protocol.

Holding Times:

All holding times were met.

Blanks:

The following blank results were above reporting limits:

Batch 81996 sample 20499945 Acetone

Batch 81996 sample 20500537 Acetone

Laboratory Control Samples:

LCS recoveries outside of QC limits are qualified in the Report of Quality Control section.

Matrix Spikes and Duplicates:

MS or MSD recoveries outside of QC limits are qualified in the Report of Quality Control section.

Surrogates:

Surrogate recoveries outside of QC limits are qualified in the surrogate results section.

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Phone: 504.469.0333
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LELAP # 02006

Project: 2066467

Analytical Method	Batch	Sample used for QC
EPA 8151	81945	Batch sample from another client
EPA 8151	81946	Client sample PZ-12A (013107) from project 2066418
EPA 8081	82037	Client sample PZ-12A (013107) from project 2066418
EPA 8151	82113	Project sample SW-NORTH SUMP(020207)
EPA 6010	81950	Client sample PZ-12A (013107) from project 2066418
EPA 6010	81961	Client sample PZ-12A (013107) from project 2066418
EPA 6010	82103	Project sample SW-07
EPA 6010	82351	Project sample SW-07
EPA 8270	81863	Client sample PZ-12A (013107) from project 2066418
EPA 8270	82025	Batch sample from another client
EPA 8260	81944	Batch sample from another client
EPA 8260	81996	Project sample SW-11
EPA 405.1	81936	Batch sample from another client
EPA 405.1	81937	Batch sample from another client
EPA 150.1	81941	Project sample SW-01
EPA 150.1	81942	Project sample SW-DISCHARGE POND A (020207)
EPA 160.2	81951	Project sample SW-01
EPA 160.2	81952	Project sample SW-POND C (020207))
EPA 160.1	81954	Project sample SW-01
EPA 160.1	81955	Project sample SW-13
EPA 410.4	81965	Batch sample from another client
EPA 410.4	81973	Project sample SW-13
EPA 325.3	82033	Project sample SW-01
EPA 325.3	82034	Project sample SW-11
EPA 375.4	81969	Project sample SW-01
EPA 375.4	81972	Project sample SW-POND A (020207)
EPA 353.2	82010	Batch sample from another client
EPA 353.2	82011	Project sample SW-NORTH SUMP(020207)
EPA 365.4	82049	Project sample SW-01
EPA 365.4	82050	Project sample SW-DISCHARGE POND A (020207)
EPA 350.1	82089	Project sample SW-03
EPA 350.1	82092	Project sample SW-NORTH POND(020207)

For the sample used as the original for the DUP or MS/MSD for the batch:

. Project sample means a sample from this project was used.
Client sample means a sample from the same client but in a different project was used.
Batch sample means a sample from the a different client was used.

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Report of Laboratory Analysis

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-01 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499500 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81944

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/06/07 **Analyzed:** 02/06/07 11:27 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

3/1/2007 13:18:39

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit denotes an actual regulatory limit or a client-requested notification limit.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Report of Laboratory Analysis

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-01 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499500 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81944

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/06/07 **Analyzed:** 02/06/07 11:27 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	ND	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
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Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-01 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499500 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81863

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/03/07 **Analyzed:** 02/05/07 19:11 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-DUP-01 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499501 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81944

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/06/07 **Analyzed:** 02/06/07 11:50 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-DUP-01 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499501 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81944

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/06/07 **Analyzed:** 02/06/07 11:50 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	ND	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: SW-DUP-01 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499501 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81863

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/03/07 **Analyzed:** 02/05/07 19:38 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: SW-03 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499505 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81944

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/06/07 **Analyzed:** 02/06/07 12:12 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	0.850 J		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-03 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499505 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81944

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/06/07 **Analyzed:** 02/06/07 12:12 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	ND	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	42.5		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

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Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-03 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499505 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81863

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/03/07 **Analyzed:** 02/05/07 20:05 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-04 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499508 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81944

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/06/07 **Analyzed:** 02/06/07 12:34 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-04 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499508 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81944

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/06/07 **Analyzed:** 02/06/07 12:34 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	ND	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	9.60		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-04 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499508 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81863

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/03/07 **Analyzed:** 02/05/07 20:32 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-05 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499509 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81944

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/06/07 **Analyzed:** 02/06/07 12:58 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-05 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499509 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81944

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/06/07 **Analyzed:** 02/06/07 12:58 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	ND	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-05 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499509 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81863

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/07/07 **Analyzed:** 02/08/07 19:42 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

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ND denotes Not Detected at or above the adjusted reporting limit.
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-02 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499510 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81944

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/06/07 **Analyzed:** 02/06/07 13:20 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-02 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499510 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81944

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/06/07 **Analyzed:** 02/06/07 13:20 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	ND	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-02 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499510 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81863

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/03/07 **Analyzed:** 02/05/07 21:26 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-06 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499511 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81944

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/06/07 **Analyzed:** 02/06/07 13:43 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	22.4	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-06 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499511 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81944

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/06/07 **Analyzed:** 02/06/07 13:43 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	ND	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-06 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499511 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82025

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/07/07 **Analyzed:** 02/08/07 15:32 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: SW-07 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499512 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81944

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/06/07 **Analyzed:** 02/06/07 14:05 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	15.7	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-07 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499512 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81944

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/06/07 **Analyzed:** 02/06/07 14:05 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	ND	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-07 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499512 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82025

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/07/07 **Analyzed:** 02/08/07 15:59 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-08 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499513 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81944

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/06/07 **Analyzed:** 02/06/07 14:27 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	14.4	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-08 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499513 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81944

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/06/07 **Analyzed:** 02/06/07 14:27 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	ND	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-08 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499513 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82025

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/07/07 **Analyzed:** 02/08/07 16:26 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-15 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499514 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81944

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/06/07 **Analyzed:** 02/06/07 14:50 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	26.9	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-15 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499514 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81944

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/06/07 **Analyzed:** 02/06/07 14:50 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	ND	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-15 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499514 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82025

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/07/07 **Analyzed:** 02/08/07 16:53 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	14.6		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
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Pace Analytical
New Orleans Laboratory

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SOUTH SUMP
Site: None
Project: MS BLUFFS/LA002656.0001.00014
Project No.: 2066467
Sample Qu:
Lab ID: 20499515
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 81944
Method: 8260 VOAs Water
Units: ug/L
Target List: 8260_WL20
Collected: 02/01/07
Received: 02/02/07
Prep Factor: 1
Prepared: 02/06/07
Analyzed: 02/06/07 15:12 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	24.3	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SOUTH SUMP
Site: None
Project: MS BLUFFS/LA002656.0001.00014
Project No.: 2066467
Sample Qu:
Lab ID: 20499515
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 81944
Method: 8260 VOAs Water
Units: ug/L
Target List: 8260_WL20
Collected: 02/01/07
Received: 02/02/07
Prep Factor: 1
Prepared: 02/06/07
Analyzed: 02/06/07 15:12 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	ND	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
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1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SOUTH SUMP
Site: None
Project: MS BLUFFS/LA002656.0001.00014
Project No.: 2066467
Sample Qu:
Lab ID: 20499515
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 82025
Method: 8270 SVOAs Water
Units: ug/L
Target List: 8270_WL20
Collected: 02/01/07
Received: 02/02/07
Prep Factor: 1
Prepared: 02/07/07
Analyzed: 02/08/07 17:20 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	10.0		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-10 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499516 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81944

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/06/07 **Analyzed:** 02/06/07 15:34 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	30.9	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	49.4		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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Report of Laboratory Analysis

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-10 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499516 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81944

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/06/07 **Analyzed:** 02/06/07 15:34 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	ND	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-10 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499516 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82025

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/07/07 **Analyzed:** 02/08/07 17:47 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-11 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499517 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81996

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/06/07 **Analyzed:** 02/06/07 16:42 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	23.3	A11,B	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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Kansas Dept. of Health Environment - E-10266
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Pace Analytical
New Orleans Laboratory

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-11 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499517 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81996

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/06/07 **Analyzed:** 02/06/07 16:42 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	32.3	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-11 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499517 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82025

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/07/07 **Analyzed:** 02/08/07 18:14 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-13 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499518 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81996

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/06/07 **Analyzed:** 02/06/07 17:49 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	22.7	A11,B	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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Report of Laboratory Analysis

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1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-13 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499518 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81996

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/06/07 **Analyzed:** 02/06/07 17:49 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	27.6	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-13 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499518 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82025

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/07/07 **Analyzed:** 02/08/07 18:41 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	8.82	J	8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-09 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499519 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81996

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/06/07 **Analyzed:** 02/06/07 18:11 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	16.0	A11,B	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-09 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499519 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81996

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/06/07 **Analyzed:** 02/06/07 18:11 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	25.0	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-09 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499519 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82025

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/07/07 **Analyzed:** 02/08/07 19:09 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-14 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499520 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81996

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/06/07 **Analyzed:** 02/06/07 18:33 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	23.9	A11,B	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	13.2		0.206	5.00	
75-25-2	Bromoform	1	1.87 J		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	19.2		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	11.2		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

ND denotes Not Detected at or above the adjusted reporting limit.
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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-14 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499520 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81996

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/06/07 **Analyzed:** 02/06/07 18:33 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	26.5	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-14 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499520 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82025

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/07/07 **Analyzed:** 02/08/07 19:36 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND	M1	1.42	10.0	
1912-24-9	Atrazine	1	ND	M1		10.0	
21725-46-2	Cyanazine	1	ND	M1		10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND	M1	8.62	10.0	
100-02-7	4-Nitrophenol	1	ND	M1	1.33	10.0	
87-86-5	Pentachlorophenol	1	ND	M1	1.37	10.0	

6 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-12 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499521 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81996

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/06/07 **Analyzed:** 02/06/07 18:56 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	21.7	A11,B	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-12 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499521 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81996

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/06/07 **Analyzed:** 02/06/07 18:56 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	29.5	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

3/1/2007 13:18:46

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-12 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499521 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82025

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/07/07 **Analyzed:** 02/08/07 20:03 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

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ND denotes Not Detected at or above the adjusted reporting limit.
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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-NORTH SUMP(020207) **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499680 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81996

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/02/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/06/07 **Analyzed:** 02/06/07 19:18 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	22.0	A11,B	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-NORTH SUMP(020207) **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499680 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81996

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/02/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/06/07 **Analyzed:** 02/06/07 19:18 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	21.6	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-NORTH SUMP(020207) **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499680 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82025

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 02/02/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/07/07 **Analyzed:** 02/08/07 20:30 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-NORTH POND(020207) **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499681 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81996

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/02/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/06/07 **Analyzed:** 02/06/07 19:41 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	33.8	A11,B	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-NORTH POND(020207) **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499681 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81996

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/02/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/06/07 **Analyzed:** 02/06/07 19:41 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	22.4	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-NORTH POND(020207) **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499681 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82025

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 02/02/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/07/07 **Analyzed:** 02/08/07 20:56 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-POND A (020207) **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499682 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81996

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/02/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/06/07 **Analyzed:** 02/06/07 20:03 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	14.8	A11,B	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	23.8		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	4.22	J	0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
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3/1/2007 13:18:47

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Louisiana Dept. of Environmental Quality (LELAP) - 02006
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Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
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1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-POND A (020207) **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499682 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81996

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/02/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/06/07 **Analyzed:** 02/06/07 20:03 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	27.7	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	2.98	J	0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
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Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-POND A (020207) **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499682 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82025

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 02/02/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/07/07 **Analyzed:** 02/08/07 21:23 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	9.92	J	8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-DISCHARGE POND A (020207) **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499683 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81996

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/02/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/06/07 **Analyzed:** 02/06/07 20:26 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11,B	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	19.5		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	3.55	J	0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-DISCHARGE POND A (020207) **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499683 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81996

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/02/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/06/07 **Analyzed:** 02/06/07 20:26 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	23.6	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	3.39	J	0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-DISCHARGE POND A (020207) **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499683 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82025

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 02/02/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/07/07 **Analyzed:** 02/08/07 21:51 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	13.6		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

3/1/2007 13:18:48

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-POND C (020207))
Site: None
Project: MS BLUFFS/LA002656.0001.00014
Project No.: 2066467
Sample Qu:
Lab ID: 20499684
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 81996
Method: 8260 VOAs Water
Units: ug/L
Target List: 8260_WL20
Collected: 02/02/07
Received: 02/02/07
Prep Factor: 1
Prepared: 02/06/07
Analyzed: 02/06/07 20:49 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	18.8	A11,B	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	27.3		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	2.38	J	0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-POND C (020207)) **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499684 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81996

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/02/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/06/07 **Analyzed:** 02/06/07 20:49 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	25.0	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	14.3		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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3/1/2007 13:18:48

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
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Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health .Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Pace Analytical® New Orleans Laboratory

Client: Arcadis Geraghty & Miller

Client ID: SW-POND C (020207))
Site: None
Project: MS BLUFFS/LA002656.0001.00014
Project No.: 2066467
Sample Qu:
Lab ID: 20499684
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 82025
Method: 8270 SVOAs Water
Units: ug/L
Target List: 8270_WL20
Collected: 02/02/07
Received: 02/02/07
Prep Factor: 1
Prepared: 02/07/07
Analyzed: 02/08/07 22:17 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

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DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-POND B (020207)) **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499685 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81996

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/02/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/06/07 **Analyzed:** 02/06/07 21:11 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	31.6	A11,B	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	5.38		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	0.690 J		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-POND B (020207) **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499685 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81996

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/02/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/06/07 **Analyzed:** 02/06/07 21:11 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	31.5	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	2.32	J	0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-POND B (020207)) **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499685 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82025

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 02/02/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/07/07 **Analyzed:** 02/08/07 22:45 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

3/1/2007 13:18:49

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-DUP-02 (020207) **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499686 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81996

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/02/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/06/07 **Analyzed:** 02/06/07 21:33 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	20.5	A11,B	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	19.1		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	3.35	J	0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-DUP-02 (020207) **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499686 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81996

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/02/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/06/07 **Analyzed:** 02/06/07 21:33 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	27.8	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	3.32	J	0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

3/1/2007 13:18:49

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-DUP-02 (020207) **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499686 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82025

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 02/02/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/07/07 **Analyzed:** 02/08/07 23:12 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

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For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: TRIP BLANK
Site: None
Project: MS BLUFFS/LA002656.0001.00014
Project No.: 2066467
Sample Qu:
Lab ID: 20499708
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 81944
Method: 8260 VOAs Water
Units: ug/L
Target List: 8260_WL20
Collected: 02/01/07
Received: 02/02/07
Prep Factor: 1
Prepared: 02/04/07
Analyzed: 02/04/07 23:47 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: TRIP BLANK
Site: None
Project: MS BLUFFS/LA002656.0001.00014
Project No.: 2066467
Sample Qu:
Lab ID: 20499708
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 81944
Method: 8260 VOAs Water
Units: ug/L
Target List: 8260_WL20
Collected: 02/01/07
Received: 02/02/07
Prep Factor: 1
Prepared: 02/04/07
Analyzed: 02/04/07 23:47 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	ND	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-01 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499500 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82037

Method: 8081 Pests Water **Units:** ug/L **Target List:** 8081_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/07/07 **Analyzed:** 02/14/07 18:03 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: SW-01 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499500 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81946

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/08/07 **Analyzed:** 02/14/07 16:27 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND		0.224	2.00	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: SW-DUP-01 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499501 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82037

Method: 8081 Pests Water **Units:** ug/L **Target List:** 8081_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/07/07 **Analyzed:** 02/14/07 18:19 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

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ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
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Client: Arcadis Geraghty & Miller

Client ID: SW-DUP-01 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499501 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81946

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/08/07 **Analyzed:** 02/14/07 16:55 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND		0.224	2.00	

1 compound(s) reported

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DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
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Client: Arcadis Geraghty & Miller

Client ID: SW-03 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499505 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82037

Method: 8081 Pests Water **Units:** ug/L **Target List:** 8081_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/07/07 **Analyzed:** 02/14/07 18:36 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

3/1/2007 13:18:53

ND denotes Not Detected at or above the adjusted reporting limit.
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-03 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499505 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81946

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/08/07 **Analyzed:** 02/14/07 17:22 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND		0.224	2.00	

1 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-04 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499508 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82037

Method: 8081 Pests Water **Units:** ug/L **Target List:** 8081_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/07/07 **Analyzed:** 02/14/07 18:52 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

3/1/2007 13:18:53

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-04 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499508 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81946

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/08/07 **Analyzed:** 02/14/07 17:50 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND		0.224	2.00	

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-05 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499509 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82037

Method: 8081 Pests Water **Units:** ug/L **Target List:** 8081_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/07/07 **Analyzed:** 02/14/07 19:09 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-05 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499509 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81946

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/08/07 **Analyzed:** 02/14/07 18:17 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND		0.224	2.00	

1 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-02 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499510 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82037

Method: 8081 Pests Water **Units:** ug/L **Target List:** 8081_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/07/07 **Analyzed:** 02/14/07 19:25 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-02 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499510 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81946

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/08/07 **Analyzed:** 02/14/07 18:45 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND		0.224	2.00	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: SW-06 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499511 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82037

Method: 8081 Pests Water **Units:** ug/L **Target List:** 8081_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/07/07 **Analyzed:** 02/14/07 19:42 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
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Client: Arcadis Geraghty & Miller

Client ID: SW-06 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499511 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81946

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/08/07 **Analyzed:** 02/14/07 19:12 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND		0.224	2.00	

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Client: Arcadis Geraghty & Miller

Client ID: SW-07 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499512 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82037

Method: 8081 Pests Water **Units:** ug/L **Target List:** 8081_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/07/07 **Analyzed:** 02/14/07 19:58 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Client: Arcadis Geraghty & Miller

Client ID: SW-07 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499512 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81946

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/08/07 **Analyzed:** 02/14/07 20:35 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND		0.224	2.00	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: SW-08 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499513 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82037

Method: 8081 Pests Water **Units:** ug/L **Target List:** 8081_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/07/07 **Analyzed:** 02/14/07 20:15 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-08 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499513 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81946

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/08/07 **Analyzed:** 02/23/07 16:32 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	10	53.5	D1,N	2.24	20.0	

1 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-15 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499514 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82037

Method: 8081 Pests Water **Units:** ug/L **Target List:** 8081_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/07/07 **Analyzed:** 02/14/07 20:31 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: SW-15 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499514 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81946

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/08/07 **Analyzed:** 02/14/07 21:30 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND		0.224	2.00	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: SOUTH SUMP
Site: None
Project: MS BLUFFS/LA002656.0001.00014
Project No.: 2066467
Sample Qu:
Lab ID: 20499515
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 82082
Method: 8081 Pests Water
Units: ug/L
Target List: 8081_WL20
Collected: 02/01/07
Received: 02/02/07
Prep Factor: 1
Prepared: 02/08/07
Analyzed: 02/13/07 12:21 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

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DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
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Client: Arcadis Geraghty & Miller

Client ID: SOUTH SUMP
Site: None
Project: MS BLUFFS/LA002656.0001.00014
Project No.: 2066467
Sample Qu:
Lab ID: 20499515
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 81946
Method: 8151 Herbs Water
Units: ug/L
Target List: 8151_WL20
Collected: 02/01/07
Received: 02/02/07
Prep Factor: 1
Prepared: 02/08/07
Analyzed: 02/14/07 21:57 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND		0.224	2.00	

1 compound(s) reported

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DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
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Client: Arcadis Geraghty & Miller

Client ID: SW-10 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499516 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82082

Method: 8081 Pests Water **Units:** ug/L **Target List:** 8081_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/08/07 **Analyzed:** 02/13/07 12:38 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

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DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
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Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-10 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499516 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81946

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/08/07 **Analyzed:** 02/14/07 22:25 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND		0.224	2.00	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: SW-11 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499517 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82082

Method: 8081 Pests Water **Units:** ug/L **Target List:** 8081_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/08/07 **Analyzed:** 02/13/07 12:54 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: SW-11 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499517 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81946

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/08/07 **Analyzed:** 02/14/07 22:52 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND		0.224	2.00	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: SW-13 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499518 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82082

Method: 8081 Pests Water **Units:** ug/L **Target List:** 8081_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/08/07 **Analyzed:** 02/13/07 13:11 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Client: Arcadis Geraghty & Miller

Client ID: SW-13 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499518 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81945

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/08/07 **Analyzed:** 02/23/07 17:00 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	10	23.4	D1,N	2.24	20.0	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: SW-09 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499519 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82082

Method: 8081 Pests Water **Units:** ug/L **Target List:** 8081_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/08/07 **Analyzed:** 02/13/07 13:27 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: SW-09 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499519 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81945

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/08/07 **Analyzed:** 02/15/07 00:42 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND		0.224	2.00	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: SW-14 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499520 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82082

Method: 8081 Pests Water **Units:** ug/L **Target List:** 8081_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/08/07 **Analyzed:** 02/13/07 13:43 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

3/1/2007 13:18:56

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Client: Arcadis Geraghty & Miller

Client ID: SW-14 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499520 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81945

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/08/07 **Analyzed:** 02/15/07 02:05 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND	N	0.224	2.00	

1 compound(s) reported

3/1/2007 13:18:56

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Client: Arcadis Geraghty & Miller

Client ID: SW-12 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499521 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82082

Method: 8081 Pests Water **Units:** ug/L **Target List:** 8081_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/08/07 **Analyzed:** 02/19/07 17:28 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	6.91			2.00	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: SW-12 **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499521 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 81945

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 02/01/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/08/07 **Analyzed:** 02/23/07 17:27 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	100	600.	D1,N	22.4	200.	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: SW-NORTH SUMP(020207) **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499680 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82082

Method: 8081 Pests Water **Units:** ug/L **Target List:** 8081_WL20

Collected: 02/02/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/08/07 **Analyzed:** 02/13/07 14:16 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: SW-NORTH SUMP(020207) **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499680 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82113

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 02/02/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/09/07 **Analyzed:** 02/22/07 16:05 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND	N	0.224	2.00	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: SW-NORTH POND(020207) **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499681 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82082

Method: 8081 Pests Water **Units:** ug/L **Target List:** 8081_WL20

Collected: 02/02/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/08/07 **Analyzed:** 02/13/07 14:33 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

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Client: Arcadis Geraghty & Miller

Client ID: SW-NORTH POND(020207) **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499681 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82113

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 02/02/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/09/07 **Analyzed:** 02/22/07 12:53 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND	N	0.224	2.00	

1 compound(s) reported

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Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
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Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Client: Arcadis Geraghty & Miller

Client ID: SW-POND A (020207) **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499682 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82082

Method: 8081 Pests Water **Units:** ug/L **Target List:** 8081_WL20

Collected: 02/02/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/08/07 **Analyzed:** 02/13/07 14:49 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: SW-POND A (020207) **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499682 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82113

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 02/02/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/09/07 **Analyzed:** 02/22/07 13:20 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	15.1	N	0.224	2.00	

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
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Client: Arcadis Geraghty & Miller

Client ID: SW-DISCHARGE POND A (020207) **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499683 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82082

Method: 8081 Pests Water **Units:** ug/L **Target List:** 8081_WL20

Collected: 02/02/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/08/07 **Analyzed:** 02/13/07 15:06 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

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ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
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Client: Arcadis Geraghty & Miller

Client ID: SW-DISCHARGE POND A (020207) **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499683 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82113

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 02/02/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/09/07 **Analyzed:** 02/22/07 13:48 SLF(1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	18.7	N	0.224	2.00	

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
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Client: Arcadis Geraghty & Miller

Client ID: SW-POND C (020207)) **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499684 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82082

Method: 8081 Pests Water **Units:** ug/L **Target List:** 8081_WL20

Collected: 02/02/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/08/07 **Analyzed:** 02/19/07 17:44 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: SW-POND C (020207)) **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499684 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82113

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 02/02/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/09/07 **Analyzed:** 02/22/07 14:15 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	14.4	N	0.224	2.00	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: SW-POND B (020207))
Site: None
Project: MS BLUFFS/LA002656.0001.00014
Project No.: 2066467
Sample Qu:
Lab ID: 20499685
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 82082
Method: 8081 Pests Water
Units: ug/L
Target List: 8081_WL20
Collected: 02/02/07
Received: 02/02/07
Prep Factor: 1
Prepared: 02/08/07
Analyzed: 02/13/07 15:39 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-POND B (020207))
Site: None
Project: MS BLUFFS/LA002656.0001.00014
Project No.: 2066467
Sample Qu:
Lab ID: 20499685
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 82113
Method: 8151 Herbs Water
Units: ug/L
Target List: 8151_WL20
Collected: 02/02/07
Received: 02/02/07
Prep Factor: 1
Prepared: 02/09/07
Analyzed: 02/22/07 17:27 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	21.3	N	0.224	2.00	

1 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SW-DUP-02 (020207) **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499686 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82082

Method: 8081 Pests Water **Units:** ug/L **Target List:** 8081_WL20

Collected: 02/02/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/08/07 **Analyzed:** 02/13/07 15:55 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: SW-DUP-02 (020207) **Site:** None

Project: MS BLUFFS/LA002656.0001.00014 **Project No.:** 2066467 **Sample Qu:**

Lab ID: 20499686 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82113

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 02/02/07 **Received:** 02/02/07

Prep Factor: 1 **Prepared:** 02/09/07 **Analyzed:** 02/22/07 17:55 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	21.8	N	0.224	2.00	

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Client ID: SW-01 **Client:** Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.0001.00014 **Site:** None

Lab ID: 20499500 **Project No.:** 2066467

Description: None **Matrix:** Water **%Moisture:** n/a

Collected: 02/01/07 **Received:** 02/02/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
Arsenic	EPA 6010	81950	1	19.6		ug/L	6.05	10.0	02/05	02/15 22:37 KJR (1)	
Arsenic, Dissolved	EPA 6010	81961	1	25.6		ug/L	5.12	10.0	02/05	02/14 17:45 KJR (1)	

2 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Client ID: SW-DUP-01 **Client:** Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.0001.00014 **Site:** None

Lab ID: 20499501 **Project No.:** 2066467

Description: None **Matrix:** Water **%Moisture:** n/a

Collected: 02/01/07 **Received:** 02/02/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	81950	1	21.9		ug/L	6.05	10.0	02/05	02/15 22:42	KJR (1)	
Arsenic, Dissolved	EPA 6010	81961	1	27.6		ug/L	5.12	10.0	02/05	02/14 17:50	KJR (1)	

2 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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LELAP # 02006

Client ID: SW-03 **Client:** Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.0001.00014 **Site:** None

Lab ID: 20499505 **Project No.:** 2066467

Description: None **Matrix:** Water **%Moisture:** n/a

Collected: 02/01/07 **Received:** 02/02/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	81950	1	34.5		ug/L	6.05	10.0	02/05	02/15 22:56	KJR (1)	
Arsenic, Dissolved	EPA 6010	81961	1	26.0		ug/L	5.12	10.0	02/05	02/14 20:01	KJR (1)	

2 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health .Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: SW-04 **Client:** Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.0001.00014 **Site:** None

Lab ID: 20499508 **Project No.:** 2066467

Description: None **Matrix:** Water **%Moisture:** n/a

Collected: 02/01/07 **Received:** 02/02/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	81950	1	18.2		ug/L	6.05	10.0	02/05	02/15 23:01	KJR (1)	
Arsenic, Dissolved	EPA 6010	81961	1	24.5		ug/L	5.12	10.0	02/05	02/14 20:06	KJR (1)	

2 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Client ID: SW-05 **Client:** Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.0001.00014 **Site:** None

Lab ID: 20499509 **Project No.:** 2066467

Description: None **Matrix:** Water **%Moisture:** n/a

Collected: 02/01/07 **Received:** 02/02/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	81950	1	10.7		ug/L	6.05	10.0	02/05	02/15 23:06	KJR (1)	
Arsenic, Dissolved	EPA 6010	81961	1	5.83	J	ug/L	5.12	10.0	02/05	02/14 20:12	KJR (1)	

2 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Client ID: SW-02
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001.00014
Site: None
Lab ID: 20499510
Project No.: 2066467
Description: None
Matrix: Water **%Moisture:** n/a
Collected: 02/01/07 **Received:** 02/02/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	81950	1	ND		ug/L	6.05	10.0	02/05	02/15 23:12	KJR (1)	
Arsenic, Dissolved	EPA 6010	81961	1	ND		ug/L	5.12	10.0	02/05	02/14 20:17	KJR (1)	

2 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
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Client ID: SW-06 **Client:** Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.0001.00014 **Site:** None

Lab ID: 20499511 **Project No.:** 2066467

Description: None **Matrix:** Water **%Moisture:** n/a

Collected: 02/01/07 **Received:** 02/02/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	81950	1	10.0		ug/L	6.05	10.0	02/05	02/15 23:17	KJR (1)	
Arsenic, Dissolved	EPA 6010	81961	1	8.60	J	ug/L	5.12	10.0	02/05	02/14 20:22	KJR (1)	

2 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
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For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
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Client ID: SW-07 **Client:** Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.0001.00014 **Site:** None

Lab ID: 20499512 **Project No.:** 2066467

Description: None **Matrix:** Water **%Moisture:** n/a

Collected: 02/01/07 **Received:** 02/02/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
Arsenic	EPA 6010	82103	1	10.5		ug/L	6.05	10.0	02/08	02/15 23:32 KJR (1)	
Arsenic, Dissolved	EPA 6010	82351	1	8.93	J	ug/L	5.12	10.0	02/16	02/17 01:53 KJR (1)	

2 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
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Client ID: SW-08 **Client:** Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.0001.00014 **Site:** None

Lab ID: 20499513 **Project No.:** 2066467

Description: None **Matrix:** Water **%Moisture:** n/a

Collected: 02/01/07 **Received:** 02/02/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82103	1	32.7		ug/L	6.05	10.0	02/08	02/16 00:01	KJR (1)	
Arsenic, Dissolved	EPA 6010	82351	1	16.0		ug/L	5.12	10.0	02/16	02/17 02:13	KJR (1)	

2 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
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Client ID: SW-15 **Client:** Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.0001.00014 **Site:** None

Lab ID: 20499514 **Project No.:** 2066467

Description: None **Matrix:** Water **%Moisture:** n/a

Collected: 02/01/07 **Received:** 02/02/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82103	1	8.58	J	ug/L	6.05	10.0	02/08	02/16 00:05	KJR (1)	
Arsenic, Dissolved	EPA 6010	82351	1	15.5		ug/L	5.12	10.0	02/16	02/17 02:18	KJR (1)	

2 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
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LELAP # 02006

Client ID: SOUTH SUMP
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001.00014
Site: None
Lab ID: 20499515
Project No.: 2066467
Description: None
Matrix: Water
%Moisture: n/a
Collected: 02/01/07
Received: 02/02/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
Arsenic	EPA 6010	82103	1	22.4		ug/L	6.05	10.0	02/08	02/16 00:10 KJR (1)	
Arsenic, Dissolved	EPA 6010	82351	1	12.9		ug/L	5.12	10.0	02/16	02/17 02:23 KJR (1)	

2 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
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Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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LELAP # 02006

Client ID: SW-10 **Client:** Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.0001.00014 **Site:** None

Lab ID: 20499516 **Project No.:** 2066467

Description: None **Matrix:** Water **%Moisture:** n/a

Collected: 02/01/07 **Received:** 02/02/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
Arsenic	EPA 6010	82103	1	20.0		ug/L	6.05	10.0	02/08	02/16 00:17 KJR (1)	
Arsenic, Dissolved	EPA 6010	82351	1	31.0		ug/L	5.12	10.0	02/16	02/17 02:28 KJR (1)	

2 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
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Client ID: SW-11
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001.00014
Site: None
Lab ID: 20499517
Project No.: 2066467
Description: None
Matrix: Water
%Moisture: n/a
Collected: 02/01/07
Received: 02/02/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82103	1	16.5		ug/L	6.05	10.0	02/08	02/16 00:22	KJR (1)	
Arsenic, Dissolved	EPA 6010	82351	1	9.40	J	ug/L	5.12	10.0	02/16	02/17 02:42	KJR (1)	

2 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Client ID: SW-13 **Client:** Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.0001.00014 **Site:** None

Lab ID: 20499518 **Project No.:** 2066467

Description: None **Matrix:** Water **%Moisture:** n/a

Collected: 02/01/07 **Received:** 02/02/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82103	1	43.4		ug/L	6.05	10.0	02/08	02/16 00:26	KJR (1)	
Arsenic, Dissolved	EPA 6010	82351	1	23.9		ug/L	5.12	10.0	02/16	02/17 02:47	KJR (1)	

2 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Client ID: SW-09
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001.00014
Site: None
Lab ID: 20499519
Project No.: 2066467
Description: None
Matrix: Water
%Moisture: n/a
Collected: 02/01/07
Received: 02/02/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82103	1	ND		ug/L	6.05	10.0	02/08	02/16 00:31	KJR (1)	
Arsenic, Dissolved	EPA 6010	82351	1	ND		ug/L	5.12	10.0	02/16	02/17 02:52	KJR (1)	

2 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Client ID: SW-14 **Client:** Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.0001.00014 **Site:** None

Lab ID: 20499520 **Project No.:** 2066467

Description: None **Matrix:** Water **%Moisture:** n/a

Collected: 02/01/07 **Received:** 02/02/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82103	1	ND		ug/L	6.05	10.0	02/08	02/16 00:36	KJR (1)	
Arsenic, Dissolved	EPA 6010	82351	1	ND		ug/L	5.12	10.0	02/16	02/17 02:58	KJR (1)	

2 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/1/2007 13:19:02

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LELAP # 02006

Client ID: SW-12 **Client:** Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.0001.00014 **Site:** None

Lab ID: 20499521 **Project No.:** 2066467

Description: None **Matrix:** Water **%Moisture:** n/a

Collected: 02/01/07 **Received:** 02/02/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82103	1	ND		ug/L	6.05	10.0	02/08	02/16 00:41	KJR (1)	
Arsenic, Dissolved	EPA 6010	82351	1	8.47	J	ug/L	5.12	10.0	02/16	02/17 03:03	KJR (1)	

2 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Client ID: SW-NORTH SUMP(020207)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001.00014
Site: None
Lab ID: 20499680
Project No.: 2066467
Description: None
Matrix: Water
%Moisture: n/a
Collected: 02/02/07
Received: 02/02/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82103	1	24.1		ug/L	6.05	10.0	02/08	02/16 00:56	KJR (1)	
Arsenic, Dissolved	EPA 6010	82351	1	16.2		ug/L	5.12	10.0	02/16	02/17 03:08	KJR (1)	

2 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
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(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Client ID: SW-NORTH POND(020207)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001.00014
Site: None
Lab ID: 20499681
Project No.: 2066467
Description: None
Matrix: Water
%Moisture: n/a
Collected: 02/02/07
Received: 02/02/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82103	1	8.42	J	ug/L	6.05	10.0	02/08	02/16 01:00	KJR (1)	
Arsenic, Dissolved	EPA 6010	82351	1	18.8		ug/L	5.12	10.0	02/16	02/17 03:13	KJR (1)	

2 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
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(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Client ID: SW-POND A (020207)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001.00014
Site: None
Lab ID: 20499682
Project No.: 2066467
Description: None
Matrix: Water
%Moisture: n/a
Collected: 02/02/07
Received: 02/02/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82103	1	30.1		ug/L	6.05	10.0	02/08	02/16 01:05	KJR (1)	
Arsenic, Dissolved	EPA 6010	82351	1	16.9		ug/L	5.12	10.0	02/16	02/17 03:18	KJR (1)	

2 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
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LELAP # 02006

Client ID: SW-DISCHARGE POND A (020207)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001.00014
Site: None
Lab ID: 20499683
Project No.: 2066467
Description: None
Matrix: Water
%Moisture: n/a
Collected: 02/02/07
Received: 02/02/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82103	1	22.6		ug/L	6.05	10.0	02/08	02/16 01:10	KJR (1)	
Arsenic, Dissolved	EPA 6010	82351	1	24.0		ug/L	5.12	10.0	02/16	02/17 03:22	KJR (1)	

2 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Client ID: SW-POND C (020207))
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001.00014
Site: None
Lab ID: 20499684
Project No.: 2066467
Description: None
Matrix: Water **%Moisture:** n/a
Collected: 02/02/07 **Received:** 02/02/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82103	1	40.9		ug/L	6.05	10.0	02/08	02/16 01:15	KJR (1)	
Arsenic, Dissolved	EPA 6010	82351	1	33.7		ug/L	5.12	10.0	02/16	02/17 03:27	KJR (1)	

2 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
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Client ID: SW-POND B (020207))
Project: MS BLUFFS/LA002656.0001.00014
Lab ID: 20499685
Description: None

Client: Arcadis Geraghty & Miller
Site: None
Project No.: 2066467
Matrix: Water **%Moisture:** n/a
Collected: 02/02/07 **Received:** 02/02/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82103	1	19.3		ug/L	6.05	10.0	02/08	02/16 01:21	KJR (1)	
Arsenic, Dissolved	EPA 6010	82351	1	34.5		ug/L	5.12	10.0	02/16	02/17 03:42	KJR (1)	

2 parameter(s) reported

ND dénotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
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Client ID: SW-DUP-02 (020207)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001.00014
Site: None
Lab ID: 20499686
Project No.: 2066467
Description: None
Matrix: Water **%Moisture:** n/a
Collected: 02/02/07 **Received:** 02/02/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82103	1	18.7		ug/L	6.05	10.0	02/08	02/16 01:26	KJR (1)	
Arsenic, Dissolved	EPA 6010	82351	1	26.3		ug/L	5.12	10.0	02/16	02/17 03:47	KJR (1)	

2 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
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LELAP # 02006

Client ID: SW-01 **Client:** Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.0001.00014 **Site:** None

Lab ID: 20499500 **Project No.:** 2066467

Description: None **Matrix:** Water **%Moisture:** n/a

Collected: 02/01/07 **Received:** 02/02/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
BOD, 5 day	EPA 405.1	81936	1	ND		mg/L		6.00	02/03	02/03 11:45 SMS2 (1)	
Chemical Oxygen Dema	EPA 410.4	81965	1	28.0		mg/L	2.51	5.00	02/05	02/05 13:20 MHM (1)	
Chloride	EPA 325.3	82033	1	18.1		mg/L		1.00	02/06	02/06 14:35 LJL (1)	
Nitrate-Nitrite (as N)	EPA 353.2	82010	1	0.879		mg/L	0.0646	0.100	02/06	02/06 12:48 MHM (1)	
Nitrogen, Ammonia	EPA 350.1	82089	1	0.113		mg/L		0.100	02/14	02/14 13:25 TAE (1)	
pH	EPA 150.1	81941	1	7.47		Std. Units			02/03	02/03 15:20 SMS2 (1)	
Phosphorus	EPA 365.4	82049	1	0.339		mg/L	0.0929	0.100	02/07	02/07 15:12 MHM (1)	
Sulfate	EPA 375.4	81969	1	1.07		mg/L	0.465	1.00	02/05	02/05 12:10 MHM (1)	
Total Dissolved Solids	EPA 160.1	81954	1	420.		mg/L		10.0	02/05	02/05 16:00 LJL (1)	
Total Suspended Solids	EPA 160.2	81951	1	78.0		mg/L		4.00	02/05	02/05 13:30 LJL (1)	

10 parameter(s) reported

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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
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(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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LELAP # 02006

Client ID: SW-DUP-01 **Client:** Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.0001.00014 **Site:** None

Lab ID: 20499501 **Project No.:** 2066467

Description: None **Matrix:** Water **%Moisture:** n/a

Collected: 02/01/07 **Received:** 02/02/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
BOD, 5 day	EPA 405.1	81936	1	ND	N	mg/L		6.00	02/03	02/03 11:45 SMS2 (1)	
Chemical Oxygen Dema	EPA 410.4	81965	1	33.0		mg/L	2.51	5.00	02/05	02/05 13:20 MHM (1)	
Chloride	EPA 325.3	82033	1	19.7		mg/L		1.00	02/06	02/06 14:35 LJL (1)	
Nitrate-Nitrite (as N)	EPA 353.2	82010	1	1.46		mg/L	0.0646	0.100	02/06	02/06 12:49 MHM (1)	
Nitrogen, Ammonia	EPA 350.1	82089	1	ND		mg/L		0.100	02/14	02/14 13:25 TAE (1)	
pH	EPA 150.1	81941	1	7.47		Std. Units			02/03	02/03 15:20 SMS2 (1)	
Phosphorus	EPA 365.4	82049	1	0.336		mg/L	0.0929	0.100	02/07	02/07 15:17 MHM (1)	
Sulfate	EPA 375.4	81969	1	ND		mg/L	0.465	1.00	02/05	02/05 12:10 MHM (1)	
Total Dissolved Solids	EPA 160.1	81954	1	325.		mg/L		10.0	02/05	02/05 16:00 LJL (1)	
Total Suspended Solids	EPA 160.2	81951	1	67.0		mg/L		4.00	02/05	02/05 13:30 LJL (1)	

10 parameter(s) reported

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For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Client ID: SW-03 **Client:** Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.0001.00014 **Site:** None

Lab ID: 20499505 **Project No.:** 2066467

Description: None **Matrix:** Water **%Moisture:** n/a

Collected: 02/01/07 **Received:** 02/02/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
BOD, 5 day	EPA 405.1	81936	1	ND		mg/L		6.00	02/03	02/03 11:45 SMS2 (1)	
Chemical Oxygen Dema	EPA 410.4	81965	1	31.0		mg/L	2.51	5.00	02/05	02/05 13:20 MHM (1)	
Chloride	EPA 325.3	82033	1	23.0		mg/L		1.00	02/06	02/06 14:35 LJL (1)	
Nitrate-Nitrite (as N)	EPA 353.2	82010	1	1.26		mg/L	0.0646	0.100	02/06	02/06 12:50 MHM (1)	
Nitrogen, Ammonia	EPA 350.1	82089	1	0.110		mg/L		0.100	02/14	02/14 13:25 TAE (1)	
pH	EPA 150.1	81941	1	7.49		Std. Units			02/03	02/03 15:20 SMS2 (1)	
Phosphorus	EPA 365.4	82049	1	0.318		mg/L	0.0929	0.100	02/07	02/07 15:18 MHM (1)	
Sulfate	EPA 375.4	81969	1	ND		mg/L	0.465	1.00	02/05	02/05 12:23 MHM (1)	
Total Dissolved Solids	EPA 160.1	81954	1	400.		mg/L		10.0	02/05	02/05 16:00 LJL (1)	
Total Suspended Solids	EPA 160.2	81951	1	63.0		mg/L		4.00	02/05	02/05 13:30 LJL (1)	

10 parameter(s) reported

3/1/2007 13:19:06

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Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Client ID: SW-04 **Client:** Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.0001.00014 **Site:** None

Lab ID: 20499508 **Project No.:** 2066467

Description: None **Matrix:** Water **%Moisture:** n/a

Collected: 02/01/07 **Received:** 02/02/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
BOD, 5 day	EPA 405.1	81936	1	ND		mg/L		6.00	02/03	02/03 11:45 SMS2 (1)	
Chemical Oxygen Dema	EPA 410.4	81965	1	32.0		mg/L	2.51	5.00	02/05	02/05 13:20 MHM (1)	
Chloride	EPA 325.3	82033	1	18.1		mg/L		1.00	02/06	02/06 14:35 LJL (1)	
Nitrate-Nitrite (as N)	EPA 353.2	82010	1	1.17		mg/L	0.0646	0.100	02/06	02/06 12:51 MHM (1)	
Nitrogen, Ammonia	EPA 350.1	82089	1	0.272		mg/L		0.100	02/14	02/14 13:35 TAE (1)	
pH	EPA 150.1	81941	1	7.40		Std. Units			02/03	02/03 15:20 SMS2 (1)	
Phosphorus	EPA 365.4	82049	1	2.44		mg/L	0.0929	0.100	02/07	02/07 15:19 MHM (1)	
Sulfate	EPA 375.4	81969	1	1.34		mg/L	0.465	1.00	02/05	02/05 12:23 MHM (1)	
Total Dissolved Solids	EPA 160.1	81954	1	350.		mg/L		10.0	02/05	02/05 16:00 LJL (1)	
Total Suspended Solids	EPA 160.2	81951	1	96.0		mg/L		4.00	02/05	02/05 13:30 LJL (1)	

10 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Client ID: SW-05 **Client:** Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.0001.00014 **Site:** None

Lab ID: 20499509 **Project No.:** 2066467

Description: None **Matrix:** Water **%Moisture:** n/a

Collected: 02/01/07 **Received:** 02/02/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
BOD, 5 day	EPA 405.1	81936	1	ND		mg/L		6.00	02/03	02/03 11:45 SMS2 (1)	
Chemical Oxygen Dema	EPA 410.4	81965	1	30.0		mg/L	2.51	5.00	02/05	02/05 13:20 MHM (1)	
Chloride	EPA 325.3	82033	1	19.7		mg/L		1.00	02/06	02/06 14:35 LJL (1)	
Nitrate-Nitrite (as N)	EPA 353.2	82010	1	0.555		mg/L	0.0646	0.100	02/06	02/06 15:10 MHM (1)	
Nitrogen, Ammonia	EPA 350.1	82089	1	ND		mg/L		0.100	02/14	02/14 13:35 TAE (1)	
pH	EPA 150.1	81941	1	7.58		Std. Units			02/03	02/03 15:20 SMS2 (1)	
Phosphorus	EPA 365.4	82049	1	1.60		mg/L	0.0929	0.100	02/07	02/07 15:20 MHM (1)	
Sulfate	EPA 375.4	81969	1	ND		mg/L	0.465	1.00	02/05	02/05 12:23 MHM (1)	
Total Dissolved Solids	EPA 160.1	81954	1	145.		mg/L		10.0	02/05	02/05 16:00 LJL (1)	
Total Suspended Solids	EPA 160.2	81951	1	13.0		mg/L		4.00	02/05	02/05 13:30 LJL (1)	

10 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Client ID: SW-02
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001.00014
Site: None
Lab ID: 20499510
Project No.: 2066467
Description: None
Matrix: Water
%Moisture: n/a
Collected: 02/01/07
Received: 02/02/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
BOD, 5 day	EPA 405.1	81936	1	ND		mg/L		6.00	02/03	02/03 11:45 SMS2 (1)	
Chemical Oxygen Dema	EPA 410.4	81965	1	22.0		mg/L	2.51	5.00	02/05	02/05 13:20 MHM (1)	
Chloride	EPA 325.3	82033	1	18.1		mg/L		1.00	02/06	02/06 14:35 LJL (1)	
Nitrate-Nitrite (as N)	EPA 353.2	82010	1	ND		mg/L	0.0646	0.100	02/06	02/06 15:11 MHM (1)	
Nitrogen, Ammonia	EPA 350.1	82089	1	ND		mg/L		0.100	02/14	02/14 13:35 TAE (1)	
pH	EPA 150.1	81941	1	7.39		Std. Units			02/03	02/03 15:20 SMS2 (1)	
Phosphorus	EPA 365.4	82049	1	ND		mg/L	0.0929	0.100	02/07	02/07 15:21 MHM (1)	
Sulfate	EPA 375.4	81969	1	ND		mg/L	0.465	1.00	02/05	02/05 12:23 MHM (1)	
Total Dissolved Solids	EPA 160.1	81954	1	160.		mg/L		10.0	02/05	02/05 16:00 LJL (1)	
Total Suspended Solids	EPA 160.2	81951	1	ND		mg/L		4.00	02/05	02/05 13:30 LJL (1)	

10 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Client ID: SW-06 **Client:** Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.0001.00014 **Site:** None

Lab ID: 20499511 **Project No.:** 2066467

Description: None **Matrix:** Water **%Moisture:** n/a

Collected: 02/01/07 **Received:** 02/02/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
BOD, 5 day	EPA 405.1	81936	1	ND		mg/L		6.00	02/03	02/03 11:45 SMS2 (1)	
Chemical Oxygen Dema	EPA 410.4	81965	1	35.0		mg/L	2.51	5.00	02/05	02/05 13:20 MHM (1)	
Chloride	EPA 325.3	82033	1	18.1		mg/L		1.00	02/06	02/06 14:35 LJL (1)	
Nitrate-Nitrite (as N)	EPA 353.2	82010	20	24.5	D1	mg/L	1.29	2.00	02/06	02/06 15:13 MHM (1)	
Nitrogen, Ammonia	EPA 350.1	82089	1	ND		mg/L		0.100	02/14	02/14 13:35 TAE (1)	
pH	EPA 150.1	81941	1	6.37		Std. Units			02/03	02/03 15:20 SMS2 (1)	
Phosphorus	EPA 365.4	82049	1	1.36		mg/L	0.0929	0.100	02/07	02/07 15:22 MHM (1)	
Sulfate	EPA 375.4	81969	1	ND		mg/L	0.465	1.00	02/05	02/05 12:23 MHM (1)	
Total Dissolved Solids	EPA 160.1	81954	1	115.		mg/L		10.0	02/05	02/05 16:00 LJL (1)	
Total Suspended Solids	EPA 160.2	81951	1	6.00		mg/L		4.00	02/05	02/05 13:30 LJL (1)	

10 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Client ID: SW-07
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001.00014
Site: None
Lab ID: 20499512
Project No.: 2066467
Description: None
Matrix: Water
%Moisture: n/a
Collected: 02/01/07
Received: 02/02/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
BOD, 5 day	EPA 405.1	81936	1	ND		mg/L		6.00	02/03	02/03 11:45 SMS2 (1)	
Chemical Oxygen Dema	EPA 410.4	81965	1	30.0		mg/L	2.51	5.00	02/05	02/05 13:20 MHM (1)	
Chloride	EPA 325.3	82033	1	19.7		mg/L		1.00	02/06	02/06 14:35 LJL (1)	
Nitrate-Nitrite (as N)	EPA 353.2	82010	1	ND		mg/L	0.0646	0.100	02/06	02/06 15:16 MHM (1)	
Nitrogen, Ammonia	EPA 350.1	82089	1	0.157		mg/L		0.100	02/14	02/14 13:35 TAE (1)	
pH	EPA 150.1	81941	1	7.82		Std. Units			02/03	02/03 15:20 SMS2 (1)	
Phosphorus	EPA 365.4	82049	1	0.230		mg/L	0.0929	0.100	02/07	02/07 15:25 MHM (1)	
Sulfate	EPA 375.4	81969	1	ND		mg/L	0.465	1.00	02/05	02/05 12:23 MHM (1)	
Total Dissolved Solids	EPA 160.1	81954	1	205.		mg/L		10.0	02/05	02/05 16:00 LJL (1)	
Total Suspended Solids	EPA 160.2	81951	1	35.0		mg/L		4.00	02/05	02/05 13:30 LJL (1)	

10 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Client ID: SW-08 **Client:** Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.0001.00014 **Site:** None

Lab ID: 20499513 **Project No.:** 2066467

Description: None **Matrix:** Water **%Moisture:** n/a

Collected: 02/01/07 **Received:** 02/02/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
BOD, 5 day	EPA 405.1	81936	1	ND		mg/L		6.00	02/03	02/03 11:45 SMS2 (1)	
Chemical Oxygen Dema	EPA 410.4	81965	1	63.0		mg/L	2.51	5.00	02/05	02/05 13:20 MHM (1)	
Chloride	EPA 325.3	82033	1	23.0		mg/L		1.00	02/06	02/06 14:35 LJL (1)	
Nitrate-Nitrite (as N)	EPA 353.2	82010	1000	529.	D1	mg/L	64.6	100.	02/06	02/06 17:48 MHM (1)	
Nitrogen, Ammonia	EPA 350.1	82089	500	535.	D1	mg/L		50.0	02/21	02/21 12:29 MHM (1)	
pH	EPA 150.1	81941	1	7.02		Std. Units			02/03	02/03 15:20 SMS2 (1)	
Phosphorus	EPA 365.4	82049	1	0.241		mg/L	0.0929	0.100	02/07	02/07 15:26 MHM (1)	
Sulfate	EPA 375.4	81969	5	ND	D1	mg/L	2.32	5.00	02/05	02/05 12:30 MHM (1)	
Total Dissolved Solids	EPA 160.1	81954	1	1440		mg/L		10.0	02/05	02/05 16:00 LJL (1)	
Total Suspended Solids	EPA 160.2	81951	1	8.00		mg/L		4.00	02/05	02/05 13:30 LJL (1)	

10 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Client ID: SW-15 **Client:** Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.0001.00014 **Site:** None

Lab ID: 20499514 **Project No.:** 2066467

Description: None **Matrix:** Water **%Moisture:** n/a

Collected: 02/01/07 **Received:** 02/02/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
BOD, 5 day	EPA 405.1	81936	1	ND		mg/L		6.00	02/03	02/03 11:45 SMS2 (1)	
Chemical Oxygen Dema	EPA 410.4	81965	1	22.0		mg/L	2.51	5.00	02/05	02/05 13:20 MHM (1)	
Chloride	EPA 325.3	82033	1	37.8		mg/L		1.00	02/06	02/06 14:35 LJL (1)	
Nitrate-Nitrite (as N)	EPA 353.2	82010	20	38.4	D1	mg/L	1.29	2.00	02/06	02/06 15:18 MHM (1)	
Nitrogen, Ammonia	EPA 350.1	82089	5	2.01	D1	mg/L		0.500	02/14	02/14 13:35 TAE (1)	
pH	EPA 150.1	81941	1	9.72		Std. Units			02/03	02/03 15:20 SMS2 (1)	
Phosphorus	EPA 365.4	82049	1	0.491		mg/L	0.0929	0.100	02/07	02/07 15:28 MHM (1)	
Sulfate	EPA 375.4	81969	1	ND		mg/L	0.465	1.00	02/05	02/05 12:23 MHM (1)	
Total Dissolved Solids	EPA 160.1	81954	1	250.		mg/L		10.0	02/05	02/05 16:00 LJL (1)	
Total Suspended Solids	EPA 160.2	81951	1	11.0		mg/L		4.00	02/05	02/05 13:30 LJL (1)	

10 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Client ID: SOUTH SUMP
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001.00014
Site: None
Lab ID: 20499515
Project No.: 2066467
Description: None
Matrix: Water
%Moisture: n/a
Collected: 02/01/07
Received: 02/02/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
BOD, 5 day	EPA 405.1	81936	1	ND		mg/L		6.00	02/03	02/03 11:45 SMS2 (1)	
Chemical Oxygen Dema	EPA 410.4	81965	1	35.0		mg/L	2.51	5.00	02/05	02/05 13:20 MHM (1)	
Chloride	EPA 325.3	82033	1	16.4		mg/L		1.00	02/06	02/06 14:35 LJL (1)	
Nitrate-Nitrite (as N)	EPA 353.2	82010	1	1.18		mg/L	0.0646	0.100	02/06	02/06 17:49 MHM (1)	
Nitrogen, Ammonia	EPA 350.1	82089	1	ND		mg/L		0.100	02/14	02/14 13:35 TAE (1)	
pH	EPA 150.1	81941	1	7.43		Std. Units			02/03	02/03 15:20 SMS2 (1)	
Phosphorus	EPA 365.4	82049	10	9.26	D1	mg/L	0.929	1.00	02/07	02/07 16:33 MHM (1)	
Sulfate	EPA 375.4	81969	1	ND		mg/L	0.465	1.00	02/05	02/05 12:23 MHM (1)	
Total Dissolved Solids	EPA 160.1	81954	1	230.		mg/L		10.0	02/05	02/05 16:00 LJL (1)	
Total Suspended Solids	EPA 160.2	81951	1	5.00		mg/L		4.00	02/05	02/05 13:30 LJL (1)	

10 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
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For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/1/2007 13:19:07

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Louisiana Dept. of Environmental Quality (LELAP) - 02006
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Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health .Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

Report of Laboratory Analysis

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: SW-10 **Client:** Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.0001.00014 **Site:** None

Lab ID: 20499516 **Project No.:** 2066467

Description: None **Matrix:** Water **%Moisture:** n/a

Collected: 02/01/07 **Received:** 02/02/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
BOD, 5 day	EPA 405.1	81936	1	ND		mg/L		6.00	02/03	02/03 11:45 SMS2 (1)	
Chemical Oxygen Dema	EPA 410.4	81965	1	21.0		mg/L	2.51	5.00	02/05	02/05 13:20 MHM (1)	
Chloride	EPA 325.3	82033	1	146.		mg/L		1.00	02/06	02/06 14:35 LJL (1)	
Nitrate-Nitrite (as N)	EPA 353.2	82010	20	23.4	D1	mg/L	1.29	2.00	02/06	02/06 15:20 MHM (1)	
Nitrogen, Ammonia	EPA 350.1	82089	1	ND		mg/L		0.100	02/14	02/14 13:35 TAE (1)	
pH	EPA 150.1	81941	1	7.60		Std. Units			02/03	02/03 15:20 SMS2 (1)	
Phosphorus	EPA 365.4	82049	1	0.207		mg/L	0.0929	0.100	02/07	02/07 15:30 MHM (1)	
Sulfate	EPA 375.4	81969	1	ND		mg/L	0.465	1.00	02/05	02/05 12:23 MHM (1)	
Total Dissolved Solids	EPA 160.1	81954	1	745.		mg/L		10.0	02/05	02/05 16:00 LJL (1)	
Total Suspended Solids	EPA 160.2	81951	1	9.00		mg/L		4.00	02/05	02/05 13:30 LJL (1)	

10 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Client ID: SW-11 **Client:** Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.0001.00014 **Site:** None

Lab ID: 20499517 **Project No.:** 2066467

Description: None **Matrix:** Water **%Moisture:** n/a

Collected: 02/01/07 **Received:** 02/02/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
BOD, 5 day	EPA 405.1	81936	1	ND		mg/L		6.00	02/03	02/03 11:45 SMS2 (1)	
Chemical Oxygen Dema	EPA 410.4	81965	1	17.0		mg/L	2.51	5.00	02/05	02/05 13:20 MHM (1)	
Chloride	EPA 325.3	82034	1	23.0		mg/L		1.00	02/06	02/06 15:55 LJL (1)	
Nitrate-Nitrite (as N)	EPA 353.2	82010	100	66.0	D1	mg/L	6.46	10.0	02/06	02/06 17:50 MHM (1)	
Nitrogen, Ammonia	EPA 350.1	82089	1	0.143		mg/L		0.100	02/14	02/14 13:46 TAE (1)	
pH	EPA 150.1	81941	1	6.58		Std. Units			02/03	02/03 15:20 SMS2 (1)	
Phosphorus	EPA 365.4	82049	1	0.255		mg/L	0.0929	0.100	02/07	02/07 15:31 MHM (1)	
Sulfate	EPA 375.4	81969	5	40.6	D1	mg/L	2.32	5.00	02/05	02/05 12:34 MHM (1)	
Total Dissolved Solids	EPA 160.1	81954	1	700.		mg/L		10.0	02/05	02/05 16:00 LJL (1)	
Total Suspended Solids	EPA 160.2	81951	1	45.0		mg/L		4.00	02/05	02/05 13:30 LJL (1)	

10 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Client ID: SW-13
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001.00014
Site: None
Lab ID: 20499518
Project No.: 2066467
Description: None
Matrix: Water
%Moisture: n/a
Collected: 02/01/07
Received: 02/02/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
BOD, 5 day	EPA 405.1	81936	1	ND		mg/L		6.00	02/03	02/03 11:45 SMS2 (1)	
Chemical Oxygen Dema	EPA 410.4	81973	1	36.0		mg/L	2.51	5.00	02/05	02/05 13:35 MHM (1)	
Chloride	EPA 325.3	82034	1	19.7		mg/L		1.00	02/06	02/06 15:55 LJL (1)	
Nitrate-Nitrite (as N)	EPA 353.2	82010	500	255.	D1	mg/L	32.3	50.0	02/06	02/06 17:51 MHM (1)	
Nitrogen, Ammonia	EPA 350.1	82089	100	49.8	D1	mg/L		10.0	02/14	02/14 13:46 TAE (1)	
pH	EPA 150.1	81941	1	6.97		Std. Units			02/03	02/03 15:20 SMS2 (1)	
Phosphorus	EPA 365.4	82049	1	0.514		mg/L	0.0929	0.100	02/07	02/07 15:32 MHM (1)	
Sulfate	EPA 375.4	81969	1	2.20		mg/L	0.465	1.00	02/05	02/05 12:25 MHM (1)	
Total Dissolved Solids	EPA 160.1	81955	1	1160		mg/L		10.0	02/02	01/05 16:15 LJL (1)	
Total Suspended Solids	EPA 160.2	81951	1	5.00		mg/L		4.00	02/05	02/05 13:30 LJL (1)	

10 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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LELAP # 02006

Client ID: SW-09 **Client:** Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.0001.00014 **Site:** None

Lab ID: 20499519 **Project No.:** 2066467

Description: None **Matrix:** Water **%Moisture:** n/a

Collected: 02/01/07 **Received:** 02/02/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
BOD, 5 day	EPA 405.1	81936	1	ND		mg/L		6.00	02/03	02/03 11:45 SMS2 (1)	
Chemical Oxygen Dema	EPA 410.4	81973	1	37.0		mg/L	2.51	5.00	02/05	02/05 13:35 MHM (1)	
Chloride	EPA 325.3	82034	1	18.1		mg/L		1.00	02/06	02/06 15:55 LJL (1)	
Nitrate-Nitrite (as N)	EPA 353.2	82010	1	0.910		mg/L	0.0646	0.100	02/06	02/06 17:52 MHM (1)	
Nitrogen, Ammonia	EPA 350.1	82089	1	0.136		mg/L		0.100	02/14	02/14 13:46 TAE (1)	
pH	EPA 150.1	81941	1	7.19		Std. Units			02/03	02/03 15:20 SMS2 (1)	
Phosphorus	EPA 365.4	82049	1	0.509		mg/L	0.0929	0.100	02/07	02/07 15:33 MHM (1)	
Sulfate	EPA 375.4	81969	1	3.84		mg/L	0.465	1.00	02/05	02/05 12:25 MHM (1)	
Total Dissolved Solids	EPA 160.1	81955	1	80.0		mg/L		10.0	02/02	01/05 16:15 LJL (1)	
Total Suspended Solids	EPA 160.2	81951	1	37.0		mg/L		4.00	02/05	02/05 13:30 LJL (1)	

10 parameter(s) reported

3/1/2007 13:19:07

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Phone: 504.469.0333
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LELAP # 02006

Client ID: SW-14 **Client:** Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.0001.00014 **Site:** None

Lab ID: 20499520 **Project No.:** 2066467

Description: None **Matrix:** Water **%Moisture:** n/a

Collected: 02/01/07 **Received:** 02/02/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
BOD, 5 day	EPA 405.1	81936	1	ND		mg/L		6.00	02/03	02/03 11:45 SMS2 (1)	
Chemical Oxygen Dema	EPA 410.4	81973	1	6.00		mg/L	2.51	5.00	02/05	02/05 13:35 MHM (1)	
Chloride	EPA 325.3	82034	1	26.3		mg/L		1.00	02/06	02/06 15:55 LJL (1)	
Nitrate-Nitrite (as N)	EPA 353.2	82010	1	ND		mg/L	0.0646	0.100	02/06	02/06 17:53 MHM (1)	
Nitrogen, Ammonia	EPA 350.1	82089	1	0.102		mg/L		0.100	02/14	02/14 13:46 TAE (1)	
pH	EPA 150.1	81941	1	8.47		Std. Units			02/03	02/03 15:20 SMS2 (1)	
Phosphorus	EPA 365.4	82049	1	ND		mg/L	0.0929	0.100	02/07	02/07 15:34 MHM (1)	
Sulfate	EPA 375.4	81969	1	ND		mg/L	0.465	1.00	02/05	02/05 12:25 MHM (1)	
Total Dissolved Solids	EPA 160.1	81955	1	170.		mg/L		10.0	02/02	01/05 16:15 LJL (1)	
Total Suspended Solids	EPA 160.2	81951	1	4.00		mg/L		4.00	02/05	02/05 13:30 LJL (1)	

10 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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LELAP # 02006

Client ID: SW-12 **Client:** Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.0001.00014 **Site:** None

Lab ID: 20499521 **Project No.:** 2066467

Description: None **Matrix:** Water **%Moisture:** n/a

Collected: 02/01/07 **Received:** 02/02/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
BOD, 5 day	EPA 405.1	81936	1	ND		mg/L		6.00	02/03	02/03 11:45 SMS2 (1)	
Chemical Oxygen Dema	EPA 410.4	81973	1	71.0		mg/L	2.51	5.00	02/05	02/05 13:35 MHM (1)	
Chloride	EPA 325.3	82034	1	16.4		mg/L		1.00	02/06	02/06 15:55 LJL (1)	
Nitrate-Nitrite (as N)	EPA 353.2	82010	1	ND		mg/L	0.0646	0.100	02/06	02/06 17:54 MHM (1)	
Nitrogen, Ammonia	EPA 350.1	82089	1	0.207		mg/L		0.100	02/14	02/14 13:46 TAE (1)	
pH	EPA 150.1	81941	1	7.76		Std. Units			02/03	02/03 15:20 SMS2 (1)	
Phosphorus	EPA 365.4	82049	1	3.71		mg/L	0.0929	0.100	02/07	02/07 15:35 MHM (1)	
Sulfate	EPA 375.4	81969	1	ND		mg/L	0.465	1.00	02/05	02/05 12:25 MHM (1)	
Total Dissolved Solids	EPA 160.1	81955	1	125.		mg/L		10.0	02/02	01/05 16:15 LJL (1)	
Total Suspended Solids	EPA 160.2	81951	1	224.		mg/L		4.00	02/05	02/05 13:30 LJL (1)	

10 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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LELAP # 02006

Client ID: SW-NORTH SUMP(020207)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001.00014
Site: None
Lab ID: 20499680
Project No.: 2066467
Description: None
Matrix: Water
%Moisture: n/a
Collected: 02/02/07
Received: 02/02/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
BOD, 5 day	EPA 405.1	81937	1	ND		mg/L		6.00	02/03	02/03 14:00 LJL (1)	
Chemical Oxygen Dema	EPA 410.4	81973	1	66.0		mg/L	2.51	5.00	02/05	02/05 13:35 MHM (1)	
Chloride	EPA 325.3	82034	1	19.7		mg/L		1.00	02/06	02/06 15:55 LJL (1)	
Nitrate-Nitrite (as N)	EPA 353.2	82011	1	ND		mg/L	0.0646	0.100	02/06	02/06 17:56 MHM (1)	
Nitrogen, Ammonia	EPA 350.1	82089	1	ND		mg/L		0.100	02/14	02/14 13:46 TAE (1)	
pH	EPA 150.1	81941	1	8.02		Std. Units			02/03	02/03 15:20 SMS2 (1)	
Phosphorus	EPA 365.4	82049	1	1.47		mg/L	0.0929	0.100	02/07	02/07 16:18 MHM (1)	
Sulfate	EPA 375.4	81969	1	1.00		mg/L	0.465	1.00	02/05	02/05 12:25 MHM (1)	
Total Dissolved Solids	EPA 160.1	81955	1	240.		mg/L		10.0	02/02	01/05 16:15 LJL (1)	
Total Suspended Solids	EPA 160.2	81951	1	34.0		mg/L		4.00	02/05	02/05 13:30 LJL (1)	

10 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Client ID: SW-NORTH POND(020207)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001.00014
Site: None
Lab ID: 20499681
Project No.: 2066467
Description: None
Matrix: Water
%Moisture: n/a
Collected: 02/02/07
Received: 02/02/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
BOD, 5 day	EPA 405.1	81937	1	ND		mg/L		6.00	02/03	02/03 14:00 LJL (1)	
Chemical Oxygen Dema	EPA 410.4	81973	1	17.0		mg/L	2.51	5.00	02/05	02/05 13:35 MHM (1)	
Chloride	EPA 325.3	82034	1	18.1		mg/L		1.00	02/06	02/06 15:55 LJL (1)	
Nitrate-Nitrite (as N)	EPA 353.2	82011	1	ND		mg/L	0.0646	0.100	02/06	02/06 18:03 MHM (1)	
Nitrogen, Ammonia	EPA 350.1	82092	1	ND		mg/L		0.100	02/14	02/14 13:46 TAE (1)	
pH	EPA 150.1	81941	1	9.27		Std. Units			02/03	02/03 15:20 SMS2 (1)	
Phosphorus	EPA 365.4	82049	1	0.117		mg/L	0.0929	0.100	02/07	02/07 16:19 MHM (1)	
Sulfate	EPA 375.4	81969	1	ND		mg/L	0.465	1.00	02/05	02/05 12:25 MHM (1)	
Total Dissolved Solids	EPA 160.1	81955	1	120.		mg/L		10.0	02/02	01/05 16:15 LJL (1)	
Total Suspended Solids	EPA 160.2	81951	1	ND		mg/L		4.00	02/05	02/05 13:30 LJL (1)	

10 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/1/2007 13:19:08

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: SW-POND A (020207)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001.00014
Site: None
Lab ID: 20499682
Project No.: 2066467
Description: None
Matrix: Water
%Moisture: n/a
Collected: 02/02/07
Received: 02/02/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
BOD, 5 day	EPA 405.1	81937	1	ND		mg/L		6.00	02/03	02/03 14:00 LJL (1)	
Chemical Oxygen Dema	EPA 410.4	81973	1	24.0		mg/L	2.51	5.00	02/05	02/05 13:35 MHM (1)	
Chloride	EPA 325.3	82034	1	18.1		mg/L		1.00	02/06	02/06 15:55 LJL (1)	
Nitrate-Nitrite (as N)	EPA 353.2	82011	20	17.0	D1	mg/L	1.29	2.00	02/06	02/06 15:36 MHM (1)	
Nitrogen, Ammonia	EPA 350.1	82092	5	0.937	D1	mg/L		0.500	02/14	02/14 13:57 TAE (1)	
pH	EPA 150.1	81941	1	7.88		Std. Units			02/03	02/03 15:20 SMS2 (1)	
Phosphorus	EPA 365.4	82049	1	2.01		mg/L	0.0929	0.100	02/07	02/07 16:20 MHM (1)	
Sulfate	EPA 375.4	81972	1	ND		mg/L	0.465	1.00	02/05	02/05 12:25 MHM (1)	
Total Dissolved Solids	EPA 160.1	81955	1	325.		mg/L		10.0	02/02	01/05 16:15 LJL (1)	
Total Suspended Solids	EPA 160.2	81951	1	5.00		mg/L		4.00	02/05	02/05 13:30 LJL (1)	

10 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/1/2007 13:19:08

New Orleans Laboratory Certifications
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Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health .Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: SW-DISCHARGE POND A (020207)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001.00014
Site: None
Lab ID: 20499683
Project No.: 2066467
Description: None
Matrix: Water
%Moisture: n/a
Collected: 02/02/07
Received: 02/02/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
BOD, 5 day	EPA 405.1	81937	1	ND		mg/L		6.00	02/03	02/03 14:00	LJL (1)	
Chemical Oxygen Dema	EPA 410.4	81973	1	19.0		mg/L	2.51	5.00	02/05	02/05 13:35	MHM (1)	
Chloride	EPA 325.3	82034	1	23.0		mg/L		1.00	02/06	02/06 15:55	LJL (1)	
Nitrate-Nitrite (as N)	EPA 353.2	82011	20	16.3	D1	mg/L	1.29	2.00	02/06	02/06 15:37	MHM (1)	
Nitrogen, Ammonia	EPA 350.1	82092	5	1.92	D1	mg/L		0.500	02/14	02/14 13:57	TAE (1)	
pH	EPA 150.1	81942	1	7.40		Std. Units			02/03	02/03 15:20	SMS2 (1)	
Phosphorus	EPA 365.4	82050	1	1.76		mg/L	0.0929	0.100	02/07	02/07 16:24	MHM (1)	
Sulfate	EPA 375.4	81972	1	ND		mg/L	0.465	1.00	02/05	02/05 12:27	MHM (1)	
Total Dissolved Solids	EPA 160.1	81955	1	245.		mg/L		10.0	02/02	01/05 16:15	LJL (1)	
Total Suspended Solids	EPA 160.2	81952	1	5.00		mg/L		4.00	02/05	02/05 13:30	LJL (1)	

10 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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New Orleans Laboratory Certifications
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Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: SW-POND C (020207))
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001.00014
Site: None
Lab ID: 20499684
Project No.: 2066467
Description: None
Matrix: Water
%Moisture: n/a
Collected: 02/02/07
Received: 02/02/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
BOD, 5 day	EPA 405.1	81937	1	ND		mg/L		6.00	02/03	02/03 14:00	LJL (1)	
Chemical Oxygen Dema	EPA 410.4	81973	1	29.0		mg/L	2.51	5.00	02/05	02/05 13:35	MHM (1)	
Chloride	EPA 325.3	82034	1	23.0		mg/L		1.00	02/06	02/06 15:55	LJL (1)	
Nitrate-Nitrite (as N)	EPA 353.2	82011	20	30.1	D1	mg/L	1.29	2.00	02/06	02/06 15:38	MHM (1)	
Nitrogen, Ammonia	EPA 350.1	82092	5	6.14	D1	mg/L		0.500	02/14	02/14 13:57	TAE (1)	
pH	EPA 150.1	81942	1	7.29		Std. Units			02/03	02/03 15:20	SMS2 (1)	
Phosphorus	EPA 365.4	82050	1	2.06		mg/L	0.0929	0.100	02/07	02/07 16:28	MHM (1)	
Sulfate	EPA 375.4	81972	1	ND		mg/L	0.465	1.00	02/05	02/05 12:27	MHM (1)	
Total Dissolved Solids	EPA 160.1	81955	1	370.		mg/L		10.0	02/02	01/05 16:15	LJL (1)	
Total Suspended Solids	EPA 160.2	81952	1	5.00		mg/L		4.00	02/05	02/05 13:30	LJL (1)	

10 parameter(s) reported

3/1/2007 13:19:08

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health .Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: SW-POND B (020207))
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001.00014
Site: None
Lab ID: 20499685
Project No.: 2066467
Description: None
Matrix: Water
%Moisture: n/a
Collected: 02/02/07
Received: 02/02/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
BOD, 5 day	EPA 405.1	81937	1	ND		mg/L		6.00	02/03	02/03 14:00 LJL (1)	
Chemical Oxygen Dema	EPA 410.4	81973	1	31.0		mg/L	2.51	5.00	02/05	02/05 13:35 MHM (1)	
Chloride	EPA 325.3	82034	1	19.7		mg/L		1.00	02/06	02/06 15:55 LJL (1)	
Nitrate-Nitrite (as N)	EPA 353.2	82011	20	15.8	D1	mg/L	1.29	2.00	02/06	02/06 15:42 MHM (1)	
Nitrogen, Ammonia	EPA 350.1	82092	5	2.18	D1	mg/L		0.500	02/14	02/14 13:57 TAE (1)	
pH	EPA 150.1	81942	1	7.73		Std. Units			02/03	02/03 15:20 SMS2 (1)	
Phosphorus	EPA 365.4	82050	1	2.20		mg/L	0.0929	0.100	02/07	02/07 16:31 MHM (1)	
Sulfate	EPA 375.4	81972	1	ND		mg/L	0.465	1.00	02/05	02/05 12:27 MHM (1)	
Total Dissolved Solids	EPA 160.1	81955	1	215.		mg/L		10.0	02/02	01/05 16:15 LJL (1)	
Total Suspended Solids	EPA 160.2	81952	1	4.00		mg/L		4.00	02/05	02/05 13:30 LJL (1)	

10 parameter(s) reported

3/1/2007 13:19:08

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Kansas Dept. of Health Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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New Orleans Laboratory

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: SW-DUP-02 (020207)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001.00014
Site: None
Lab ID: 20499686
Project No.: 2066467
Description: None
Matrix: Water
%Moisture: n/a
Collected: 02/02/07
Received: 02/02/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
BOD, 5 day	EPA 405.1	81937	1	ND		mg/L		6.00	02/03	02/03 14:00 LJL (1)	
Chemical Oxygen Dema	EPA 410.4	81973	1	25.0		mg/L	2.51	5.00	02/05	02/05 13:35 MHM (1)	
Chloride	EPA 325.3	82034	1	28.0		mg/L		1.00	02/06	02/06 15:55 LJL (1)	
Nitrate-Nitrite (as N)	EPA 353.2	82011	20	16.8	D1	mg/L	1.29	2.00	02/06	02/06 15:43 MHM (1)	
Nitrogen, Ammonia	EPA 350.1	82092	5	3.41	D1	mg/L		0.500	02/14	02/14 13:57 TAE (1)	
pH	EPA 150.1	81942	1	7.71		Std. Units			02/03	02/03 15:20 SMS2 (1)	
Phosphorus	EPA 365.4	82050	1	1.73		mg/L	0.0929	0.100	02/07	02/07 16:32 MHM (1)	
Sulfate	EPA 375.4	81972	1	ND		mg/L	0.465	1.00	02/05	02/05 12:27 MHM (1)	
Total Dissolved Solids	EPA 160.1	81955	1	245.		mg/L		10.0	02/02	01/05 16:15 LJL (1)	
Total Suspended Solids	EPA 160.2	81952	1	9.00		mg/L		4.00	02/05	02/05 13:30 LJL (1)	

10 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
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3/1/2007 13:19:08

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Report of Quality Control

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Method: EPA 8260 **Project:** 2066467 **LCS:** 20499735 2/4/2007 8:25:00 PM

Batch: 81944 **MS:** 20499736 2/4/2007 9:10:00 PM

Units: ug/L **Original for MS:** 20499710 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Acetone	50	58.6		117			50		69.25	70.72				22 - 165	11 - 171	20	A11
Acetonitrile	550	535.1		97			550		592.4	624.4				15 - 171	10 - 182	20	
Acrolein	100	83.12		83			100		88.87	89.52				10 - 150	10 - 150	20	
Acrylonitrile	150	124.5		83			150		137.9	139.1				10 - 150	10 - 150	20	
Allyl chloride	100	76.31		76			100		76.76	79.74				30 - 155	34 - 153	20	
Benzene	50	41.54		83			50		41.55	41.28				70 - 135	60 - 144	20	
Bromodichloromethane	50	48.52		97			50		49.96	50.31				61 - 156	59 - 156	20	
Bromoform	50	60.22		120			50		61.51	63.26				56 - 154	50 - 153	20	
Bromomethane	50	32.83		66			50		34.48	33.99				44 - 158	37 - 165	20	
2-Butanone (MEK)	50	50.84		102			50		57.4	59.22				32 - 157	20 - 168	20	A11
Carbon disulfide	50	33.11		66			50		33.66	34.39				40 - 147	36 - 152	20	
Carbon tetrachloride	50	45.11		90			50		45.86	45.55				50 - 166	44 - 170	20	
Chlorobenzene	50	51.78		104			50		51.15	51.93				73 - 129	67 - 134	20	
Chloroethane	50	31.87		64			50		32.6	33.9				38 - 163	34 - 170	20	
Chloroform	50	48.24		97			50		49.31	49.51				71 - 133	64 - 140	20	
Chloromethane	50	22.54		45			50		24.11	24.97				32 - 149	22 - 163	20	
Chloroprene	50	41.63		83			50		41.42	43.2				50 - 141	51 - 134	20	
1,2-Dibromo-3-chloropropa	50	64.95		130			50		66.1	72.94				34 - 145	28 - 150	20	
Dibromochloromethane	50	58.43		117			50		59.09	60.43				63 - 147	58 - 147	20	
1,2-Dibromoethane (EDB)	50	61.86		124			50		66.93	66.79				60 - 147	55 - 149	20	
Dibromomethane	50	53.37		107			50		56.59	57.01				60 - 147	56 - 148	20	
trans-1,4-Dichloro-2-butene	100	118.6		119			100		120.8	126.1				17 - 178	21 - 164	20	
1,1-Dichloroethane	50	40.92		82			50		41.56	42.24				64 - 135	59 - 142	20	
1,2-Dichloroethane	50	53.17		106			50		55.53	54.56				53 - 164	51 - 161	20	
1,1-Dichloroethene	50	41.11		82			50		41.24	42.61				51 - 143	44 - 152	20	
trans-1,2-Dichloroethene	50	41.15		82			50		43.15	44.34				59 - 139	56 - 145	20	
1,2-Dichloropropane	50	42.43		85			50		44.61	43.89				69 - 135	66 - 138	20	
cis-1,3-Dichloropropene	50	49.59		99			50		50.57	50.58				66 - 141	58 - 142	20	
trans-1,3-Dichloropropene	50	52.49		105			50		55.73	54.48				57 - 150	50 - 151	20	
1,4-Dioxane (p-Dioxane)	1050	1392		133			1050		1563	1677				17 - 176	19 - 172	20	
Ethylbenzene	50	45.89		92			50		45.5	46.53				67 - 132	58 - 138	20	
Ethyl methacrylate	100	111		111			100		121	123.2				57 - 143	45 - 170	20	
2-Hexanone	50	58.95		118			50		62.9	65.53				36 - 154	25 - 163	20	
Iodomethane	50	45.29		91			50		46.28	46.6				43 - 159	36 - 160	20	
Isobutanol	1050	951.7		91			1050		1104	1196				32 - 160	26 - 169	20	
Methacrylonitrile	550	579		105			550		629.6	646.6				10 - 171	10 - 167	20	
Methylene chloride	50	58.84		118			50		59.68	61.14				29 - 159	19 - 158	20	A11
Methyl methacrylate	100	115.4		115			100		122.6	129.3				52 - 167	11 - 212	20	
4-Methyl-2-pentanone (MI	50	61.33		123			50		59.84	66.44				13 - 162	10 - 157	20	

3/1/2007 13:19:11

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
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Report of Quality Control

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Method: EPA 8260 **Project:** 2066467 **LCS:** 20499735 2/4/2007 8:25:00 PM

Batch: 81944 **MS:** 20499736 2/4/2007 9:10:00 PM

Units: ug/L **Original for MS:** 20499710 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Propionitrile	550	599.5		109			550		646.7	698.4				23 - 159	25 - 158	20	
Styrene	50	55.46		111			50		54.72	56.19				71 - 134	54 - 144	20	
1,1,1,2-Tetrachloroethane	50	55.94		112			50		55.3	56.84				73 - 146	65 - 150	20	
1,1,2,2-Tetrachloroethane	50	65.24		130			50		65.7	66.85				50 - 142	46 - 145	20	
Tetrachloroethene	50	45.63		91			50		43.77	45.85				42 - 156	39 - 151	20	
Toluene	50	43.92		88			50		44.17	44.15				72 - 132	64 - 139	20	
1,1,1-Trichloroethane	50	41.64		83			50		43.06	43.49				65 - 136	59 - 141	20	
1,1,2-Trichloroethane	50	55.05		110			50		58.14	56.57				67 - 144	60 - 146	20	
Trichloroethene	50	46.59		93			50		47.58	47.16				69 - 136	61 - 141	20	
Trichlorofluoromethane	50	36.47		73			50		37.49	38.07				42 - 161	38 - 160	20	
1,2,3-Trichloropropane	50	70.58		141			50		73.34	73.72				52 - 152	51 - 151	20	
1,2,4-Trimethylbenzene	50	50.88		102			50		50.42	49.89				59 - 137	41 - 155	20	
1,3,5-Trimethylbenzene	50	48.2		96			50		47.51	47.13				69 - 135	55 - 150	20	
Vinyl acetate	50	121.3		243 *			50		110.6	115.7				21 - 190	10 - 185	20	
Vinyl chloride	50	24.5		49			50		25.35	26.6				40 - 146	28 - 161	20	
m&p-Xylene	100	97.25		97			100		93.49	96.88				70 - 129	66 - 132	20	
o-Xylene	50	49.93		100			50		47.92	50.54				70 - 129	66 - 132	20	

56 compound(s) reported

*** denotes recovery outside of QC limits.**
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Pace Analytical Services, Inc.
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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Method: EPA 8260 **Project:** 2066467 **LCS:** 20499988 2/6/2007 11:05:00 AM

Batch: 81944 **MS:**

Units: ug/L **Original for MS:**

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Acetone	50	99.6		199 *										22 - 165	-		A11
Acetonitrile	550	569.1		103										15 - 171	-		
Acrolein	100	77.63		78										10 - 150	-		
Acrylonitrile	150	124.8		83										10 - 150	-		
Allyl chloride	100	87.15		87										30 - 155	-		
Benzene	50	43.96		88										70 - 135	-		
Bromodichloromethane	50	48.81		98										61 - 156	-		
Bromoform	50	58.09		116										56 - 154	-		
Bromomethane	50	37.15		74										44 - 158	-		
2-Butanone (MEK)	50	55.97		112										32 - 157	-		A11
Carbon disulfide	50	38.24		77										40 - 147	-		
Carbon tetrachloride	50	52.15		104										50 - 166	-		
Chlorobenzene	50	52.45		105										73 - 129	-		
Chloroethane	50	38.38		77										38 - 163	-		
Chloroform	50	51.22		102										71 - 133	-		
Chloromethane	50	27.59		55										32 - 149	-		
Chloroprene	50	49.67		99										50 - 141	-		
1,2-Dibromo-3-chloropropa	50	65.46		131										34 - 145	-		
Dibromochloromethane	50	57.05		114										63 - 147	-		
1,2-Dibromoethane (EDB)	50	60.32		121										60 - 147	-		
Dibromomethane	50	52.59		105										60 - 147	-		
trans-1,4-Dichloro-2-butene	100	123.8		124										17 - 178	-		
1,1-Dichloroethane	50	44.77		90										64 - 135	-		
1,2-Dichloroethane	50	52.8		106										53 - 164	-		
1,1-Dichloroethene	50	47.87		96										51 - 143	-		
trans-1,2-Dichloroethene	50	48.05		96										59 - 139	-		
1,2-Dichloropropane	50	42.86		86										69 - 135	-		
cis-1,3-Dichloropropene	50	51.37		103										66 - 141	-		
trans-1,3-Dichloropropene	50	53.23		106										57 - 150	-		
1,4-Dioxane (p-Dioxane)	1050	1301		124										17 - 176	-		
Ethylbenzene	50	49.38		99										67 - 132	-		
Ethyl methacrylate	100	112.1		112										57 - 143	-		
2-Hexanone	50	61.23		122										36 - 154	-		
Iodomethane	50	47.97		96										43 - 159	-		
Isobutanol	1050	1059		101										32 - 160	-		
Methacrylonitrile	550	579.4		105										10 - 171	-		
Methylene chloride	50	132		264 *										29 - 159	-		A11
Methyl methacrylate	100	111.7		112										52 - 167	-		
4-Methyl-2-pentanone (MI	50	57.29		115										13 - 162	-		

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* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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LELAP # 02006

Method: EPA 8260 **Project:** 2066467 **LCS:** 20499988 2/6/2007 11:05:00 AM

Batch: 81944 **MS:**

Units: ug/L **Original for MS:**

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Propionitrile	550	578		105										23 - 159	-		
Styrene	50	56.53		113										71 - 134	-		
1,1,1,2-Tetrachloroethane	50	56.86		114										73 - 146	-		
1,1,2,2-Tetrachloroethane	50	62.7		125										50 - 142	-		
Tetrachloroethene	50	52.6		105										42 - 156	-		
Toluene	50	47.13		94										72 - 132	-		
1,1,1-Trichloroethane	50	49.78		100										65 - 136	-		
1,1,2-Trichloroethane	50	53.21		106										67 - 144	-		
Trichloroethene	50	51.86		104										69 - 136	-		
Trichlorofluoromethane	50	47.08		94										42 - 161	-		
1,2,3-Trichloropropane	50	71.69		143										52 - 152	-		
1,2,4-Trimethylbenzene	50	54.51		109										59 - 137	-		
1,3,5-Trimethylbenzene	50	51.96		104										69 - 135	-		
Vinyl acetate	50	118.4		237 *										21 - 190	-		
Vinyl chloride	50	31.34		63										40 - 146	-		
m&p-Xylene	100	102.9		103										70 - 129	-		
o-Xylene	50	51.62		103										70 - 129	-		

56 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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LELAP # 02006

Method: EPA 8260 **Project:** 2066467 **LCS:** 20499946 2/6/2007 4:19:00 PM

Batch: 81996 **MS:** 20499947 2/6/2007 5:04:00 PM

Units: ug/L **Original for MS:** 20499517 Client Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Acetone	50	118.1		236 *			50	23.28	81.42	88.89	116	131	9	22 - 165	11 - 171	20	A11
Acetonitrile	550	560.8		102			550	0.00	632.1	695.6	115	127	10	15 - 171	10 - 182	20	
Acrolein	100	77.04		77			100	0.00	92.03	87.18	92	87	5	10 - 150	10 - 150	20	
Acrylonitrile	150	128.6		86			150	0.00	139.1	146	93	97	5	10 - 150	10 - 150	20	
Allyl chloride	100	78.12		78			100	0.00	79.53	83.1	80	83	4	30 - 155	34 - 153	20	
Benzene	50	42.49		85			50	0.00	41.89	43.35	84	87	3	70 - 135	60 - 144	20	
Bromodichloromethane	50	47.86		96			50	0.00	49.8	51.07	100	102	3	61 - 156	59 - 156	20	
Bromoform	50	57.75		116			50	0.00	58.9	60.95	118	122	3	56 - 154	50 - 153	20	
Bromomethane	50	37.92		76			50	0.00	37.63	38.9	75	78	3	44 - 158	37 - 165	20	
2-Butanone (MEK)	50	48.73		98			50	0.00	60.11	61.2	120	122	2	32 - 157	20 - 168	20	A11
Carbon disulfide	50	33.84		68			50	0.00	33.88	35.79	68	72	5	40 - 147	36 - 152	20	
Carbon tetrachloride	50	46.53		93			50	0.00	43.88	45.66	88	91	4	50 - 166	44 - 170	20	
Chlorobenzene	50	51.9		104			50	0.00	50.98	52.26	102	105	2	73 - 129	67 - 134	20	
Chloroethane	50	35.29		71			50	0.00	36.74	37.96	74	76	3	38 - 163	34 - 170	20	
Chloroform	50	49.38		99			50	0.00	51.51	52.18	103	104	1	71 - 133	64 - 140	20	
Chloromethane	50	27.18		54			50	0.00	26.86	28.89	54	58	7	32 - 149	22 - 163	20	
Chloroprene	50	42.69		85			50	0.00	40.54	41.03	81	82	1	50 - 141	51 - 134	20	
1,2-Dibromo-3-chloropropa	50	63.32		127			50	0.00	63.06	66.11	126	132	5	34 - 145	28 - 150	20	
Dibromochloromethane	50	56.96		114			50	0.00	58.87	60.17	118	120	2	63 - 147	58 - 147	20	
1,2-Dibromoethane (EDB)	50	62.78		126			50	0.00	66.64	68.2	133	136	2	60 - 147	55 - 149	20	
Dibromomethane	50	55.24		110			50	0.00	56.77	59.8	114	120	5	60 - 147	56 - 148	20	
trans-1,4-Dichloro-2-butene	100	118.6		119			100	0.00	120.6	129	121	129	7	17 - 178	21 - 164	20	
1,1-Dichloroethane	50	42.2		84			50	0.00	42.5	43.82	85	88	3	64 - 135	59 - 142	20	
1,2-Dichloroethane	50	52.87		106			50	0.00	54.8	56.71	110	113	3	53 - 164	51 - 161	20	
1,1-Dichloroethene	50	42.86		86			50	0.00	42.96	43.66	86	87	2	51 - 143	44 - 152	20	
trans-1,2-Dichloroethene	50	44.48		89			50	0.00	44.09	45.4	88	91	3	59 - 139	56 - 145	20	
1,2-Dichloropropane	50	42.98		86			50	0.00	44.12	45.56	88	91	3	69 - 135	66 - 138	20	
cis-1,3-Dichloropropene	50	50.83		102			50	0.00	51.2	53.45	102	107	4	66 - 141	58 - 142	20	
trans-1,3-Dichloropropene	50	53.22		106			50	0.00	55.68	57.28	111	115	3	57 - 150	50 - 151	20	
1,4-Dioxane (p-Dioxane)	1050	1353		129			1050	0.00	1577	1639	150	156	4	17 - 176	19 - 172	20	
Ethylbenzene	50	46.98		94			50	0.00	45.78	47.16	92	94	3	67 - 132	58 - 138	20	
Ethyl methacrylate	100	114.1		114			100	0.00	119.7	129.2	120	129	8	57 - 143	45 - 170	20	
2-Hexanone	50	59.54		119			50	0.00	64.75	68.4	130	137	5	36 - 154	25 - 163	20	
Iodomethane	50	46.36		93			50	0.00	47.38	48.64	95	97	3	43 - 159	36 - 160	20	
Isobutanol	1050	1017		97			1050	0.00	1134	1268	108	121	11	32 - 160	26 - 169	20	
Methacrylonitrile	550	588.9		107			550	0.00	646.2	702.6	118	128	8	10 - 171	10 - 167	20	
Methylene chloride	50	113.4		227 *			50	32.29	113.9	119.6	163 *	175 *	5	29 - 159	19 - 158	20	A11
Methyl methacrylate	100	114.5		115			100	0.00	123.9	133.8	124	134	8	52 - 167	11 - 212	20	
4-Methyl-2-pentanone (MI	50	56.48		113			50	0.00	63.08	67.95	126	136	7	13 - 162	10 - 157	20	

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* denotes recovery outside of QC limits.
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(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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LELAP # 02006

Method: EPA 8260 **Project:** 2066467 **LCS:** 20499946 2/6/2007 4:19:00 PM

Batch: 81996 **MS:** 20499947 2/6/2007 5:04:00 PM

Units: ug/L **Original for MS:** 20499517 Client Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Propionitrile	550	617.8		112			550	0.00	689.3	714.3	125	130	4	23 - 159	25 - 158	20	
Styrene	50	56.64		113			50	0.00	42.77	41.89	86	84	2	71 - 134	54 - 144	20	
1,1,1,2-Tetrachloroethane	50	55		110			50	0.00	54.89	56.39	110	113	3	73 - 146	65 - 150	20	
1,1,2,2-Tetrachloroethane	50	63.6		127			50	0.00	64.62	70.45	129	141	9	50 - 142	46 - 145	20	
Tetrachloroethene	50	47.4		95			50	0.00	44.11	44.86	88	90	2	42 - 156	39 - 151	20	
Toluene	50	45.66		91			50	0.00	44.71	45.98	89	92	3	72 - 132	64 - 139	20	
1,1,1-Trichloroethane	50	44.26		89			50	0.00	43.14	44.92	86	90	4	65 - 136	59 - 141	20	
1,1,2-Trichloroethane	50	55.1		110			50	0.00	58	60	116	120	3	67 - 144	60 - 146	20	
Trichloroethene	50	48.1		96			50	0.00	46.68	47.97	93	96	3	69 - 136	61 - 141	20	
Trichlorofluoromethane	50	39.23		79			50	0.00	40.35	41.72	81	83	3	42 - 161	38 - 160	20	
1,2,3-Trichloropropane	50	71.31		143			50	0.00	71.75	79.73	144	160 *	11	52 - 152	51 - 151	20	
1,2,4-Trimethylbenzene	50	52.73		105			50	0.00	50.37	52.88	101	106	5	59 - 137	41 - 155	20	
1,3,5-Trimethylbenzene	50	50.59		101			50	0.00	46.58	49.02	93	98	5	69 - 135	55 - 150	20	
Vinyl acetate	50	116.5		233 *			50	0.00	113.7	121.6	227 *	243 *	7	21 - 190	10 - 185	20	
Vinyl chloride	50	28.66		57			50	0.00	28.72	30.46	57	61	6	40 - 146	28 - 161	20	
m&p-Xylene	100	97.54		98			100	0.00	94.62	96.08	95	96	2	70 - 129	66 - 132	20	
o-Xylene	50	49.97		100			50	0.00	49.26	49.8	99	100	1	70 - 129	66 - 132	20	

56 compound(s) reported

* denotes recovery outside of QC limits.
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LELAP # 02006

Method: EPA 8270 **Project:** 2066467 **LCS:** 20499699 2/5/2007 12:26:00 PM

Batch: 81863 **MS:** 20499292 2/5/2007 1:48:00 PM

Units: ug/L **Original for MS:** 20499245 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
bis(2-Ethylhexyl)phthalate	50	51.93		104			50	0.00	35.81	35.15	72	70	2	30 - 154	16 - 145	20	
4-Nitrophenol	50	38.24		77			50	0.00	31.06	32.02	62	64	3	25 - 140	10 - 158	20	
Pentachlorophenol	50	33.84		68			50	0.00	23.72	23.91	47	48	1	32 - 133	24 - 147	20	

3 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Method: EPA 8270 **Project:** 2066467 **LCS:** 20500115 2/8/2007 4:15:00 PM

Batch: 81863 **MS:**

Units: ug/L **Original for MS:**

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
bis(2-Ethylhexyl)phthalate	50	24.95		50										30 - 154	-		
4-Nitrophenol	50	25.73		52										25 - 140	-		
Pentachlorophenol	50	29.23		59										32 - 133	-		

3 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Method: EPA 8270 **Project:** 2066467 **LCS:** 20500070 2/8/2007 2:11:00 PM

Batch: 82025 **MS:** 20501201 2/13/2007 1:41:00 PM

Units: ug/L **Original for MS:** 20500639 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
bis(2-Ethylhexyl)phthalate	50	65.66		131			50	0.00	18.4	30.26	37	61	49 *	30 - 154	16 - 145	20	
4-Nitrophenol	50	38.42		77			50	0.00	19.52	36.35	39	73	60 *	25 - 140	10 - 158	20	
Pentachlorophenol	50	32.69		65			50	0.00	20.98	37.81	42	76	57 *	32 - 133	24 - 147	20	

3 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Method: EPA 8270 **Project:** 2066467 **LCS:** 20500821 2/12/2007 1:55:00 PM

Batch: 82160 **MS:** 20501189 2/12/2007 2:25:00 PM

Units: ug/L **Original for MS:** 20500627 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
bis(2-Ethylhexyl)phthalate	50	40.68		81			100	0.00	52.9	63.2	53	63	18	30 - 154	16 - 145	20	
4-Nitrophenol	50	31.83		64			100	0.00	61.88	73.7	62	74	17	25 - 140	10 - 158	20	
Pentachlorophenol	50	40.35		81			100	0.00	64.06	68.66	64	69	7	32 - 133	24 - 147	20	

3 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Report of Batch Surrogate Recovery

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Report: 2066467 **Batch: 81863**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20499245	OQS	34	69	31	76	40	74		
20499290	BLANK	58	88	68	99	85	108		
20499291	LCS	74	79	64	86	73	91		
20499292	MS	48	64	52	72	59	67		
20499293	MSD	47	66	51	72	58	66		
20499500	Sample	62	70	56	77	64	39		
20499501	Sample	64	69	57	75	65	42		
20499505	Sample	62	65	52	70	53	44		
20499508	Sample	66	67	57	76	65	44		
20499509	Sample	71	71	65	72	60	42		
20499510	Sample	64	71	54	72	61	52		
20499698	BLANK	60	74	62	87	77	97		
20499699	LCS	82	79	70	89	78	94		
20500114	BLANK	68	74	71	71	68	62		
20500115	LCS	76	76	73	61	69	60		
QC limits:		25-133	36-108	10-109	21-120	15-113	17-130		

Sur 1: 2,4,6-Tribromophenol (S)
Sur 2: 2-Fluorobiphenyl (S)
Sur 3: 2-Fluorophenol (S)
Sur 4: Nitrobenzene-d5 (S)
Sur 5: Phenol-d5 (S)
Sur 6: Terphenyl-d14 (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
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A Lab ID with a MSD suffix is a matrix spike duplicate.

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Phone: 504.469.0333
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LELAP # 02006

Report: 2066467 **Batch: 81944**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20499500	Sample	123	109	100					
20499501	Sample	127	106	98					
20499505	Sample	129	107	97					
20499508	Sample	129	109	100					
20499509	Sample	126	110	99					
20499510	Sample S1	133 *	107	100					
20499511	Sample	128	109	99					
20499512	Sample S1	131 *	110	99					
20499513	Sample	129	107	99					
20499514	Sample	128	110	100					
20499515	Sample S1	130 *	109	99					
20499516	Sample	128	111	100					
20499708	Sample	125	110	99					
20499734	BLANK	114	117	100					
20499735	LCS	99	102	102					
20499736	MS	106	104	102					
20499737	MSD	106	104	102					
20499987	BLANK	113	117	100					
20499988	LCS	102	103	103					
QC limits:		71-129	68-124	74-122					

Sur 1: 4-Bromofluorobenzene (S)
Sur 2: Dibromofluoromethane (S)
Sur 3: Toluene-d8 (S)

*** denotes surrogate recovery outside of QC limits.**
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
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Phone: 504.469.0333
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LELAP # 02006

Report: 2066467 **Batch: 81996**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20499517	Sample	127	109	100					
20499518	Sample	127	107	100					
20499519	Sample	128	109	100					
20499520	Sample S1	132 *	108	99					
20499521	Sample S1	133 *	107	100					
20499680	Sample	128	110	100					
20499681	Sample	128	107	100					
20499682	Sample	126	108	100					
20499683	Sample	128	108	98					
20499684	Sample	120	106	97					
20499685	Sample S1	133 *	108	99					
20499686	Sample	129	110	99					
20499945	BLANK	120	120	101					
20499946	LCS	101	105	104					
20499947	MS	102	108	104					
20499948	MSD	105	105	104					
20500537	BLANK	120	115	102					
20500538	LCS	104	103	103					
QC limits:		71-129	68-124	74-122					

Sur 1: 4-Bromofluorobenzene (S)
Sur 2: Dibromofluoromethane (S)
Sur 3: Toluene-d8 (S)

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LELAP # 02006

Report: 2066467 **Batch: 82025**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20499511	Sample	68	79	59	80	11 *	70		
20499512	Sample	46	55	45	57	50	48		
20499513	Sample	57	72	47	82	36	65		
20499514	Sample	59	71	52	78	59	88		
20499515	Sample	66	77	62	79	66	80		
20499516	Sample	66	75	62	81	69	91		
20499517	Sample	65	79	57	83	64	87		
20499518	Sample	63	79	37	84	20	68		
20499519	Sample	62	71	60	80	66	55		
20499520	Sample	45	73	40	79	1 *	84		
20499521	Sample	78	74	64	83	72	71		
20499680	Sample	64	70	60	78	66	52		
20499681	Sample	65	72	57	79	64	79		
20499682	Sample	65	76	60	80	67	76		
20499683	Sample	67	77	62	83	67	74		
20499684	Sample	66	74	56	77	63	79		
20499685	Sample	66	75	62	82	67	78		
20499686	Sample	64	76	59	80	65	57		
20500069	BLANK	60	78	64	90	75	110		
20500070	LCS	77	81	73	90	80	108		
20500639	OQS	74	59	56	66	59	54		
20501199	BLANK	100	87	68	89	76	80		
20501200	LCS	106	96	78	80	83	93		
20501201	MS	45	36	32	35	37	36		
20501202	MSD	82	65	61	60	72	63		
QC limits:		25-133	36-108	10-109	21-120	15-113	17-130		

Sur 1: 2,4,6-Tribromophenol (S)
Sur 2: 2-Fluorobiphenyl (S)
Sur 3: 2-Fluorophenol (S)
Sur 4: Nitrobenzene-d5 (S)
Sur 5: Phenol-d5 (S)
Sur 6: Terphenyl-d14 (S)

*** denotes surrogate recovery outside of QC limits.**
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Fax: 504.469.0555
LELAP # 02006

Report: 2066467 **Batch: 82160**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20500820	BLANK	100	87	68	89	76	80		
20500821	LCS	106	96	78	80	83	93		
20501189	MS	76	58	56	64	62	61		
20501190	MSD	85	69	66	60	80	65		
	QC limits:	25-133	36-108	10-109	21-120	15-113	17-130		

Sur 1: 2,4,6-Tribromophenol (S)
Sur 2: 2-Fluorobiphenyl (S)
Sur 3: 2-Fluorophenol (S)
Sur 4: Nitrobenzene-d5 (S)
Sur 5: Phenol-d5 (S)
Sur 6: Terphenyl-d14 (S)

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Report of Method Blank

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Phone: 504.469.0333
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LELAP # 02006

Lab ID: 20499698

Description: 8270 SVOAs Water **Project No.:** 2066467

Method: EPA 8270 **Batch:** 81863 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 03-Feb-07 **Analyzed:** 02/05/07 12:00 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
98-86-2	Acetophenone	1	ND		10.0
1912-24-9	Atrazine	1	ND		10.0
21725-46-2	Cyanazine	1	ND		10.0
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		10.0
100-02-7	4-Nitrophenol	1	ND		10.0
87-86-5	Pentachlorophenol	1	ND		10.0

6 compound(s) reported

3/1/2007 13:19:18

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Phone: 504.469.0333
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LELAP # 02006

Lab ID: 20499734

Description: 8260 VOAs Full List Water BLK **Project No.:** 2066467

Method: EPA 8260 **Batch:** 81944 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 04-Feb-07 **Analyzed:** 02/04/07 20:03 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
67-64-1	Acetone	1	ND	A11	10.0
75-05-8	Acetonitrile	1	ND		100.
107-02-8	Acrolein	1	ND		20.0
107-13-1	Acrylonitrile	1	ND		20.0
107-05-1	Allyl chloride	1	ND		10.0
71-43-2	Benzene	1	ND		5.00
75-27-4	Bromodichloromethane	1	ND		5.00
75-25-2	Bromoform	1	ND		5.00
74-83-9	Bromomethane	1	ND		5.00
78-93-3	2-Butanone (MEK)	1	ND	A11	10.0
75-15-0	Carbon disulfide	1	ND		5.00
56-23-5	Carbon tetrachloride	1	ND		5.00
108-90-7	Chlorobenzene	1	ND		5.00
75-00-3	Chloroethane	1	ND		5.00
67-66-3	Chloroform	1	ND		5.00
74-87-3	Chloromethane	1	ND		5.00
126-99-8	Chloroprene	1	ND		5.00
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.00
124-48-1	Dibromochloromethane	1	ND		5.00
106-93-4	1,2-Dibromoethane (EDB)	1	ND		5.00
74-95-3	Dibromomethane	1	ND		5.00
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		5.00
75-71-8	Dichlorodifluoromethane	1	ND		5.00
75-34-3	1,1-Dichloroethane	1	ND		5.00
107-06-2	1,2-Dichloroethane	1	ND		5.00
75-35-4	1,1-Dichloroethene	1	ND		5.00
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00
78-87-5	1,2-Dichloropropane	1	ND		5.00
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		250.
100-41-4	Ethylbenzene	1	ND		5.00
97-63-2	Ethyl methacrylate	1	ND		10.0
591-78-6	2-Hexanone	1	ND		10.0
74-88-4	Iodomethane	1	ND		5.00
78-83-1	Isobutanol	1	ND		250.

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Phone: 504.469.0333
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LELAP # 02006

Lab ID: 20499734

Description: 8260 VOAs Full List Water BLK **Project No.:** 2066467

Method: EPA 8260 **Batch:** 81944 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 04-Feb-07 **Analyzed:** 02/04/07 20:03 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
98-82-8	Isopropylbenzene (Cumene)	1	ND		5.00
126-98-7	Methacrylonitrile	1	ND		100.
75-09-2	Methylene chloride	1	ND	A11	5.00
80-62-6	Methyl methacrylate	1	ND		10.0
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0
107-12-0	Propionitrile	1	ND		20.0
100-42-5	Styrene	1	ND		5.00
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.00
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00
127-18-4	Tetrachloroethene	1	ND		5.00
108-88-3	Toluene	1	ND		5.00
71-55-6	1,1,1-Trichloroethane	1	ND		5.00
79-00-5	1,1,2-Trichloroethane	1	ND		5.00
79-01-6	Trichloroethene	1	ND		5.00
75-69-4	Trichlorofluoromethane	1	ND		5.00
96-18-4	1,2,3-Trichloropropane	1	ND		5.00
95-63-6	1,2,4-Trimethylbenzene	1	ND		5.00
108-67-8	1,3,5-Trimethylbenzene	1	ND		5.00
108-05-4	Vinyl acetate	1	ND		10.0
75-01-4	Vinyl chloride	1	ND		5.00
	m&p-Xylene	1	ND		5.00
95-47-6	o-Xylene	1	ND		5.00

58 compound(s) reported

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Phone: 504.469.0333
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LELAP # 02006

Lab ID: 20499945

Description: 8260 VOAs Full List Water BLK **Project No.:** 2066467

Method: EPA 8260 **Batch:** 81996 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 06-Feb-07 **Analyzed:** 02/06/07 15:57 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
67-64-1	Acetone	1	39.8	A11	10.0
75-05-8	Acetonitrile	1	ND		100.
107-02-8	Acrolein	1	ND		20.0
107-13-1	Acrylonitrile	1	ND		20.0
107-05-1	Allyl chloride	1	ND		10.0
71-43-2	Benzene	1	ND		5.00
75-27-4	Bromodichloromethane	1	ND		5.00
75-25-2	Bromoform	1	ND		5.00
74-83-9	Bromomethane	1	ND		5.00
78-93-3	2-Butanone (MEK)	1	ND	A11	10.0
75-15-0	Carbon disulfide	1	ND		5.00
56-23-5	Carbon tetrachloride	1	ND		5.00
108-90-7	Chlorobenzene	1	ND		5.00
75-00-3	Chloroethane	1	ND		5.00
67-66-3	Chloroform	1	ND		5.00
74-87-3	Chloromethane	1	ND		5.00
126-99-8	Chloroprene	1	ND		5.00
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.00
124-48-1	Dibromochloromethane	1	ND		5.00
106-93-4	1,2-Dibromoethane (EDB)	1	ND		5.00
74-95-3	Dibromomethane	1	ND		5.00
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		5.00
75-71-8	Dichlorodifluoromethane	1	ND		5.00
75-34-3	1,1-Dichloroethane	1	ND		5.00
107-06-2	1,2-Dichloroethane	1	ND		5.00
75-35-4	1,1-Dichloroethene	1	ND		5.00
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00
78-87-5	1,2-Dichloropropane	1	ND		5.00
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		250.
100-41-4	Ethylbenzene	1	ND		5.00
97-63-2	Ethyl methacrylate	1	ND		10.0
591-78-6	2-Hexanone	1	ND		10.0
74-88-4	Iodomethane	1	ND		5.00
78-83-1	Isobutanol	1	ND		250.

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Phone: 504.469.0333
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LELAP # 02006

Lab ID: 20499945

Description: 8260 VOAs Full List Water BLK **Project No.:** 2066467

Method: EPA 8260 **Batch:** 81996 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 06-Feb-07 **Analyzed:** 02/06/07 15:57 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
126-98-7	Methacrylonitrile	1	ND		100.
75-09-2	Methylene chloride	1	ND	A11	5.00
80-62-6	Methyl methacrylate	1	ND		10.0
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0
107-12-0	Propionitrile	1	ND		20.0
100-42-5	Styrene	1	ND		5.00
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.00
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00
127-18-4	Tetrachloroethene	1	ND		5.00
108-88-3	Toluene	1	ND		5.00
71-55-6	1,1,1-Trichloroethane	1	ND		5.00
79-00-5	1,1,2-Trichloroethane	1	ND		5.00
79-01-6	Trichloroethene	1	ND		5.00
75-69-4	Trichlorofluoromethane	1	ND		5.00
96-18-4	1,2,3-Trichloropropane	1	ND		5.00
95-63-6	1,2,4-Trimethylbenzene	1	ND		5.00
108-67-8	1,3,5-Trimethylbenzene	1	ND		5.00
108-05-4	Vinyl acetate	1	ND		10.0
75-01-4	Vinyl chloride	1	ND		5.00
	m&p-Xylene	1	ND		5.00
95-47-6	o-Xylene	1	ND		5.00

57 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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3/1/2007 13:19:18

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Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
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Lab ID: 20499987

Description: 8260 VOAs Full List Water BLK **Project No.:** 2066467

Method: EPA 8260 **Batch:** 81944 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 06-Feb-07 **Analyzed:** 02/06/07 10:42 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
67-64-1	Acetone	1	ND	A11	10.0
75-05-8	Acetonitrile	1	ND		100.
107-02-8	Acrolein	1	ND		20.0
107-13-1	Acrylonitrile	1	ND		20.0
107-05-1	Allyl chloride	1	ND		10.0
71-43-2	Benzene	1	ND		5.00
75-27-4	Bromodichloromethane	1	ND		5.00
75-25-2	Bromoform	1	ND		5.00
74-83-9	Bromomethane	1	ND		5.00
78-93-3	2-Butanone (MEK)	1	ND	A11	10.0
75-15-0	Carbon disulfide	1	ND		5.00
56-23-5	Carbon tetrachloride	1	ND		5.00
108-90-7	Chlorobenzene	1	ND		5.00
75-00-3	Chloroethane	1	ND		5.00
67-66-3	Chloroform	1	ND		5.00
74-87-3	Chloromethane	1	ND		5.00
126-99-8	Chloroprene	1	ND		5.00
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.00
124-48-1	Dibromochloromethane	1	ND		5.00
106-93-4	1,2-Dibromoethane (EDB)	1	ND		5.00
74-95-3	Dibromomethane	1	ND		5.00
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		5.00
75-71-8	Dichlorodifluoromethane	1	ND		5.00
75-34-3	1,1-Dichloroethane	1	ND		5.00
107-06-2	1,2-Dichloroethane	1	ND		5.00
75-35-4	1,1-Dichloroethene	1	ND		5.00
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00
78-87-5	1,2-Dichloropropane	1	ND		5.00
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		250.
100-41-4	Ethylbenzene	1	ND		5.00
97-63-2	Ethyl methacrylate	1	ND		10.0
591-78-6	2-Hexanone	1	ND		10.0
74-88-4	Iodomethane	1	ND		5.00
78-83-1	Isobutanol	1	ND		250.

ND denotes Not Detected at or above the reporting limit.
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Lab ID: 20499987

Description: 8260 VOAs Full List Water BLK **Project No.:** 2066467

Method: EPA 8260 **Batch:** 81944 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 06-Feb-07 **Analyzed:** 02/06/07 10:42 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
98-82-8	Isopropylbenzene (Cumene)	1	ND		5.00
126-98-7	Methacrylonitrile	1	ND		100.
75-09-2	Methylene chloride	1	1.17 J	A11	5.00
80-62-6	Methyl methacrylate	1	ND		10.0
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0
107-12-0	Propionitrile	1	ND		20.0
100-42-5	Styrene	1	ND		5.00
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.00
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00
127-18-4	Tetrachloroethene	1	ND		5.00
108-88-3	Toluene	1	ND		5.00
71-55-6	1,1,1-Trichloroethane	1	ND		5.00
79-00-5	1,1,2-Trichloroethane	1	ND		5.00
79-01-6	Trichloroethene	1	ND		5.00
75-69-4	Trichlorofluoromethane	1	ND		5.00
96-18-4	1,2,3-Trichloropropane	1	ND		5.00
95-63-6	1,2,4-Trimethylbenzene	1	ND		5.00
108-67-8	1,3,5-Trimethylbenzene	1	ND		5.00
108-05-4	Vinyl acetate	1	ND		10.0
75-01-4	Vinyl chloride	1	ND		5.00
	m&p-Xylene	1	ND		5.00
95-47-6	o-Xylene	1	ND		5.00

58 compound(s) reported

3/1/2007 13:19:19

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Lab ID: 20500069

Description: 8270 SVOAs Water **Project No.:** 2066467

Method: EPA 8270 **Batch:** 82025 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 07-Feb-07 **Analyzed:** 02/08/07 13:44 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
83-32-9	Acenaphthene	1	ND		10.0
208-96-8	Acenaphthylene	1	ND		10.0
98-86-2	Acetophenone	1	ND		10.0
120-12-7	Anthracene	1	ND		10.0
1912-24-9	Atrazine	1	ND		10.0
56-55-3	Benzo(a)anthracene	1	ND		10.0
205-99-2	Benzo(b)fluoranthene	1	ND		10.0
207-08-9	Benzo(k)fluoranthene	1	ND		10.0
65-85-0	Benzoic acid	1	ND		10.0
191-24-2	Benzo(g,h,i)perylene	1	ND		10.0
50-32-8	Benzo(a)pyrene	1	ND		10.0
100-51-6	Benzyl alcohol	1	ND		10.0
101-55-3	4-Bromophenylphenyl ether	1	ND		10.0
85-68-7	Butylbenzylphthalate	1	ND		10.0
86-74-8	Carbazole	1	ND		10.0
59-50-7	4-Chloro-3-methylphenol	1	ND		10.0
106-47-8	4-Chloroaniline	1	ND		10.0
111-91-1	bis(2-Chloroethoxy)methane	1	ND		10.0
111-44-4	bis(2-Chloroethyl) ether	1	ND		10.0
91-58-7	2-Chloronaphthalene	1	ND		10.0
95-57-8	2-Chlorophenol	1	ND		10.0
7005-72-3	4-Chlorophenylphenyl ether	1	ND		10.0
218-01-9	Chrysene	1	ND		10.0
21725-46-2	Cyanazine	1	ND		10.0
53-70-3	Dibenz(a,h)anthracene	1	ND		10.0
132-64-9	Dibenzofuran	1	ND		10.0
95-50-1	1,2-Dichlorobenzene	1	ND		10.0
541-73-1	1,3-Dichlorobenzene	1	ND		10.0
106-46-7	1,4-Dichlorobenzene	1	ND		10.0
91-94-1	3,3'-Dichlorobenzidine	1	ND		10.0
120-83-2	2,4-Dichlorophenol	1	ND		10.0
84-66-2	Diethylphthalate	1	ND		10.0
105-67-9	2,4-Dimethylphenol	1	ND		10.0
131-11-3	Dimethylphthalate	1	ND		10.0
84-74-2	Di-n-butylphthalate	1	ND		10.0
534-52-1	4,6-Dinitro-2-methylphenol	1	ND		10.0

3/1/2007 13:19:19

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Lab ID: 20500069

Description: 8270 SVOAs Water **Project No.:** 2066467

Method: EPA 8270 **Batch:** 82025 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 07-Feb-07 **Analyzed:** 02/08/07 13:44 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
51-28-5	2,4-Dinitrophenol	1	ND		10.0
121-14-2	2,4-Dinitrotoluene	1	ND		10.0
606-20-2	2,6-Dinitrotoluene	1	ND		10.0
117-84-0	Di-n-octylphthalate	1	ND		10.0
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		10.0
206-44-0	Fluoranthene	1	ND		10.0
86-73-7	Fluorene	1	ND		10.0
87-68-3	Hexachloro-1,3-butadiene	1	ND		10.0
118-74-1	Hexachlorobenzene	1	ND		10.0
77-47-4	Hexachlorocyclopentadiene	1	ND		10.0
67-72-1	Hexachloroethane	1	ND		10.0
193-39-5	Indeno(1,2,3-cd)pyrene	1	ND		10.0
78-59-1	Isophorone	1	ND		10.0
91-57-6	2-Methylnaphthalene	1	ND		10.0
95-48-7	2-Methylphenol (o-Cresol)	1	ND		10.0
106-44-5	4-Methylphenol (p-Cresol)	1	ND	A7	10.0
91-20-3	Naphthalene	1	ND		10.0
88-74-4	2-Nitroaniline	1	ND		10.0
99-09-2	3-Nitroaniline	1	ND		10.0
100-01-6	4-Nitroaniline	1	ND		10.0
98-95-3	Nitrobenzene	1	ND		10.0
88-75-5	2-Nitrophenol	1	ND		10.0
100-02-7	4-Nitrophenol	1	ND		10.0
621-64-7	N-Nitroso-di-n-propylamine	1	ND		10.0
86-30-6	N-Nitrosodiphenylamine	1	ND	A10	10.0
108-60-1	2,2'-Oxybis(1-chloropropane)	1	ND		10.0
87-86-5	Pentachlorophenol	1	ND		10.0
85-01-8	Phenanthrene	1	ND		10.0
108-95-2	Phenol	1	ND		10.0
129-00-0	Pyrene	1	ND		10.0
120-82-1	1,2,4-Trichlorobenzene	1	ND		10.0
95-95-4	2,4,5-Trichlorophenol	1	ND		10.0
88-06-2	2,4,6-Trichlorophenol	1	ND		10.0

69 compound(s) reported

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Lab ID: 20500114
Description: 8270 SVOAs Water **Project No.:** 2066467
Method: EPA 8270 **Batch:** 81863 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 07-Feb-07 **Analyzed:** 02/08/07 15:47 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
98-86-2	Acetophenone	1	ND		10.0
1912-24-9	Atrazine	1	ND		10.0
21725-46-2	Cyanazine	1	ND		10.0
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		10.0
100-02-7	4-Nitrophenol	1	ND		10.0
87-86-5	Pentachlorophenol	1	ND		10.0

6 compound(s) reported

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Lab ID: 20500820

Description: 8270 SVOAs Water **Project No.:** 2066467

Method: EPA 8270 **Batch:** 82160 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 10-Feb-07 **Analyzed:** 02/12/07 13:25 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
83-32-9	Acenaphthene	1	ND		10.0
208-96-8	Acenaphthylene	1	ND		10.0
98-86-2	Acetophenone	1	ND		10.0
120-12-7	Anthracene	1	ND		10.0
1912-24-9	Atrazine	1	ND		10.0
56-55-3	Benzo(a)anthracene	1	ND		10.0
205-99-2	Benzo(b)fluoranthene	1	ND		10.0
207-08-9	Benzo(k)fluoranthene	1	ND		10.0
65-85-0	Benzoic acid	1	ND		10.0
191-24-2	Benzo(g,h,i)perylene	1	ND		10.0
50-32-8	Benzo(a)pyrene	1	ND		10.0
100-51-6	Benzyl alcohol	1	ND		10.0
101-55-3	4-Bromophenylphenyl ether	1	ND		10.0
85-68-7	Butylbenzylphthalate	1	ND		10.0
86-74-8	Carbazole	1	ND		10.0
59-50-7	4-Chloro-3-methylphenol	1	ND		10.0
106-47-8	4-Chloroaniline	1	ND		10.0
111-91-1	bis(2-Chloroethoxy)methane	1	ND		10.0
111-44-4	bis(2-Chloroethyl) ether	1	ND		10.0
91-58-7	2-Chloronaphthalene	1	ND		10.0
95-57-8	2-Chlorophenol	1	ND		10.0
7005-72-3	4-Chlorophenylphenyl ether	1	ND		10.0
218-01-9	Chrysene	1	ND		10.0
21725-46-2	Cyanazine	1	ND		10.0
53-70-3	Dibenz(a,h)anthracene	1	ND		10.0
132-64-9	Dibenzofuran	1	ND		10.0
95-50-1	1,2-Dichlorobenzene	1	ND		10.0
541-73-1	1,3-Dichlorobenzene	1	ND		10.0
106-46-7	1,4-Dichlorobenzene	1	ND		10.0
91-94-1	3,3'-Dichlorobenzidine	1	ND		10.0
120-83-2	2,4-Dichlorophenol	1	ND		10.0
84-66-2	Diethylphthalate	1	ND		10.0
105-67-9	2,4-Dimethylphenol	1	ND		10.0
131-11-3	Dimethylphthalate	1	ND		10.0
84-74-2	Di-n-butylphthalate	1	ND		10.0
534-52-1	4,6-Dinitro-2-methylphenol	1	ND		10.0

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Lab ID: 20500820
Description: 8270 SVOAs Water **Project No.:** 2066467
Method: EPA 8270 **Batch:** 82160 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 10-Feb-07 **Analyzed:** 02/12/07 13:25 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
51-28-5	2,4-Dinitrophenol	1	ND		10.0
121-14-2	2,4-Dinitrotoluene	1	ND		10.0
606-20-2	2,6-Dinitrotoluene	1	ND		10.0
117-84-0	Di-n-octylphthalate	1	ND		10.0
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		10.0
206-44-0	Fluoranthene	1	ND		10.0
86-73-7	Fluorene	1	ND		10.0
87-68-3	Hexachloro-1,3-butadiene	1	ND		10.0
118-74-1	Hexachlorobenzene	1	ND		10.0
77-47-4	Hexachlorocyclopentadiene	1	ND		10.0
67-72-1	Hexachloroethane	1	ND		10.0
193-39-5	Indeno(1,2,3-cd)pyrene	1	ND		10.0
78-59-1	Isophorone	1	ND		10.0
91-57-6	2-Methylnaphthalene	1	ND		10.0
95-48-7	2-Methylphenol (o-Cresol)	1	ND		10.0
106-44-5	4-Methylphenol (p-Cresol)	1	ND	A7	10.0
91-20-3	Naphthalene	1	ND		10.0
88-74-4	2-Nitroaniline	1	ND		10.0
99-09-2	3-Nitroaniline	1	ND		10.0
100-01-6	4-Nitroaniline	1	ND		10.0
98-95-3	Nitrobenzene	1	ND		10.0
88-75-5	2-Nitrophenol	1	ND		10.0
100-02-7	4-Nitrophenol	1	ND		10.0
621-64-7	N-Nitroso-di-n-propylamine	1	ND		10.0
86-30-6	N-Nitrosodiphenylamine	1	ND	A10	10.0
108-60-1	2,2'-Oxybis(1-chloropropane)	1	ND		10.0
87-86-5	Pentachlorophenol	1	ND		10.0
85-01-8	Phenanthrene	1	ND		10.0
108-95-2	Phenol	1	ND		10.0
129-00-0	Pyrene	1	ND		10.0
120-82-1	1,2,4-Trichlorobenzene	1	ND		10.0
95-95-4	2,4,5-Trichlorophenol	1	ND		10.0
88-06-2	2,4,6-Trichlorophenol	1	ND		10.0

69 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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LELAP # 02006

Method: EPA 8151 **Project:** 2066467 **LCS:** 20500277 2/14/2007 11:47:00 PM

Batch: 81945 **MS:** 20499742 2/8/2007 5:04:00 AM

Units: ug/L **Original for MS:** 20499297 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Dinoseb	5	5.826		117			5		4.022	1.499				10 - 146	10 - 151	20	

1 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Method: EPA 8151 **Project:** 2066467 **LCS:** 20500275 2/14/2007 3:32:00 PM

Batch: 81946 **MS:** 20499746 2/23/2007 12:19:00 AM

Units: ug/L **Original for MS:** 20499245 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Dinoseb	5	5.053		101			5	0.00	5.636	2.562	113	51	75 *	10 - 146	10 - 151	20	

1 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Method: EPA 8151 **Project:** 2066467 **LCS:** 20500608 2/21/2007 3:03:00 PM

Batch: 82113 **MS:** 20500609 2/22/2007 11:58:00 AM

Units: ug/L **Original for MS:** 20499680 Client Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Dinoseb	5	0		0 *			10	0.00	69.04	14.02	690 *	140	132 *	10 - 146	10 - 151	20	

1 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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LELAP # 02006

Report: 2066467 **Batch: 81945**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20499297	OQS	89	104						
20499518	Sample D1	99	93						
20499519	Sample	107	103						
20499520	Sample	105	103						
20499521	Sample D1	0 D	0 D						
20499740	BLANK	89	89						
20499741	LCS	89	93						
20499742	MS	49	50						
20499743	MSD	28	25						
20500276	BLANK	111	102						
20500277	LCS	109	107						
	QC limits:	10-181	10-181						

Sur 1: 2,4-DCPA (Conf)(S)
Sur 2: 2,4-DCPA (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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Report: 2066467 **Batch: 81946**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20499245	OQS	18	26						
20499500	Sample	106	102						
20499501	Sample	93	84						
20499505	Sample	104	98						
20499508	Sample	103	95						
20499509	Sample	117	111						
20499510	Sample	103	97						
20499511	Sample	110	119						
20499512	Sample	103	97						
20499513	Sample D1	100	97						
20499514	Sample	108	130						
20499515	Sample	109	105						
20499516	Sample	113	99						
20499517	Sample	104	532 *						
20499744	BLANK	15	18						
20499745	LCS	43	52						
20499746	MS	54	90						
20499747	MSD	15	18						
20500274	BLANK	100	103						
20500275	LCS	119	109						
	QC limits:	10-181	10-181						

Sur 1: 2,4-DCPA (Conf)(S)
Sur 2: 2,4-DCPA (S)

*** denotes surrogate recovery outside of QC limits.**
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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Report: 2066467 **Batch: 82037**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20499245	OQS	73	63	51	56				
20499500	Sample	67	69	48	52				
20499501	Sample	73	73	54	57				
20499505	Sample	59	59	42	55				
20499508	Sample	64	64	46	54				
20499509	Sample	68	67	54	67				
20499510	Sample	70	70	47	53				
20499511	Sample	65	63	50	65				
20499512	Sample	63	60	60	63				
20499513	Sample	66	64	63	52				
20499514	Sample	58	64	45	57				
20500153	BLANK	48	50	31	31				
20500154	LCS	58	59	51	52				
20500155	MS	70	38	47	50				
20500156	MSD	68	51	46	51				
QC limits:		10-157	10-157	18-171	18-171				

Sur 1: Decachlorobiphenyl (Conf)(S)
Sur 2: Decachlorobiphenyl (S)
Sur 3: Tetrachloro-m-xylene (Conf)(S)
Sur 4: Tetrachloro-m-xylene (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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Report: 2066467 **Batch: 82082**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20499515	Sample	79	76	63	64				
20499516	Sample	81	82	66	62				
20499517	Sample	83	84	53	79				
20499518	Sample	82	78	61	60				
20499519	Sample	74	72	61	54				
20499520	Sample	75	74	61	59				
20499521	Sample	67	67	57	61				
20499680	Sample	66	64	53	56				
20499681	Sample	63	61	56	57				
20499682	Sample	69	70	57	50				
20499683	Sample	71	73	64	63				
20499684	Sample	68	66	55	68				
20499685	Sample	65	58	52	53				
20499686	Sample	70	71	64	63				
20500429	BLANK	71	67	57	56				
20500430	LCS	45	45	36	34				
QC limits:		10-157	10-157	18-171	18-171				

Sur 1: Decachlorobiphenyl (Conf)(S)
Sur 2: Decachlorobiphenyl (S)
Sur 3: Tetrachloro-m-xylene (Conf)(S)
Sur 4: Tetrachloro-m-xylene (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
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A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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Phone: 504.469.0333
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LELAP # 02006

Report: 2066467 **Batch: 82113**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20499680	Sample	133	134						
20499681	Sample	87	88						
20499682	Sample	105	103						
20499683	Sample	137	131						
20499684	Sample	115	117						
20499685	Sample	112	131						
20499686	Sample	127	141						
20500607	BLANK	101	128						
20500608	LCS	118	141						
20500609	MS	162	120						
20500610	MSD	132	118						
20500847	BLANK	70	73						
20500848	LCS	123	126						
QC limits:		10-181	10-181						

Sur 1: 2,4-DCPA (Conf)(S)
Sur 2: 2,4-DCPA (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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LELAP # 02006

Lab ID: 20500153
Description: 8081 Pests Water **Project No.:** 2066467
Method: EPA 8081 **Batch:** 82037 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 07-Feb-07 **Analyzed:** 02/14/07 15:51 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
8001-35-2	Toxaphene	1	ND		2.00

1 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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LELAP # 02006

Lab ID: 20500274
Description: 8151 Herbs Water **Project No.:** 2066467
Method: EPA 8151 **Batch:** 81946 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 08-Feb-07 **Analyzed:** 02/14/07 15:05 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
88-85-7	Dinoseb	1	ND		2.00

1 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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LELAP # 02006

Lab ID: 20500276
Description: 8151 Herbs Water **Project No.:** 2066467
Method: EPA 8151 **Batch:** 81945 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 08-Feb-07 **Analyzed:** 02/14/07 23:20 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
94-75-7	2,4-D	1	ND		2.00
127-20-8	Dalapon	1	ND		10.0
94-82-6	2,4-DB	1	ND		5.00
1918-00-9	Dicamba	1	ND		0.500
120-36-5	Dichloroprop	1	ND		2.00
88-85-7	Dinoseb	1	ND		2.00
94-74-6	MCPA	1	ND		250.
7085-19-0	MCPP	1	ND		250.
93-76-5	2,4,5-T	1	ND		0.500
93-72-1	2,4,5-TP (Silvex)	1	ND		0.500

10 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Lab ID: 20500429

Description: 8081 Pests Water **Project No.:** 2066467

Method: EPA 8081 **Batch:** 82082 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 08-Feb-07 **Analyzed:** 02/13/07 11:48 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
309-00-2	Aldrin	1	ND		0.0500
319-84-6	alpha-BHC	1	ND		0.0500
319-85-7	beta-BHC	1	ND		0.0500
319-86-8	delta-BHC	1	ND		0.0500
58-89-9	gamma-BHC (Lindane)	1	ND		0.0500
5103-71-9	alpha-Chlordane	1	ND		0.0500
5103-74-2	gamma-Chlordane	1	ND		0.0500
72-54-8	4,4'-DDD	1	ND		0.100
72-55-9	4,4'-DDE	1	ND		0.100
50-29-3	4,4'-DDT	1	ND		0.100
60-57-1	Dieldrin	1	ND		0.100
959-98-8	Endosulfan I	1	ND		0.0500
33213-65-9	Endosulfan II	1	ND		0.100
1031-07-8	Endosulfan sulfate	1	ND		0.100
72-20-8	Endrin	1	ND		0.100
7421-93-4	Endrin aldehyde	1	ND		0.100
53494-70-5	Endrin ketone	1	ND		0.100
76-44-8	Heptachlor	1	ND		0.0500
1024-57-3	Heptachlor epoxide	1	ND		0.0500
72-43-5	Methoxychlor	1	ND		0.500
8001-35-2	Toxaphene	1	ND		2.00

21 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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LELAP # 02006

Lab ID: 20500607
Description: 8151 Herbs Water **Project No.:** 2066467
Method: EPA 8151 **Batch:** 82113 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 09-Feb-07 **Analyzed:** 02/21/07 14:36 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
94-75-7	2,4-D	1	ND		2.00
127-20-8	Dalapon	1	ND		10.0
94-82-6	2,4-DB	1	ND		5.00
1918-00-9	Dicamba	1	ND		0.500
120-36-5	Dichloroprop	1	ND		2.00
88-85-7	Dinoseb	1	ND		2.00
94-74-6	MCPA	1	ND		250.
7085-19-0	MCPP	1	ND		250.
93-76-5	2,4,5-T	1	ND		0.500
93-72-1	2,4,5-TP (Silvex)	1	ND		0.500

10 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Phone: 504.469.0333
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LELAP # 02006

Project: 2066467

Parameter	Batch	Blank	ARL	Units	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	RPD Max	Qu
Arsenic	81950	ND	10.0	ug/L	1000	100			1000	92	93	1		79 - 122	68 - 130	20	
Arsenic, Disso	81961	ND	10.0	ug/L	1000	97			1000	83	88	5		72 - 116	60 - 123	20	
Arsenic	82103	ND	10.0	ug/L	1000	94			1000	92	91	1		79 - 122	68 - 130	20	
Arsenic, Disso	82351	ND	10.0	ug/L	1000	105			1000	93	90	2		72 - 116	60 - 123	20	

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ARL denotes Adjusted Reporting Limit , corrected for sample size, dilution and moisture content as applicable.
* denotes recovery outside of QC limits.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

Pace Analytical®
New Orleans Laboratory

Report of Quality Control

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Wet Chemistry Quality Control Results

Project: 2066467

Parameter	Batch	Blank	ARL	Units	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	RPD Max	Qu
BOD, 5 day	81936	ND	2.00	mg/L	198	91							0	85 - 115	-	20	
BOD, 5 day	81937	ND	2.00	mg/L	198	90							0	85 - 115	-	20	
Chemical Oxy	81965	ND	5.00	mg/L	100	103			100	95	94	1		90 - 110	75 - 125	20	
Chemical Oxy	81973	ND	5.00	mg/L	100	95			100	87	89	2		90 - 110	75 - 125	20	
Chloride	82034	ND	1.00	mg/L	113.3	94			20	157 *	124	13		90 - 110	75 - 125	20	
Chloride	82033	ND	1.00	mg/L	113.3	94			20	132 *	132 *	0		90 - 110	75 - 125	20	
Nitrate-Nitrite	82011	ND	0.100	mg/L	1.21	91			1	91	90	1		90 - 110	80 - 120	20	
Nitrate-Nitrite	82010	ND	0.100	mg/L					1	118	55 *	15		-	80 - 120	20	D1
Nitrate-Nitrite	82010			mg/L	1.21	99								90 - 110	-		
Nitrogen, Am	82092	ND	0.100	mg/L	1	104			1	50 *	44 *	11		80 - 120	75 - 125	20	Q1
Nitrogen, Am	82089	ND	0.100	mg/L	1	102			1	15 *	32 *	51 *		80 - 120	75 - 125	20	
pH	81942			1. Units	6	101							1	97 - 103	-	20	
pH	81941			1. Units	6	101							1	97 - 103	-	20	
Phosphorus	82049			mg/L	1.13	105								80 - 120	-		
Phosphorus	82049	ND	0.100	mg/L					2.5	92	94	2		-	75 - 125	20	
Phosphorus	82050	ND	0.100	mg/L	1.13	96			2.5	120	102	10		80 - 120	75 - 125	20	
Sulfate	81972	ND	1.00	mg/L	19.84	93			20	0 *	6 *	200 *		90 - 110	75 - 125	20	
Sulfate	81969	ND	1.00	mg/L	19.84	93			20	0 *	0 *	14		90 - 110	75 - 125	20	Q1
Total Dissolve	81954	ND	10.0	mg/L	100	94							2	80 - 120	-	20	
Total Dissolve	81955	ND	10.0	mg/L	100	92							4	80 - 120	-	20	
Total Suspend	81952	ND	4.00	mg/L	100	104							180	80 - 120	-	20	
Total Suspend	81951	ND	4.00	mg/L	100	98							6	80 - 120	-	20	

3/1/2007 13:19:35

ARL denotes Adjusted Reporting Limit , corrected for sample size, dilution and moisture content as applicable.
* denotes recovery outside of QC limits.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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New Orleans Laboratory

Report Qualifiers

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2066467

ALL Qualifiers

Qualifier	Qualifier Description
N	See narrative for a detailed explanation.

Analyte Qualifiers

Qualifier	Qualifier Description
A7	3-Methylphenol and 4-methylphenol coelute under the conditions used for analysis, therefore the precise isomer in the sample cannot be determined. The sample concentration is arbitrarily reported as 4-methylphenol.
A10	N-Nitrosodiphenylamine is reported as diphenylamine.
A11	This analyte is a common solvent. Its presence in field samples may be an artifact of sample collection, transport, laboratory storage or analysis.
B	This analyte was detected in the method blank.
J	This estimated value for the analyte is below the adjusted reporting limit but above the instrument reporting limit.

General Qualifiers

Qualifier	Qualifier Description
D1	The analysis was performed at a dilution due to the high analyte concentration.

QC Qualifiers

Qualifier	Qualifier Description
Q1	The matrix spike recoveries are poor. Acceptable method performance for this analyte has been demonstrated by the laboratory control sample recovery.
S1	The surrogate recovery was above the QC limit. The data are reported without qualification since the associated target analytes were not detected in the sample.

Sample Qualifiers

Qualifier	Qualifier Description
M1	The sample required reextraction and/or reanalysis due to surrogate recoveries outside the QC limits. Reanalysis yielded similar results, indicating a sample matrix effect. The results reported are from the original analysis.

New Orleans Laboratory Certifications
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Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health_Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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2066467

Page: 1 of 1

Section A Required Client Information:

Company: ARCADIS	
Address: 10352 Plaza Americana Drive	
Baton Rouge, Louisiana 70816	
Email To: Craig.Derouen@arcadis-us.com; Jane.Kennedy@arcadis-us.com	
Phone: (225) 292-1004 Fax: (225) 218-9677	
Requested Due Date/TAT:	

Section B Required Project Information:

Report To: Craig Derouen	
Copy To: Jane Kennedy	
Purchase Order No.:	
Project Name: MS Bluffs (Vicksburg, MS)	
Project Number: LA002656.0001	

Section C Invoice Information:

Attention: ARCADIS - Accounts Payable	
Company Name: ARCADIS	
Address: 10352 Plaza Americana; Baton Rouge, LA 70819	
Pace Quote Reference:	
Pace Project Manager: Cindy Olavesen	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER MDEQ TRGs

SITE LOCATION: ☐ GA ☐ IL ☐ IN ☐ MI ☐ NC ☐ OH ☐ SC ☑ WI ☐ OTHER MS

Section D Required Client Information

SAMPLE ID
One Character per box.
(A-Z, 0-9 / ,-)
Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analyses: VOLATILES	SV,PEST,HERBS	D-METALS	T-METALS	FLUORIDE	BOD	NH3,COD,NO3,T-PPHOS	CL,SO4,TDS,TSS,pH	Residual Chlorine (Y/N)	Pace Project Number Lab I.D.
1	SW-North Sump (020207)	WT		02/02/07	0815				3		2		1					1	1	1			1	1		20499680
2	SW-North Pond (020207)	WT		"	0830				3		2		1					1	1	1			1	1		681
3	SW-Pond A (020207)	WT		"	0925				3		2		1					1	1	1			1	1		682
4	SW-Discharge Pond A (020207)	WT		"	0935				3		2		1					1	1	1			1	1		683
5	SW-Pond C (020207)	WT		02/02/07	0935				3		2		1					1	1	1			1	1		684
6	SW-Pond B (020207)	WT		"	0955				3		2		1					1	1	1			1	1		685
7	SW-Dup-02 (020207)	WT		"	02/02/07				3		2		1					1	1	1			1	1		686
8																										
9																										
10																										
11																										
12																										

Additional Comments:

MDEQ Tier 1 TRG Detection Limits

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
George E. Cook	02/02/07	1630	[signature] PACE	2/2/07	1630
[signature]	2/2/07	1820	[signature] / PACE	2/2/07	1820

SAMPLE CONDITIONS

Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
2.4, 2.6	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: George E Cook

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 02/02/07

E-File,(ALLQ020rev.3,31Mar05), 13Jun2005

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Page: 2 of 2

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: ARCADIS	Report To: Craig Derouen	Attention: ARCADIS - Accounts Payable
Address: 10352 Plaza Americana Drive	Copy To: Jane Kennedy	Company Name: ARCADIS
Baton Rouge, Louisiana 70816		Address: 10352 Plaza Americana; Baton Rouge, LA 70819
Email To: Craig.Derouen@arcadis-us.com; Jane.Kennedy@arcadis-us.com	Purchase Order No.:	Pace Quote Reference:
Phone: (225) 292-1004 Fax: (225) 218-9677	Project Name: MS Bluffs (Vicksburg, MS)	Pace Project Manager: Cindy Olavesen
Requested Due Date/TAT:	Project Number: LA002656.0001	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER MDEQ TRGs

SITE LOCATION ☐ GA ☐ IL ☐ IN ☐ MI ☐ NC ☐ OH ☐ SC ☐ WI ☑ OTHER MS

Section D Required Client Information

SAMPLE ID
One Character per box.
(A-Z, 0-9 / ,-)
Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analyses Requested: VOLATILES	SV PEST-HERBS	D-METALS	T-METALS	FLUORIDE	SRAD	NH_3,COD,NO3,T-PHOS	CL-SO4,TDS,TSS,pH	Residual Chlorine (Y/N)	Pace Project Number / Lab I.D.
1	SW-13(020107)	WT	G	02-01-07	1816	02-01-07												3	7	1	1	1		1	1		20499518
2	SW-09(020107)	WT	G	02-01-07	1820	02-01-07												3	7	1	1	1		1	1		519
3	SW-14(020107)	WT	G	02-01-07	1835	02-01-07												3	7	1	1	1		1	1		520
4	SW-12(020107)	WT	G	02-01-07	1845	02-01-07												3	7	1	1	1		1	1		521
5	SW-DUP-01(020107)	WT	G	02-01-07	—	02-01-07	—											3	7	1	1	1		1	1		501
6	TB-SW-01(020107)	WT	G	02-01-07	—																						9708
7																											
8																											
9																											
10																											
11																											
12																											

Additional Comments:

MDEQ Tier 1 TRG Detection Limits

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
George E Cook/Arcadis	02-02-07	1630	Dawn Allen/Pace	2/2/07	1630
Dawn Allen	2/2/07	1820	KAP/Pace	2/2/07	1820

SAMPLE CONDITIONS

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
3.4 / 3.6	(Y) / N	(Y) / N	(Y) / N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: George E Cook

SIGNATURE of SAMPLER:

DATE Signed (MM / DD / YY): 02/01/07

Cooler Range
2.4° - 2.6°

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Cooler # 10

Page: 1 of 2

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: ARCADIS	Report To: Craig Derouen	Attention: ARCADIS - Accounts Payable
Address: 10352 Plaza Americana Drive	Copy To: Jane Kennedy	Company Name: ARCADIS
Baton Rouge, Louisiana 70816		Address: 10352 Plaza Americana; Baton Rouge, LA 70819
Email To: Craig.Derouen@arcadis-us.com; Jane.Kennedy@arcadis-us.com	Purchase Order No.:	Pace Quote Reference:
Phone: (225) 292-1004 Fax: (225) 218-9677	Project Name: MS Bluffs (Vicksburg, MS)	Pace Project Manager: Cindy Olavesen
Requested Due Date/TAT:	Project Number: LA002656.0001	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER MDEQ TRGs

SITE LOCATION: ☐ GA ☐ IL ☐ IN ☐ MI ☐ NC ☐ OH ☐ SC ☐ WI ☑ OTHER MS

Filtered (Y/N)

Requested Analysis

Section D Required Client Information

SAMPLE ID
One Character per box.
(A-Z, 0-9 / ,-)
Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL WP
WIPE	AR
AIR	OT
OTHER	TS
TISSUE	

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	VOLATILES (APIX)	SV,PEST,HERBS	D-METALS	T-METALS	FLUORIDE	BOD	NH3,COD,NO3,T-PHOS	CL,SO4,TDS,TSS,pH	Residual Chlorine (Y/N)	Pace Project Number Lab I.D.
1	SW-01(020107)	WT	G	02-01-07	1415	02-01-07	1435	(F) 45.7	15	10	1	1	3					3	7	1	1	1		1	1		20449500
2	SW-03(020107)	WT	G	"	1445	"	1455		"	"	1	1	3					3	7	1	1	1		1	1		505
3	SW-04(020107)	WT	G	"	1500	"			"	"	1	1	3					3	7	1	1	1		1	1		508
4	SouthSump(020107)	WT	G	"	1510	"			"	"	1	1	3														515
5	SW-05(020107)	WT	G	02-01-07	1540	02-01-07			"	10	1	1	3														509
6	SW-06(020107)	WT	G	"	1600	"			15	"	1	1	3														511
7	SW-02(020107)	WT	G	"	1605	"			"	"	1	1	3														510
8	SW-07(020107)	WT	G	"	1615	"			"	"	1	1	3														512
9	SW-08(020107)	WT	G	02-01-07	1640	020107			"	"	1	1	3														513
10	SW-15(020107)	WT	G	"	1730	"			"	"	1	1	3														514
11	SW-10(020107)	WT	G	"	1800	"			"	10	1	1	3														516
12	SW-11(020107)	WT	G	"	1810	"			"	"	1	1	3														517

BOD — 51 02/01/07

Additional Comments:

MDEQ Tier 1 TRG Detection Limits

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
George E Cook	02-02-07	1630	[signature] / Pace	2/2/07	1630		Y/N	Y/N	Y/N
[signature]	2/2/07	1820	[signature] / Pace	2/2/07	1820	2.4 / 3.6	Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N
						Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact

VOC's are included in BOD cooler # 35

Job # for Storm Water is LA002565.0001.0001, make separate report from 2 ...

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: George E Cook

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 02-01-07

E-File,(ALLQ020rev.3,31Mar05), 13Jun2005

ARCADIS

Laboratory Task Order No./P.O. No. _____ **CHAIN-OF-CUSTODY RECORD** Page 2 of 2

Project Number/Name Miss Bluffs / LA002656.0001.00004

Project Location Vicksburg, MS

Laboratory PACE

Project Manager Craig Deraun

Sampler(s)/Affiliation Geoff Look, J. Dolan, C. Fontenot

cooler #34

2066467

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE: BOD	2 sample/4°C					Remarks	Total
SW-12 (020107)	L	02-01-07 1845		1						2049521	1
SW-Dup-01 (020107)	L	020107		1						501	1
SW-North Sump (020207)	L	02-02-07 0815		1						680	1
SW-North Pond (020207)	L	0830		1						681	1
SW-Pond A (020207)	L	0925		1						682	1
SW-Discharge Pond A (020207)	L	0935		1						683	1
SW-Pond C (020207)	L	0935		1						684	1
SW-Pond B (020207)	L	0955		1						685	1
SW-Dup-02 (020207)	L	02-02-07		1						686	1
										Total pS 1	15
										Total pg 2	9
										Total No. of Bottles/ Containers	24

Sample Matrix: L = Liquid; S = Solid; A = Air

Relinquished by: Geoff E Look	Organization: Arcadis	Date 02 01 07	Time 1630	Seal Intact?	
Received by:	Organization: PACE	Date 2/2/07	Time 1630	Yes	No N/A
Relinquished by:	Organization: PACE	Date 2/2/07	Time 1820	Seal Intact?	
Received by: KARR	Organization: PACE	Date 2/2/07	Time 1820	Yes	No N/A

Special Instructions/Remarks:

BOD's collected 02/01/07 and in Cooler #34 2.4-2.6

Delivery Method: ☒ In Person ☐ Common Carrier _____ SPECIFY ☒ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

ARCADIS

Laboratory Task Order No./P.O. No. _____ **CHAIN-OF-CUSTODY RECORD** Page 1 of 2

Project Number/Name Miss Bluff / LA000265.0001.00014

Project Location Vicksburg, MS.

Laboratory PACE

Project Manager Chris Devours

Sampler(s)/Affiliation G. Cook, I Irchay, C. Fontenot

Cooler #34

2066467

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE: BOD 250ml plastic/4°C						Remarks	Total
SW-01 (020107)	L	02-01-07 1415		1						20499500	1
SW-03 (020107)	L	1445		1						505	1
SW-04 (020107)	L	1500		1						508	1
South Sump (020107)	L	1510		1						515	1
SW-05 (020107)	L	1540		1						509	1
SW-06 (020107)	L	1600		1						511	1
SW-02 (020107)	L	1605		1						510	1
SW-07 (020107)	L	1615		1						512	1
SW-08 (020107)	L	1640		1						513	1
SW-15 (020107)	L	1730		1						514	1
SW-10 (020107)	L	1800		1						516	1
SW-11 (020107)	L	1810		1						517	1
SW-13 (020107)	L	1816		1						518	1
SW-09 (020107)	L	1820		1						519	1
SW-14 (020107)	L	1835		1						520	1
										Total No. of Bottles/ Containers	15

Sample Matrix: L = Liquid; S = Solid; A = Air

Relinquished by: George E Cook	Organization: Arcadis	Date 02/02/07	Time 1630	Seal Intact?		
Received by: [signature] PM	Organization: Pace	Date 2/2/07	Time 1630	(Yes)	No	N/A
Relinquished by: [signature]	Organization: Pace	Date 2/2/07	Time 1820	Seal Intact?		
Received by: [signature]	Organization: Pace	Date 2/2/07	Time 1820	(Yes)	No	N/A

Special Instructions/Remarks:

BOD's collected on 2/2/07 are in Cooler #35 2.4 thru 2.6°

Delivery Method: ☒ In Person ☐ Common Carrier _____ SPECIFY ☒ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

Pace Analytical™
www.pacelabs.com

Pace Analytical Services, Inc.
2800 Kinsey Avenue, Suite 100
Huntersville, NC 28078
Phone: 704.875.3092
Fax: 704.875.9091

February 20, 2007

Project Management
Pace Analytical Services, Inc.
1000 Riverbend Blvd.
Suite F
St. Rose, LA 77087

RE: Lab Project Number: 92137391
Client Project ID: 2066467 ARCADIS G&M

Dear Management:

Enclosed are the analytical results for sample(s) received by the laboratory on February 2, 2007. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals Analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Charlotte laboratory unless otherwise footnoted.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Kevin Herring
kevin.herring@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
9800 Kinsey Avenue, Suite 100
Huntersville, NC 28078
Phone: 704.875.9092
Fax: 704.875.9091

Lab Project Number: 92137391
Client Project ID: 2066467 ARCADIS G&M

Lab Sample No: 20499500 Project Sample Number: 92137391-001 Date Collected: 02/01/07 14:15
Client Sample ID: SW-01 Matrix: Water Date Received: 02/02/07 18:20

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
Fluoride	Method: EPA 340.2							
Fluoride	0.40	mg/l	0.10	02/12/07 12:20	TMR	16984-48-8		

Date: 02/20/07

Additional Certifications
NC Wastewater 40
NC Drinking Water 37712
SC Environmental 99030
FLNELAP E87640

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nelac

Additional Certifications ID:
NC Wastewater 12
NC Drinking Water 37705
SC 99005
FLNELAP E87627

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Huntersville, NC 28078
Phone: 704.875.9092
Fax: 704.875.9091

Lab Project Number: 92137391
Client Project ID: 2066467 ARCADIS G&M

Lab Sample No: 20499501 Project Sample Number: 92137391-002 Date Collected: 02/01/07 00:00
Client Sample ID: SW-DUP-01 Matrix: Water Date Received: 02/02/07 18:20

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
Fluoride	Method: EPA 340.2							
Fluoride	0.39	mg/l	0.10	02/12/07 12:20	TMR	16984-48-8		

Additional Certification IDs
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Lab Project Number: 92137391
Client Project ID: 2066467 ARCADIS G&M

Lab Sample No: 20499505 Project Sample Number: 92137391-003 Date Collected: 02/01/07 14:45
Client Sample ID: SW-03 Matrix: Water Date Received: 02/02/07 18:20

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
Fluoride	Method: EPA 340.2							
Fluoride	0.31	mg/l	0.10	02/12/07 12:20	TMR	16984-48-8		

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Lab Project Number: 92137391
Client Project ID: 2066467 ARCADIS G&M

Lab Sample No: 20499508 Project Sample Number: 92137391-004 Date Collected: 02/01/07 15:00
Client Sample ID: SW-04 Matrix: Water Date Received: 02/02/07 18:20

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
Fluoride	Method: EPA 340.2							
Fluoride	0.28	mg/l	0.10	02/12/07 12:20	TMR	16984-48-8		

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Lab Project Number: 92137391
Client Project ID: 2066467 ARCADIS G&M

Lab Sample No: 20499509 Project Sample Number: 92137391-005 Date Collected: 02/01/07 15:40
Client Sample ID: SW-05 Matrix: Water Date Received: 02/02/07 18:20

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
Fluoride	Method: EPA 340.2							
Fluoride	0.25	mg/l	0.10	02/12/07 12:20	TMR	16984-48-8		

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Lab Project Number: 92137391
Client Project ID: 2066467 ARCADIS G&M

Lab Sample No: 20499510 Project Sample Number: 92137391-006 Date Collected: 02/01/07 16:05
Client Sample ID: SW-02 Matrix: Water Date Received: 02/02/07 18:20

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
Fluoride	Method: EPA 340.2							
Fluoride	0.21	mg/l	0.10	02/12/07 12:20	TMR	16984-48-8		

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Lab Project Number: 92137391
Client Project ID: 2066467 ARCADIS G&M

Lab Sample No: 20499511 Project Sample Number: 92137391-007 Date Collected: 02/01/07 16:00
Client Sample ID: SW-06 Matrix: Water Date Received: 02/02/07 18:20

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
Fluoride	Method: EPA 340.2							
Fluoride	0.32	mg/l	0.10	02/12/07 12:20	TMR	16984-48-8		

Date: 02/20/07

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Lab Project Number: 92137391
Client Project ID: 2066467 ARCADIS G&M

Lab Sample No: 20499512 Project Sample Number: 92137391-008 Date Collected: 02/01/07 16:15
Client Sample ID: SW-07 Matrix: Water Date Received: 02/02/07 18:20

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
Fluoride	Method: EPA 340.2							
Fluoride	ND	mg/l	0.10	02/12/07 12:20	TMR	16984-48-8		

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Lab Project Number: 92137391
Client Project ID: 2066467 ARCADIS G&M

Lab Sample No: 20499513 Project Sample Number: 92137391-009 Date Collected: 02/01/07 16:40
Client Sample ID: SW-08 Matrix: Water Date Received: 02/02/07 18:20

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
Fluoride	Method: EPA 340.2							
Fluoride	0.87	mg/l	0.10	02/12/07 12:20	TMR	16984-48-8		

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Lab Project Number: 92137391
Client Project ID: 2066467 ARCADIS G&M

Lab Sample No: 20499514 Project Sample Number: 92137391-010 Date Collected: 02/01/07 17:30
Client Sample ID: SW-15 Matrix: Water Date Received: 02/02/07 18:20

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
Fluoride	Method: EPA 340.2							
Fluoride	0.17	mg/l	0.10	02/12/07 12:20	TMR	16984-48-8		

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Lab Project Number: 92137391
Client Project ID: 2066467 ARCADIS G&M

Lab Sample No: 20499515 Project Sample Number: 92137391-011 Date Collected: 02/01/07 15:10
Client Sample ID: SOUTH SUMP Matrix: Water Date Received: 02/02/07 18:20

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
Fluoride	Method: EPA 340.2							
Fluoride	0.22	mg/l	0.10	02/12/07 12:20	TMR	16984-48-8		

Date: 02/20/07

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Lab Project Number: 92137391
Client Project ID: 2066467 ARCADIS G&M

Lab Sample No: 20499516 Project Sample Number: 92137391-012 Date Collected: 02/01/07 18:00
Client Sample ID: SW-10 Matrix: Water Date Received: 02/02/07 18:20

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
Fluoride	Method: EPA 340.2							
Fluoride	ND	mg/l	0.10	02/12/07 12:20	TMR	16984-48-8		

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Lab Project Number: 92137391
Client Project ID: 2066467 ARCADIS G&M

Lab Sample No: 20499517 Project Sample Number: 92137391-013 Date Collected: 02/01/07 18:10
Client Sample ID: SW-11 Matrix: Water Date Received: 02/02/07 18:20

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
Fluoride	Method: EPA 340.2							
Fluoride	0.16	mg/l	0.10	02/12/07 12:20	TMR	16984-48-8		

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Lab Project Number: 92137391
Client Project ID: 2066467 ARCADIS G&M

Lab Sample No: 20499518 Project Sample Number: 92137391-014 Date Collected: 02/01/07 18:16
Client Sample ID: SW-13 Matrix: Water Date Received: 02/02/07 18:20

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
Fluoride	Method: EPA 340.2							
Fluoride	0.47	mg/l	0.10	02/12/07 12:20	TMR	16984-48-8		

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Lab Project Number: 92137391
Client Project ID: 2066467 ARCADIS G&M

Lab Sample No: 20499519 Project Sample Number: 92137391-015 Date Collected: 02/01/07 18:20
Client Sample ID: SW-09 Matrix: Water Date Received: 02/02/07 18:20

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
Fluoride	Method: EPA 340.2							
Fluoride	ND	mg/l	0.10	02/20/07 11:50	TMR	16984-48-8		

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Lab Project Number: 92137391
Client Project ID: 2066467 ARCADIS G&M

Lab Sample No: 20499520 Project Sample Number: 92137391-016 Date Collected: 02/01/07 18:35
Client Sample ID: SW-14 Matrix: Water Date Received: 02/02/07 18:20

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
Fluoride	Method: EPA 340.2							
Fluoride	1.1	mg/l	0.10	02/20/07 11:50	TMR	16984-48-8		

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Lab Project Number: 92137391
Client Project ID: 2066467 ARCADIS G&M

Lab Sample No: 20499521 Project Sample Number: 92137391-017 Date Collected: 02/01/07 18:45
Client Sample ID: SW-12 Matrix: Water Date Received: 02/02/07 18:20

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
Fluoride	Method: EPA 340.2							
Fluoride	ND	mg/l	0.10	02/20/07 11:50	TMR	16984-48-8		

Date: 02/20/07

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Lab Project Number: 92137391
Client Project ID: 2066467 ARCADIS G&M

Lab Sample No: 20499680 Project Sample Number: 92137391-018 Date Collected: 02/01/07 18:15
Client Sample ID: SW-NORTH SUMP (020207) Matrix: Water Date Received: 02/02/07 18:20

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
Fluoride	Method: EPA 340.2							
Fluoride	ND	mg/l	0.10	02/20/07 11:50	TMR	16984-48-8		

Date: 02/20/07

Accreditation IDs:
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Lab Project Number: 92137391
Client Project ID: 2066467 ARCADIS G&M

Lab Sample No: 20499681 Project Sample Number: 92137391-019 Date Collected: 02/02/07 08:30
Client Sample ID: SW-NORTH POND (020207) Matrix: Water Date Received: 02/02/07 18:20

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
Fluoride	Method: EPA 340.2							
Fluoride	ND	mg/l	0.10	02/20/07 11:50	TMR	16984-48-8		

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Lab Project Number: 92137391
Client Project ID: 2066467 ARCADIS G&M

Lab Sample No: 20499682 Project Sample Number: 92137391-020 Date Collected: 02/02/07 09:25
Client Sample ID: SW-POND A(020207) Matrix: Water Date Received: 02/02/07 18:20

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
Fluoride	Method: EPA 340.2							
Fluoride	0.21	mg/l	0.10	02/20/07 11:50	TMR	16984-48-8		

Date: 02/20/07

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Lab Project Number: 92137391
Client Project ID: 2066467 ARCADIS G&M

Lab Sample No: 20499683 Project Sample Number: 92137391-021 Date Collected: 02/02/07 09:35
Client Sample ID: SW-DISCHARGE POND A (020207) Matrix: Water Date Received: 02/02/07 18:20

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
Fluoride	Method: EPA 340.2							
Fluoride	0.22	mg/l	0.10	02/20/07 11:50	TMR	16984-48-8		

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Lab Project Number: 92137391
Client Project ID: 2066467 ARCADIS G&M

Lab Sample No: 20499684 Project Sample Number: 92137391-022 Date Collected: 02/02/07 09:35
Client Sample ID: SW-POND C (020207) Matrix: Water Date Received: 02/02/07 18:20

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
Fluoride	Method: EPA 340.2							
Fluoride	0.23	mg/l	0.10	02/20/07 11:50	TMR	16984-48-8		

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Lab Project Number: 92137391
Client Project ID: 2066467 ARCADIS G&M

Lab Sample No: 20499685 Project Sample Number: 92137391-023 Date Collected: 02/02/07 09:55
Client Sample ID: SW-POND B (020207) Matrix: Water Date Received: 02/02/07 18:20

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
Fluoride	Method: EPA 340.2							
Fluoride	0.23	mg/l	0.10	02/20/07 11:50	TMR	16984-48-8		

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Lab Project Number: 92137391
Client Project ID: 2066467 ARCADIS G&M

Lab Sample No: 20499686 Project Sample Number: 92137391-024 Date Collected: 02/02/07 00:00
Client Sample ID: SW-DUP-02 (020207) Matrix: Water Date Received: 02/02/07 18:20

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
Fluoride	Method: EPA 340.2							
Fluoride	0.22	mg/l	0.10	02/20/07 11:50	TMR	16984-48-8		

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Lab Project Number: 92137391
Client Project ID: 2066467 ARCADIS G&M

PARAMETER FOOTNOTES

Method 9071B modified to use ASE.

All pH, Free Chlorine, Total Chlorine and Ferrous Iron analyses conducted outside of EPA recommended immediate hold time.

Depending on the moisture content the PRLs can be elevated for all soil samples reported on a dry weight basis.

2-Chloroethyl vinyl ether has been shown to degrade in the presence of acid.

ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit

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QUALITY CONTROL DATA

Lab Project Number: 92137391
Client Project ID: 2066467 ARCADIS G&M

QC Batch: 180327 — Analysis Method: EPA 340.2
QC Batch Method: EPA 340.2 — Analysis Description: Fluoride
Associated Lab Samples: 20499500 20499501 20499505 20499508 20499509 20499510 20499511 20499512 20499513 20499514 20499515 20499516 20499517 20499518

METHOD BLANK: 927997221
Associated Lab Samples: 20499500 20499501 20499505 20499508 20499509 20499510 20499511 20499512 20499513 20499514 20499515 20499516 20499517 20499518

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Fluoride	mg/l	ND	0.10	

LABORATORY CONTROL SAMPLE: 927997239

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Fluoride	mg/l	2.500	2.700	108	

MATRIX SPIKE: 927997247

Parameter	Units	927967323 Result	Spike Conc.	MS Result	MS % Rec	Footnotes
Fluoride	mg/l	0	200.00	168.0	84	1,2

SAMPLE DUPLICATE: 927997254

Parameter	Units	927967331 Result	DUP Result	RPD	Footnotes
Fluoride	mg/l	ND	ND	NC	1,2

Asheville Certification IDs
NC Wastewater 40
NC Drinking Water 37712
SC Environmental 99030
FL-NELAP E87540

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Charlotte Certification IDs
NC Wastewater 12
NC Drinking Water 37706
SC 99006
FL-NELAP E87627

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www.pacelabs.com

Pace Analytical Services, Inc.
3890 Kinsey Avenue, Suite 100
Huntersville, NC 28078
Phone: 704.875.9092
Fax: 704.875.9091

QUALITY CONTROL DATA

Lab Project Number: 92137391
Client Project ID: 2066467 ARCADIS G&M

QC Batch: 180905 — Analysis Method: EPA 340.2
QC Batch Method: EPA 340.2 — Analysis Description: Fluoride
Associated Lab Samples: 20499519 20499520 20499521 20499680 20499681 20499682 20499683 20499684 20499685 20499686

METHOD BLANK: 928023480
Associated Lab Samples: 20499519 20499520 20499521 20499680 20499681 20499682 20499683 20499684 20499685 20499686

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Fluoride	mg/l	ND	0.10	

LABORATORY CONTROL SAMPLE: 928023498

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Fluoride	mg/l	2.500	2.730	109	

MATRIX SPIKE: 928023506

Parameter	Units	20499519 Result	Spike Conc.	MS Result	MS % Rec	Footnotes
Fluoride	mg/l	0	2.500	2.540	102	

SAMPLE DUPLICATE: 928023514

Parameter	Units	20499520 Result	DUP Result	RPD	Footnotes
Fluoride	mg/l	1.100	1.100	0	

Additional Certifications
NC Wastewater 40
NC Drinking Water 37712
SC Environmental 99030
FL-NELAP E87640

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NC Drinking Water 37706
SC 99005
FL-NELAP E87627

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www.pacelabs.com

Pace Analytical Services, Inc.
9800 Kincey Avenue, Suite 100
Huntersville, NC 28078
Phone: 704.875.9092
Fax: 704.875.9091

Lab Project Number: 92137391
Client Project ID: 2066467 ARCADIS G&M

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
RPD	Relative Percent Difference
[1]	The sample was diluted to reduce matrix interference, resulting in elevated reporting limits.
[2]	Analysis conducted in excess of EPA recommended holding time.

Asheville Certification IDs:
NC Wastewater 40
NC Drinking Water 37712
SC Environmental 99030
FL-NELAP E87540

REPORT OF LABORATORY ANALYSIS
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nelac

Charlotte Certification IDs:
NC Wastewater 12
NC Drinking Water 37706
SC 99006
FL-NELAP E87627

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

2066467

Page: 1 of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: ARCADIS	Report To: Craig Derouen	Attention: ARCADIS - Accounts Payable
Address: 10352 Plaza Americana Drive	Copy To: Jane Kennedy	Company Name: ARCADIS
Baton Rouge, Louisiana 70816		Address: 10352 Plaza Americana; Baton Rouge, LA 70819
Email To: Craig.Derouen@arcadis-us.com; Jane.Kennedy@arcadis-us.com	Purchase Order No.:	Pace Quote Reference:
Phone: (225) 292-1004 Fax: (225) 218-9677	Project Name: MS Bluffs (Vicksburg, MS)	Pace Project Manager: Cindy Olavesen
Requested Due Date/TAT:	Project Number: LA002656.0001	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER MDEQ TRGs

SITE LOCATION ☐ GA ☐ IL ☐ IN ☐ MI ☐ NC ☐ OH ☐ SC ☑ WI ☐ OTHER MS

Section D Required Client Information

SAMPLE ID
One Character per box.
(A-Z, 0-9 / ,-)
Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL WP
WIPE	AR
AIR	OT
OTHER	TS
TISSUE	

ITEM #	Section D SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Filtered (Y/N)	Requested Analysis: VOLATILES	SV,PEST,HERBS	D-METALS	T-METALS	FLUORIDE	BOD	NH3,COD,NO3,T-PHOS	CL,SO4,TDS,TSS,pH	Residual Chlorine (Y/N)	Pace Project Number / Lab I.D.
1	SW-North Sump (020207)	WT		020207	0815				3	7	1	1	1			1	1										20499680
2	SW-North Pond (020207)	WT		"	0830				3	7	1	1	1			1	1										681
3	SW-Pond A (020207)	WT		"	0925				3	7	1	1	1			1	1										682
4	SW-Discharge Pond A (020207)	WT		"	0935				3	7	1	1	1			1	1										683
5	SW-Pond C (020207)	WT		020207	0935				3	7	1	1	1			1	1										684
6	SW-Pond B- (020207)	WT		"	0955				3	7	1	1	1			1	1										685
7	SW-Disp-02 (020207)	WT		"	020207				3	7	1	1	1			1	1										686
8																											
9																											
10																											
11																											
12																											

Additional Comments:

MDEQ Tier 1 TRG Detection Limits

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
George E. Lock	02-02-07	1630	Dana Thomas PM	2/2/07	1630
Dana Thomas	2/2/07	1820	KHPope / PM	2/2/07	1820

SAMPLE CONDITIONS

Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
4.4	Y/N	Y/N	Y/N
2.6	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: George E Lock

SIGNATURE of SAMPLER: George E Lock

DATE Signed (MM / DD / YY): 02/02/07

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

2066467

Page: 2 of 2

Section A Required Client Information:

Company: ARCADIS	
Address: 10352 Plaza Americana Drive	
Baton Rouge, Louisiana 70816	
Email To: Craig.Derouen@arcadis-us.com; Jane.Kennedy@arcadis-us.com	
Phone: (225) 292-1004 Fax: (225) 218-9677	
Requested Due Date/TAT:	

Section B Required Project Information:

Report To: Craig Derouen	
Copy To: Jane Kennedy	
Purchase Order No.:	
Project Name: MS Bluffs (Vicksburg, MS)	
Project Number: LA002656.0001	

Section C Invoice Information:

Attention: ARCADIS - Accounts Payable	
Company Name: ARCADIS	
Address: 10352 Plaza Americana; Baton Rouge, LA 70819	
Pace Quote Reference:	
Pace Project Manager: Cindy Olavesen	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER MDEQ TRGs

SITE LOCATION: ☐ GA ☐ IL ☐ IN ☐ M ☐ NC ☐ OH ☐ SC ☑ W ☐ OTHER MS

Section D Required Client Information

SAMPLE ID
One Character per box.
(A-Z, 0-9 / ,-)
Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL WP
WIPE	AR
AIR	OT
OTHER	TS
TISSUE	

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Filtered (Y/N)	Requested Analysis: VOLATILES	SV,PEST,HERBS	D-METALS	T-METALS	FLUORIDE	BOD	NH3,COD,NO3,T-PHOS	CL,SO4,TDS,TSS,pH	Residual Chlorine (Y/N)	Pace Project Number / Lab I.D.
1	SW-13(020107)	WT	G	02-01-07	1816	02-01-07													3	7	1	1	1		1	1		2649458
2	SW-09(020107)	WT	G	02-01-07	1820	02-01-07													3	7	1	1	1		1	1		514
3	SW-14(020107)	WT	G	02-01-07	1835	02-01-07													3	7	1	1	1		1	1		520
4	SW-12(020107)	WT	G	02-01-07	1845	02-01-07													3	7	1	1	1		1	1		501
5	SW-Dup-01(020107)	WT	G	02-01-07	—	02-01-07	—												3	7	1	1	1		1	1		501
6	TB-SW-01(020107)	WT	G	02-01-07	—																							9708
7																												
8																												
9																												
10																												
11																												
12																												

Additional Comments:

MDEQ Tier 1 TRG Detection Limits

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
George E Cook/Arcadis	02/02/07	1630	[signature] Pace	2/2/07	1630
[signature]	2/2/07	1820	KAP - Pace	2/2/07	1820

SAMPLE CONDITIONS

Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
3.4 / 3.6	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: George E Cook

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM / DD / YY): 02/01/07

Cooler Range
2.4° - 2.6°

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Cooler # 10 2066467

Page: 1 of 2

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: ARCADIS	Report To: Craig Derouen	Attention: ARCADIS - Accounts Payable
Address: 10352 Plaza Americana Drive	Copy To: Jane Kennedy	Company Name: ARCADIS
Baton Rouge, Louisiana 70816		Address: 10352 Plaza Americana; Baton Rouge, LA 70819
Email To: Craig.Derouen@arcadis-us.com; Jane.Kennedy@arcadis-us.com	Purchase Order No.:	Pace Quote Reference:
Phone: (225) 292-1004 Fax: (225) 218-9677	Project Name: MS Bluffs (Vicksburg, MS)	Pace Project Manager: Cindy Olavesen
Requested Due Date/TAT:	Project Number: LA002656.0001	Pace Profile #:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER MDEQ TRGs

SITE LOCATION: GA IL IN MI NC OH SC W OTHER MS

Section D Required Client Information

SAMPLE ID

One Character per box. (A-Z, 0-9 / ,-)
Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analyses: VOLATILES (4pt)	SV, PEST, HERBS	D-METALS	T-METALS	FLUORIDE	BOD	NH3, COD, NO3, T-PHOS	CL, SO4, TDS, TSS, pH	Residual Chlorine (Y/N)	Pace Project Number / Lab I.D.
1	SW-01(020107)	WT	G	02-01-07	1415	02-01-07	1435	45.7 (F)	15	10	1	1	3					3	7	1	1	1		1	1		20499500
2	SW-03(020107)	WT	G	"	1445	"	1455		"	"	1	1	3					3	7	1	1	1		1	1		505
3	SW-04(020107)	WT	G	"	1500	"			"	"	1	1	3					3	7	1	1	1		1	1		508
4	SouthSump(020107)	WT	G	"	1510	"			"	"	1	1	3														515
5	SW-05(020107)	WT	G	02-01-07	1540	02-01-07			"	10	1	1	3														509
6	SW-06(020107)	WT	G	"	1600	"			15	"	1	1	3														511
7	SW-02(020107)	WT	G	"	1605	"			"	"	1	1	3														510
8	SW-07(020107)	WT	G	"	1615	"			"	"	1	1	3														512
9	SW-08(020107)	WT	G	02-01-07	1640	02-01-07			"	"	1	1	3														513
10	SW-15(020107)	WT	G	"	1730	"			"	"	1	1	3														514
11	SW-10(020107)	WT	G	"	1800	"			"	10	1	1	3														516
12	SW-11(020107)	WT	G	"	1810	"			"	"	1	1	3														517

Additional Comments:

MDEQ Tier 1 TRG Detection Limits

VOC's are included in BOD cooler # ~~20~~ 35

Job # for storm water is LA002565.0001.00014, make separate report from GW.

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
George E Cook	02-01-07	1630	[illegible] PACE	2/2/07	1630
[illegible]	2/2/07	1820	KARS Pace	2/2/07	1820

SAMPLE CONDITIONS

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
2-4/3.6	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: George E Cook

SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 02-01-07

ARCADIS

Laboratory Task Order No./P.O. No. _____ **CHAIN-OF-CUSTODY RECORD** Page 2 of 2

Project Number/Name Miss Bluffs / LA002656.0001.00014

Project Location Vicks Burg, MS

Laboratory PACE

Project Manager Craig Dercan

Sampler(s)/Affiliation G. Cook, J. Dolan, C. Fontenot

cooler #34

2066467

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE: BOD	2 complete/4°C					Remarks	Total
SW-12 (020107)	L	02-01-07 1845		1						2049521	1
SW-Dup-01 (020107)	L	02-01-07		1						501	1
SW-North Sump (020207)	L	02-02-07 0815		1						680	1
SW-North Pond (020207)	L	0830		1						681	1
SW-Pond A (020207)	L	0925		1						683	1
SW-Discharge Pond A (020207)	L	0935		1						683	1
SW-Pond C (020207)	L	0935		1						684	1
SW-Pond B (020207)	L	0955		1						685	1
SW-Dup-02 (020207)	L	02-02-07		1						686	1
										Total pS 1	15
										Total pj 2	9
										Total No. of Bottles/ Containers	24

Sample Matrix: L = Liquid; S = Solid; A = Air

Relinquished by: George E Cook	Organization: Arcadis	Date 02/02/07	Time 1630	Seal Intact?	
Received by:	Organization: PACE	Date 2/2/07	Time 1630	Yes	No N/A
Relinquished by:	Organization: PACE	Date 2/2/07	Time 1820	Seal Intact?	
Received by: KMR	Organization: PACE	Date 2/2/07	Time 1820	Yes	No N/A

Special Instructions/Remarks:

BOD's collected 02/02/07 and in Cooler #3 2.4-2.6

Delivery Method: ☐ In Person ☐ Common Carrier _____ SPECIFY ☐ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

ARCADIS

Laboratory Task Order No./P.O. No. _____ **CHAIN-OF-CUSTODY RECORD** Page 1 of 2

Project Number/Name Miss Bluff / LA000265.0001.00014

Project Location Vicksburg, MS.

Laboratory PACE

Project Manager Chris Devereux

Sampler(s)/Affiliation G. Cook, I. Irchay, C. Fontenot

Cooler #34

2066467

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE: BOD	250ml plastic / 4°C					Remarks	Total
SW-01 (020107)	L	02-01-07 1415		1						20499500	1
SW-03 (020107)	L	1445		1						505	1
SW-04 (020107)	L	1500		1						508	1
South Sump (020107)	L	1510		1						515	1
SW-05 (020107)	L	1540		1						509	1
SW-06 (020107)	L	1600		1						511	1
SW-02 (020107)	L	1605		1						510	1
SW-07 (020107)	L	1615		1						512	1
SW-08 (020107)	L	1640		1						513	1
SW-15 (020107)	L	1730		1						514	1
SW-10 (020107)	L	1800		1						516	1
SW-11 (020107)	L	1810		1						517	1
SW-13 (020107)	L	1816		1						518	1
SW-09 (020107)	L	1820		1						519	1
SW-14 (020107)	L	1835		1						520	1
										Total No. of Bottles/ Containers	15

Sample Matrix: L = Liquid; S = Solid; A = Air

Relinquished by:	George E Cook	Organization:	Arcadis	Date 02/02/07	Time 1630	Seal Intact?
Received by:	[signature] PM	Organization:	Pace	Date 2/2/07	Time 1630	(Yes) No N/A
Relinquished by:	[signature]	Organization:	Pace	Date 2/2/07	Time 1820	Seal Intact?
Received by:	[signature]	Organization:	Pace	Date 2/2/07	Time 1820	(Yes) No N/A

Special Instructions/Remarks:

BOD's collected on 2/2/07 are in Cooler #35 2.4 +/- 2.6°

Delivery Method: ☒ In Person ☐ Common Carrier _____ SPECIFY ☒ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

ARCADIS

ANALYTICAL DATA VALIDATION CHECKLIST **Former Vicksburg Chemical Company**

SDG NUMBER (s)	**2066467**		
Sample Date(s):	02/01/07 and 02/02/07		
Sample Team:	ARCADIS		
Sample Matrix:	Water		
Analyzing Laboratories:	Pace Analytical Services (New Orleans, Asheville, and Charlotte)		
Analyses: Project-Specific Compound Lists:	**USEPA Methods:**		
	8260 (VOCs)	8151 (Herbicides)	325.3 (Chloride)
	8270 (SVOCs)	8081 (Pesticides)	353.2 (Nitrate-Nitrite)
	410.4 (COD)	6010 (Metals)	350.1 (Ammonia)
	375.4 (Sulfate)	405.1(BOD)	365.4 (Phosphorus)
	340.2 (Fluoride)	160.1 (TDS)	160.2 (TSS)
Report Content Level:	Contract Laboratory Program (CLP) Type including raw data		

ARCADIS U.S., Inc.
1340 Poydras Street
Suite 2150
New Orleans, LA 70112
Tel 504 525 9925
Fax 504 525 9847

ENVIRONMENT

Project Number:
LA002656.0001.00018

Review of field data, field notes, and sampling logs was conducted separately. Analytical data were evaluated in accordance with applicable USEPA method-specific criteria and/or laboratory Standard Operating Procedures (SOPs), "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review" (July 2002), "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review" (October 1999), "Quality Assurance Project Plan" (September 2006), the analytical laboratory Quality Assurance (QA) control limits, "Site Baseline Sampling Work Plan" (January 2007), and professional judgment.

This data verification was performed at a **Level 2** and included review of data package completeness, laboratory control samples and method blanks, surrogate and matrix spike recoveries, holding time compliance, field duplicate precision, and field Quality Control (QC) sample evaluation. Only QA/QC results and analytical data associated with analytes/compounds of interest were reviewed for this validation.

The data package review included analytical results and associated QC data for all samples in the listed Sample Delivery Group(s) unless otherwise noted.

The following samples were included in this Validation:

SDG	Sample ID	Sample Type	Sample Collection Date	Parent Sample
2066467	SW-01	Water	02/01/07	
2066467	SW-DUP-01	Water	02/01/07	SW-01
2066467	SW-03	Water	02/01/07	
2066467	SW-04	Water	02/01/07	
2066467	SW-05	Water	02/01/07	
2066467	SW-02	Water	02/01/07	
2066467	SW-06	Water	02/01/07	
2066467	SW-07	Water	02/01/07	
2066467	SW-08	Water	02/01/07	
2066467	SW-15	Water	02/01/07	
2066467	SOUTH SUMP	Water	02/01/07	
2066467	SW-10	Water	02/01/07	
2066467	SW-11	Water	02/01/07	
2066467	SW-13	Water	02/01/07	
2066467	SW-09	Water	02/01/07	
2066467	SW-14	Water	02/01/07	
2066467	SW-12	Water	02/01/07	
2066467	SW-NORTH SUMP(020207)	Water	02/02/07	
2066467	SW-NORTH POND(020207)	Water	02/02/07	
2066467	SW-POND A (020207)	Water	02/02/07	
2066467	SW-DISCHARGE POND A (020207)	Water	02/02/07	
2066467	SW-POND C (020207)	Water	02/02/07	
2066467	SW-POND B (020207)	Water	02/02/07	
2066467	SW-DUP-02 (020207)	Water	02/02/07	SW-DISCHARGE POND A (020207)
2066467	TRIP BLANK	Water	02/01/07	

ANALYTICAL DATA PACKAGE DOCUMENTATION

GENERAL INFORMATION

Item Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt information		X		X	
2. Sample results		X		X	
3. Parameters analyzed		X		X	
4. Methods of analysis		X		X	
5. Reporting limits of analysis		X		X	
6. Master tracking list		X		X	
7. Sample collection date		X		X	
8. Laboratory sample received date		X		X	
9. Sample preservation		X		X	
10. Sample preparation/extraction date		X		X	
11. Sample analysis date		X		X	
12. Copy of Chain-of-Custody form signed by laboratory sample custodian		X		X	
13. Narrative summary of QA or sample problems provided		X		X	

QA - Quality Assurance

Comments:

All samples referenced in this report were analyzed by various divisions of Pace Analytical Services.

Performance was acceptable, with the following exceptions and/or notes:

5. The laboratory reported values between the Method Detection Limit (MDL) and the Reporting Limit (RL) as estimated. If the compound was not detected, the analytical report lists the result as non-detect at the quantitative reporting limit.

   The MDLs for Acetophenone, Bromodichloromethane, Chloroform, Dibromochloromethane, 4-Nitrophenol, and Pentachlorophenol were greater than the Groundwater Tier 1 Target Remediation Goals (TRGs).

VOLATILE ORGANIC COMPOUNDS

Item Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
1. Holding Times		X		X	
2. Reporting Limits		X		X	
3. Blanks					
A. Method Blanks		X	X		
B. Equipment Blanks	X				X
C. Field Blanks	X				X
D. Trip Blanks		X		X	
4. Laboratory Control Sample (LCS)		X	X		
5. LCS Duplicate(LCSD)	X				X
6. LCS/LCSD Precision (RPD)	X				X
7. Matrix Spike (MS) %R		X	X		
8. MS Duplicate (MSD) %R		X	X		
9. MS/MSD Precision (RPD)		X		X	
10. Surrogate Spike Recoveries		X	X		
11. Field Duplicate Comparison		X			

%R - percent recovery RPD - relative percent difference

Comments:

This section presents the review of USEPA Method 8260 Volatile Organic Compounds (VOCs). Performance was acceptable, with the following exceptions and/or notes:

3A. Methylene Chloride was detected in the method blank for Batch 81944. The associated field samples were non-detect for Methylene Chloride. No qualification is necessary.

Acetone was detected in the method blank for Batch 81996. The associated field samples are qualified as non-detect if the sample concentration is less than ten times the blank value.

4. The recovery of Vinyl Acetate was above the control limit in LCS20499735. The associated field samples were non-detect for Vinyl Acetate. No qualification is necessary.

The recoveries of Acetone, Methylene Chloride, and Vinyl Acetate were above the control limit in LCS20499988. The associated field samples were non-detect for Methylene Chloride and Vinyl Acetate. No qualification is necessary. All detections of Acetone in the associated field samples are qualified as estimated.

VOLATILE ORGANIC COMPOUNDS (continued)

The recoveries of Acetone, Methylene Chloride, and Vinyl Acetate were above the control limit in LCS20499946. The associated field samples were non-detect for Vinyl Acetate and qualified as non-detect for Acetone due to blank contamination. No qualification is necessary. All detections of Methylene Chloride in the associated field samples are qualified as estimated.

7-9. SW-11 was utilized as a site-specific MS/MSD. The recoveries of Methylene Chloride, Acetone, and Vinyl Acetate were above the control limit in the MS and the MSD. The associated field samples were non-detect for Vinyl Acetate and qualified as non-detect for Acetone due to blank contamination. No qualification is necessary. The associated field samples were already qualified as estimated for Methylene Chloride due to the LCS recovery. Further qualification of the data is not necessary.

10. One surrogate recovery was above the control limit in SW-02, SW-07, and South Sump. SW-02 was non-detect for all VOCs. No qualification is necessary. Acetone was detected in SW-07 and South Sump and is qualified as estimated.

One surrogate recovery was above the control limit in SW-14, SW-12, and SW-Pond B (020207). All detections in the associated field samples are qualified as estimated.

11. SW-DUP-01 was collected as a field duplicate of SW-01. The RPDs were acceptable at non-detect.

SW-DUP-02(020207) was collected as a field duplicate of SW-DISCHARGE POND A(020207). The RPDs were acceptable.

SEMIVOLATILE ORGANIC COMPOUNDS

Item Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
1. Holding Times					
A. Extraction Holding Time		X		X	
B. Analysis Holding Time		X		X	
2. Reporting Limits		X		X	
3. Blanks					
A. Method Blanks		X		X	
B. Equipment Blanks	X				X
C. Field Blanks	X				X
4. Laboratory Control Sample (LCS)		X		X	
5. LCS Duplicate (LCSD)	X				X
6. LCS/LCSD Precision (RPD)	X				X
7. Matrix Spike (MS) %R		X		X	
8. MS Duplicate (MSD) %R		X		X	
9. MS/MSD Precision (RPD)		X		X	
10. Surrogate Spike Recoveries		X	X		
11. Field Duplicate Comparison		X	X		

%R - percent recovery RPD - relative percent difference

Comments:

The following section was reviewed and completed for USEPA Method 8270 Semivolatile Organic Compounds (SVOCs). Performance was acceptable, with the following exceptions and/or notes:

Notes:

The laboratory case narrative noted that 3-Methylphenol and 4-Methylphenol were reported as 4-Methylphenol due to coelusion.

The laboratory case narrative noted that N-Nitrosodiphenylamine is reported as Diphenylamine because of decomposition of N-Nitrosodiphenylamine.

10. One surrogate recovery was below the control limit in SW-06. Only one surrogate was out. No qualification is necessary.

The Phenol-d5 surrogate recovery was less than 10% (1%) in the initial analysis of SW-14. The sample was re-extracted and re-analyzed with comparable results and Phenol-d5 surrogate failure which confirmed matrix interference. The other acid surrogate recoveries were in control. The results associated with this surrogate are qualified as estimated.

SEMIVOLATILE ORGANIC COMPOUNDS (continued)

11. SW-DUP-01 was collected as a field duplicate of SW-01. The RPDs were acceptable at non-detect.

SW-DUP-02(020207) was collected as a field duplicate of SW-DISCHARGE POND A(020207). The RPD for Bis(2-ethylhexyl)phthalate was above the control limit. The parent and the duplicate are qualified as estimated.

PESTICIDES AND HERBICIDES

Item reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
1. Holding Times		X		X	
2. Reporting Limits		X		X	
3. Blanks					
A. Method Blanks		X		X	
B. Equipment Blanks	X				
C. Field Blanks	X				
4. Laboratory Control Sample (LCS)		X	X		
5. LCS Duplicate (LCSD)	X				X
6. LCS/LCSD Precision (RPD)	X				X
7. Matrix Spike (MS) %R		X	X		
8. MS Duplicate (MSD) %R		X		X	
9. MS/MSD Precision (RPD)		X	X		
10. Surrogate Spike Recoveries		X	X		
11. Field Duplicate Comparison		X		X	

%R - percent recovery RPD - relative percent difference

Comments:

The following section was reviewed and completed for USEPA Method 8151 (Herbicides) and Method 8081 (Pesticides). Performance was acceptable, with the following exceptions and/or notes:

2. SW-08, SW-13, and SW-12 were analyzed at dilutions for Dinoseb due to elevated concentrations.

4. The LCS recovery for Batch 82113 was (0%) for Dinoseb. The recovery of Dinoseb was above the control limit in the MS. The RPD for Dinoseb was also above the control limit. The associated field samples are qualified as rejected based on professional judgment.

   Toxaphene is not spiked in the LCS.

7-9. SW-North Sump (020207) was utilized as a site-specific MS/MSD for Batch 82113. The recovery of Dinoseb was above the control limit in the MS. The RPD was also above the control limit. The associated field samples were qualified as rejected due to the LCS recovery. Further qualification of the data is not necessary.

10. The surrogate was diluted out in the 100x dilution of SW-12. Dinoseb is qualified as estimated in SW-12.

    The surrogate recovery was above the control limit on the primary column for SW-11. Dinoseb was reported from the confirmation column. No qualification is necessary.

PESTICIDES AND HERBICIDES (continued)

11. SW-DUP-01 was collected as a field duplicate of SW-01. The RPDs were acceptable at non-detect.

SW-DUP-02(020207) was collected as a field duplicate of SW-DISCHARGE POND A(020207). The RPDs were acceptable.

METALS

Item Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
1. Holding Times		X		X	
2. Reporting Limits		X		X	
3. Blanks					
A. Method Blanks		X		X	
B. Equipment Blanks	X				X
C. Field Blanks	X				X
4. Laboratory Control Sample (LCS)		X		X	
5. LCS Duplicate (LCSD)	X				X
6. LCS/LCSD Precision (RPD)	X				X
7. Matrix Spike (MS) %R		X		X	
8. MS Duplicate (MSD) %R		X		X	
9. MS/MSD Precision (RPD)		X		X	
10. Total and Dissolved Metals Comparison		X	X		
11. Field Duplicate Comparison		X		X	

%R - percent recovery RPD - relative percent difference

Comments:

The following section was reviewed and completed for USEPA Method 6010 (Total and Dissolved Arsenic). Performance was acceptable, with the following exceptions and/or notes:

7-9. SW-07 was utilized as a site-specific MS/MSD. The recoveries and RPDs were acceptable.

10. The Total Arsenic results were less than the Dissolved Arsenic results for SW-01, SW-DUP01, SW-10, SW-North Pond (020207), SW-DUP-02(020207), SW-04, SW-15, SW-12, and SW-Pond B (020207). The percent difference (%D) was greater than 10%. The Total and Dissolved Arsenic results in the above samples are qualified as estimated.

11. SW-DUP-01 was collected as a field duplicate of SW-01. The RPDs were acceptable.

SW-DUP-02(020207) was collected as a field duplicate of SW-DISCHARGE POND A(020207). The RPDs were acceptable.

WET CHEMISTRY

Item Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
1. Holding Times		X		X	
2. Reporting Limits		X		X	
3. Blanks					
A. Method Blanks		X		X	
B. Equipment Blanks	X				X
C. Field Blanks	X				X
4. Laboratory Control Sample (LCS)		X		X	
5. LCS Duplicate (LCSD)	X				X
6. LCS/LCSD Precision (RPD)	X				X
7. Matrix Spike (MS) %R		X	X		
8. MS Duplicate (MSD) %R		X	X		
9. MS/MSD Precision (RPD)		X	X		
10. Laboratory Duplicate Comparison		X	X		
11. Field Duplicate Comparison		X	X		

%R - percent recovery RPD - relative percent difference

Comments:

The following section was reviewed and completed for Methods 410.4 (Chemical Oxygen Demand [COD]), 375.4 (Sulfate), 340.2 (Fluoride), 405.1(Biological Oxygen Demand [BOD]), 160.1 (Total Dissolved Solids [TDS]), 325.3 (Chloride), 353.2 (Nitrate-Nitrite), 350.1 (Ammonia), 365.4 (Phosphorus), and 160.2 (Total Suspended Solids [TSS]). Performance was acceptable, with the following exceptions and/or notes:

2. Several samples required dilutions for Ammonia, Nitrate-Nitrite, Sulfate and Phosphorus due to elevated concentrations.

7-9. SW-13 was utilized as a site-specific MS/MSD for COD. The recoveries and RPD were acceptable.

SW-01 and SW-11 were utilized as site-specific MS/MSDs for Chloride. The recovery of Chloride was above the control limit in the MS for Sample SW-11 and the recovery of Chloride was above the control limit in the MS and the MSD for Sample SW-01. All detections of Chloride in the associated field samples are qualified as estimated.

SW-01 and SW-Pond A (020207) were utilized as site-specific MS/MSDs for Sulfate. The recovery of Sulfate in the MS and the MSD for both samples was below 10%. Based on professional judgment, all field samples are qualified as estimated for Sulfate.

SW-North Sump (020207) was utilized as a site-specific MS/MSD for Nitrate-Nitrite. The recoveries and RPD were acceptable.

WET CHEMISTRY (continued)

SW-01 and SW-Discharge Pond A (020207) were utilized as a site-specific MS/MSD for Phosphorous. The recoveries and RPDs were acceptable.

SW-03 and SW-North Pond (020207) were utilized as a site-specific MS/MSD for Ammonia. The recovery of Ammonia was below the control limit in the MS and the MSD for both samples. All associated field samples are qualified as estimated for Ammonia.

10. SW-01 and SW-Pond C (020207) were used as the laboratory duplicates for TSS. The RPD for TSS was above the control limit in SW-Pond C (020207). SW-Pond C (020207) is qualified as estimated for TSS.

SW-01 and SW-13 were used as the laboratory duplicates for TDS. The RPDs were acceptable.

11. SW-DUP-01 was collected as a field duplicate of SW-01. The RPDs for Nitrate-Nitrite, Ammonia, and Sulfate were above the control limit. The parent and the duplicate are qualified as estimated for Nitrate-Nitrite, Ammonia, and Sulfate.

SW-DUP-02(020207) was collected as a field duplicate of SW-DISCHARGE POND A(020207). The RPDs for Ammonia and TSS were above the control limit. The parent and the duplicate are qualified as estimated.

VALIDATION QUALIFICATION SUMMARY

Data values presented in the following table were qualified due to QC deficiencies. The table indicates compounds/analytes qualified based on validation reviews conducted in accordance with the Level of review referenced on page 1 of this checklist. Refer to the associated method section of the validation checklist for a detailed explanation of qualification. All other data are considered quantitative.

The following data qualifiers with applicable definitions were applied in this data validation:

UB - compound/analyte detected in blank or associated blank.

J - the analyte was positively identified, but the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - the analyte was not detected above the reporting limit; however, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R - the sample result is rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria, and the presence or absence of the analyte cannot be verified.

All other data satisfy validation criteria and are considered to be quantitative.

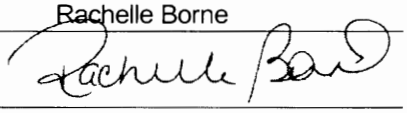
Sample ID	Parameter	Result	Units	Qualifier	Reason
SW-06	Acetone	22.4	µg/L	J	LCS Recovery
	Chloride	18.1	mg/L	J	MS/MSD Recovery
	Ammonia	<0.100	mg/L	UJ	MS/MSD Recovery
SW-07	Acetone	15.7	µg/L	J	LCS Recovery Surrogate Recovery
	Chloride	19.7	mg/L	J	MS/MSD Recovery
	Ammonia	0.157	mg/L	J	MS/MSD Recovery
SW-08	Acetone	14.4	µg/L	J	LCS Recovery
	Chloride	23.0	mg/L	J	MS/MSD Recovery
SW-08	Ammonia	535.0	mg/L	J	MS/MSD Recovery
SW-15	Acetone	26.9	µg/L	J	LCS Recovery
	Total Arsenic	8.58	µg/L	J	Total vs. Dissolved Metals
	Dissolved Arsenic	15.5	µg/L	J	Total vs. Dissolved Metals
	Chloride	37.8	mg/L	J	MS/MSD Recovery
	Ammonia	2.01	mg/L	J	MS/MSD Recovery
South Sump	Acetone	24.3	µg/L	J	LCS Recovery Surrogate Recovery
	Chloride	16.4	mg/L	J	MS/MSD Recovery

Sample ID	Parameter	Result	Units	Qualifier	Reason
	Ammonia	<0.100	mg/L	UJ	MS/MSD Recovery
SW-10	Acetone	30.9	µg/L	J	LCS Recovery
	Chloride	146.0	mg/L	J	MS/MSD Recovery
	Ammonia	<0.100	mg/L	UJ	MS/MSD Recovery
SW-11	Acetone	23.3	µg/L	UB	Blank Contamination
	Methylene Chloride	32.3	µg/L	J	LCS Recovery
	Chloride	23.0	mg/L	J	MS/MSD Recovery
	Ammonia	0.143	mg/L	J	MS/MSD Recovery
SW-13	Acetone	22.7	µg/L	UB	Blank Contamination
	Methylene Chloride	27.6	µg/L	J	LCS Recovery
	Chloride	19.7	mg/L	J	MS/MSD Recovery
	Ammonia	49.8	mg/L	J	MS/MSD Recovery
SW-09	Acetone	16.0	µg/L	UB	Blank Contamination
	Methylene Chloride	25.0	µg/L	J	LCS Recovery
	Chloride	18.1	mg/L	J	MS/MSD Recovery
	Ammonia	0.136	mg/L	J	MS/MSD Recovery
SW-14	Acetone	23.9	µg/L	UB	Blank Contamination
	Methylene Chloride	26.5	µg/L	J	LCS Recovery Surrogate Recovery
	Bromodichloromethane	13.2	µg/L	J	Surrogate Recovery
	Chloroform	19.2	µg/L	J	Surrogate Recovery
	Dibromochloromethane	11.2	µg/L	J	Surrogate Recovery
	Chloride	26.3	mg/L	J	MS/MSD Recovery
	Ammonia	0.102	mg/L	J	MS/MSD Recovery
SW-12	Acetone	21.7	µg/L	UB	Blank Contamination
	Methylene Chloride	29.5	µg/L	J	LCS Recovery Surrogate Recovery
	Total Arsenic	<10.0	µg/L	J	Total vs. Dissolved Metals
	Dissolved Arsenic	8.47	µg/L	J	Total vs. Dissolved Metals
	Chloride	16.4	mg/L	J	MS/MSD Recovery
	Ammonia	0.207	mg/L	J	MS/MSD Recovery
SW-Discharge Pond A	Methylene Chloride	23.6	µg/L	J	LCS Recovery
	Dinoseb	18.7	µg/L	R	LCS Recovery
	Bis(2-ethylhexyl)phthalate	13.6	µg/L	J	Field Duplicate RPD
	Ammonia	1.92	mg/L	J	Field Duplicate RPD
	TSS	5.0	mg/L	J	Field Duplicate RPD
	Chloride	23.0	mg/L	J	MS/MSD Recovery
	Ammonia	1.92	mg/L	J	MS/MSD Recovery

Sample ID	Parameter	Result	Units	Qualifier	Reason
SW-North Sump(020207)	Acetone	22.0	µg/L	UB	Blank Contamination
	Methylene Chloride	21.6	µg/L	J	LCS Recovery
	Dinoseb	<2.0	µg/L	R	LCS Recovery
	Chloride	19.7	mg/L	J	MS/MSD Recovery
	Ammonia	<0.100	mg/L	UJ	MS/MSD Recovery
SW-North Pond(020207)	Acetone	33.8	µg/L	UB	Blank Contamination
	Methylene Chloride	22.4	µg/L	J	LCS Recovery
	Dinoseb	<2.0	µg/L	R	LCS Recovery
	Total Arsenic	8.42	µg/L	J	Total vs. Dissolved Metals
	Dissolved Arsenic	18.8	µg/L	J	Total vs. Dissolved Metals
	Chloride	18.1	mg/L	J	MS/MSD Recovery
	Ammonia	<0.100	mg/L	UJ	MS/MSD Recovery
SW-Pond A(020207)	Acetone	14.8	µg/L	UB	Blank Contamination
	Methylene Chloride	27.7	µg/L	J	LCS Recovery
	Dinoseb	15.1	µg/L	R	LCS Recovery
	Chloride	18.1	mg/L	J	MS/MSD Recovery
	Ammonia	0.937	mg/L	J	MS/MSD Recovery
SW-Pond C(020207)	Acetone	18.8	µg/L	UB	Blank Contamination
	Methylene Chloride	25.0	µg/L	J	LCS Recovery
	Dinoseb	14.4	µg/L	R	LCS Recovery
	Chloride	23.0	mg/L	J	MS/MSD Recovery
	Ammonia	6.14	mg/L	J	MS/MSD Recovery
SW-Pond B(020207)	Acetone	31.6	µg/L	UB	Blank Contamination
	Methylene Chloride	31.5	µg/L	J	LCS Recovery Surrogate Recovery
	Chloroform	0.690	µg/L	J	Surrogate Recovery
	Trichloroethene	2.32	µg/L	J	Surrogate Recovery
	Dinoseb	21.3	µg/L	R	LCS Recovery
	Total Arsenic	19.3	µg/L	J	Total vs. Dissolved Metals
	Dissolved Arsenic	34.5	µg/L	J	Total vs. Dissolved Metals
	Chloride	19.7	mg/L	J	MS/MSD Recovery
	Ammonia	2.18	mg/L	J	MS/MSD Recovery
SW-DUP-02(020207)	Acetone	20.5	µg/L	UB	Blank Contamination
SW-DUP-02(020207)	Methylene Chloride	27.8	µg/L	J	LCS Recovery
	Dinoseb	21.8	µg/L	R	LCS Recovery
	Total Arsenic	18.7	µg/L	J	Total vs. Dissolved Metals
	Dissolved Arsenic	26.3	µg/L	J	Total vs. Dissolved Metals
	Bis(2-ethylhexyl)phthalate	<10.0	µg/L	UJ	Field Duplicate RPD
	Ammonia	3.41	mg/L	J	Field Duplicate RPD
	TSS	9.0	mg/L	J	Field Duplicate RPD
	Chloride	28.0	mg/L	J	MS/MSD Recovery
	Ammonia	3.41	mg/L	UJ	MS/MSD Recovery

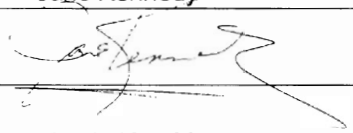
Sample ID	Parameter	Result	Units	Qualifier	Reason
SW-14	4-Nitrophenol	<10.0	µg/L	UJ	Surrogate Recovery
	Pentachlorophenol	<10.0	µg/L	UJ	Surrogate Recovery
SW-01	Total Arsenic	19.6	µg/L	J	Total vs. Dissolved Metals
	Dissolved Arsenic	25.6	µg/L	J	Total vs. Dissolved Metals
	Nitrate-Nitrite	0.879	mg/L	J	Field Duplicate RPD
	Ammonia	0.113	mg/L	J	Field Duplicate RPD
	Sulfate	1.07	mg/L	J	Field Duplicate RPD
	Chloride	18.1	mg/L	J	MS/MSD Recovery
	Ammonia	0.113	mg/L	J	MS/MSD Recovery
SW-DUP-01	Total Arsenic	21.9	µg/L	J	Total vs. Dissolved Metals
	Dissolved Arsenic	27.6	µg/L	J	Total vs. Dissolved Metals
	Chloride	19.7	mg/L	J	MS/MSD Recovery
	Ammonia	<0.100	mg/L	UJ	MS/MSD Recovery
SW-10	Total Arsenic	20.0	µg/L	J	Total vs. Dissolved Metals
	Nitrate-Nitrite	23.4	mg/L	J	Field Duplicate RPD
	Ammonia	<0.100	mg/L	UJ	Field Duplicate RPD
	Sulfate	<1.0	mg/L	UJ	Field Duplicate RPD
	Dissolved Arsenic	31.0	µg/L	J	Total vs. Dissolved Metals
SW-04	Total Arsenic	18.2	µg/L	J	Total vs. Dissolved Metals
	Dissolved Arsenic	24.5	µg/L	J	Total vs. Dissolved Metals
	Chloride	18.1	mg/L	J	MS/MSD Recovery
	Ammonia	0.272	mg/L	J	MS/MSD Recovery
SW-03	Chloride	23.0	mg/L	J	MS/MSD Recovery
	Ammonia	0.110	mg/L	J	MS/MSD Recovery
SW-05	Chloride	19.7	mg/L	J	MS/MSD Recovery
	Ammonia	<0.100	mg/L	UJ	MS/MSD Recovery
SW-02	Chloride	18.1	mg/L	J	MS/MSD Recovery
	Ammonia	<0.100	mg/L	UJ	MS/MSD Recovery

VALIDATION PERFORMED BY: Rachelle Borne

SIGNATURE: 

DATE: March 18, 2007

PEER REVIEW: Jane Kennedy

SIGNATURE: 

DATE: March 19, 2007

Pace Analytical®
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LELAP # 02006

March 08, 2007

Craig Derouen
Arcadis Geraghty & Miller
10352 Plaza Americana Drive
Baton Rouge, LA 70816

RE: Project: 2066632
RE: Project ID: MS BLUFFS/LA

Dear Craig Derouen:

Enclosed are the analytical results for sample(s) received by the laboratory on February 08, 2007. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Cindy Olavesen

Cindy Olavesen

ACCREDITED IN ACCORDANCE WITH nelac

REPORT OF LABORATORY ANALYSIS

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LELAP # 02006

Pace Analytical®
New Orleans Laboratory

Report of Laboratory Analysis

Project Number: 2066632

ACCREDITED IN ACCORDANCE WITH nelac

3/8/2007 14:21:03

Pace Analytical®
New Orleans Laboratory

Sample Cross Reference Report

Pace Analytical Services, Inc.
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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Project: MS BLUFFS/LA

Project No.: 2066632

Sample ID	Lab ID	Matrix	Collection Date/Time		Received Date/Time	
PZ-25B (020607)	20500667	Water	02/06/2007	08:43	02/08/2007	08:30
MW14 (020607)	20500668	Water	02/06/2007	10:15	02/08/2007	08:30
MW16 (020607)	20500669	Water	02/06/2007	12:42	02/08/2007	08:30
MW8 (020607)	20500670	Water	02/06/2007	15:45	02/08/2007	08:30
MW17A (020607)	20500671	Water	02/07/2007	08:30	02/08/2007	08:30
MW17B (020707)	20500672	Water	02/07/2007	09:18	02/08/2007	08:30
MW18A (020707)	20500673	Water	02/07/2007	10:55	02/08/2007	08:30
MW18B (020707)	20500674	Water	02/07/2007	11:20	02/08/2007	08:30
MW1A (020707)	20500675	Water	02/07/2007	13:40	02/08/2007	08:30
MW1A (020707)MS	20500675	Water	02/07/2007	13:40	02/08/2007	08:30
MW1A (020707)MSD	20500675	Water	02/07/2007	13:40	02/08/2007	08:30
MW1C (020707)	20500676	Water	02/07/2007	15:00	02/08/2007	08:30
RRUW (020707)	20500677	Water	02/07/2007	15:50	02/08/2007	08:30
RB01 (020707)	20500678	Water	02/07/2007	07:40	02/08/2007	08:30
TB (020607)	20500679	Water	02/06/2007		02/08/2007	08:30
DUP 02 (020707)	20500695	Water	02/07/2007		02/08/2007	08:30
MW-9 (020607)	20500740	Water	02/06/2007	14:22	02/08/2007	08:30

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Kansas Dept. of Health Environment - E-10266
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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: **2066632**

Narrative detail for GC semi-volatilves analyses:

Several of the herbicide continuing calibrations were high biased for dinoseb on one of the GC columns for batches 82113 and 82241.

The majority of associated samples had no hits for dinoseb. Results for samples with confirmed hits were based on the unbiased column.

Sample 20500667 was re-extracted due to low surrogate recoveries. The re-extraction was performed outside the holding time limit.

Surrogate recoveries for the re-analysis were within QC limits. There was no Dinoseb detected in either analysis.

Dinoseb recovery from the LCS associated with the re-extraction was very poor.

Dinoseb is a poor performer by this method; QC recovery data may be poor or erratic as demonstrated by performance-based statistical evaluation.

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Project Narrative

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LELAP # 02006

Project: **2066632**

Sample Receipt Condition:

All samples were received in accordance with EPA protocol.

Holding Times:

All holding times were met.

Blanks:

All blank results were below reporting limits.

Laboratory Control Samples:

LCS recoveries outside of QC limits are qualified in the Report of Quality Control section.

Matrix Spikes and Duplicates:

MS or MSD recoveries outside of QC limits are qualified in the Report of Quality Control section.

Surrogates:

Surrogate recoveries outside of QC limits are qualified in the surrogate results section.

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Project Narrative

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Project: 2066632

Analytical Method	Batch	Sample used for QC
EPA 8151	82113	
EPA 8081	82217	Project sample MW1A (020707)
EPA 8151	82241	Project sample MW1A (020707)
EPA 8151	82761	Batch sample from another client
EPA 6010	82183	Project sample MW1A (020707)
EPA 6010	82344	Project sample MW1A (020707)
EPA 8270	82160	Batch sample from another client
EPA 8270	82240	Project sample MW1A (020707)
EPA 8260	82231	Project sample MW1A (020707)
EPA 8260	82231	Project sample MW1A (020707)

For the sample used as the original for the DUP or MS/MSD for the batch:

Project sample means a sample from this project was used.
Client sample means a sample from the same client but in a different project was used.
Batch sample means a sample from the a different client was used.

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Report of Laboratory Analysis

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-25B (020607) **Site:** None

Project: MS BLUFFS/LA **Project No.:** 2066632 **Sample Qu:**

Lab ID: 20500667 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82231

Method: 8260 VOAs Unpreserved **Units:** ug/L **Target List:** 8260U WL20

Collected: 02/06/07 **Received:** 02/08/07

Prep Factor: 1 **Prepared:** 02/11/07 **Analyzed:** 02/11/07 14:43 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	0.890 J		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

3/8/2007 14:21:39

ND denotes Not Detected at or above the adjusted reporting limit.
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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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Report of Laboratory Analysis

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-25B (020607) **Site:** None

Project: MS BLUFFS/LA **Project No.:** 2066632 **Sample Qu:**

Lab ID: 20500667 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82231

Method: 8260 VOAs Unpreserved **Units:** ug/L **Target List:** 8260U WL20

Collected: 02/06/07 **Received:** 02/08/07

Prep Factor: 1 **Prepared:** 02/11/07 **Analyzed:** 02/11/07 14:43 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	2.42	J A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

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Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-25B (020607) **Site:** None

Project: MS BLUFFS/LA **Project No.:** 2066632 **Sample Qu:**

Lab ID: 20500667 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82160

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 02/06/07 **Received:** 02/08/07

Prep Factor: 1 **Prepared:** 02/10/07 **Analyzed:** 02/12/07 16:47 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW14 (020607) **Site:** None

Project: MS BLUFFS/LA **Project No.:** 2066632 **Sample Qu:**

Lab ID: 20500668 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82231

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/06/07 **Received:** 02/08/07

Prep Factor: 1 **Prepared:** 02/11/07 **Analyzed:** 02/11/07 15:03 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW14 (020607)
Site: None
Project: MS BLUFFS/LA
Project No.: 2066632
Sample Qu:
Lab ID: 20500668
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 82231
Method: 8260 VOAs Water
Units: ug/L
Target List: 8260_WL20
Collected: 02/06/07
Received: 02/08/07
Prep Factor: 1
Prepared: 02/11/07
Analyzed: 02/11/07 15:03 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	1.70	J A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW14 (020607) **Site:** None

Project: MS BLUFFS/LA **Project No.:** 2066632 **Sample Qu:**

Lab ID: 20500668 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82160

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 02/06/07 **Received:** 02/08/07

Prep Factor: 1 **Prepared:** 02/10/07 **Analyzed:** 02/12/07 17:17 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
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1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW16 (020607) **Site:** None

Project: MS BLUFFS/LA **Project No.:** 2066632 **Sample Qu:**

Lab ID: 20500669 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82231

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/06/07 **Received:** 02/08/07

Prep Factor: 1 **Prepared:** 02/11/07 **Analyzed:** 02/11/07 15:22 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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ND denotes Not Detected at or above the adjusted reporting limit.
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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW16 (020607) | **Site:** None

Project: MS BLUFFS/LA | **Project No.:** 2066632 | **Sample Qu:**

Lab ID: 20500669 | **Matrix:** Water | **% Moisture:** n/a

Description: None | **Prep Level:** Water | **Batch:** 82231

Method: 8260 VOAs Water | **Units:** ug/L | **Target List:** 8260_WL20

Collected: 02/06/07 | **Received:** 02/08/07

Prep Factor: 1 | **Prepared:** 02/11/07 | **Analyzed:** 02/11/07 15:22 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	1.05	J A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW16 (020607) | **Site:** None

Project: MS BLUFFS/LA | **Project No.:** 2066632 | **Sample Qu:**

Lab ID: 20500669 | **Matrix:** Water | **% Moisture:** n/a

Description: None | **Prep Level:** Water | **Batch:** 82160

Method: 8270 SVOAs Water | **Units:** ug/L | **Target List:** 8270_WL20

Collected: 02/06/07 | **Received:** 02/08/07

Prep Factor: 1 | **Prepared:** 02/10/07 | **Analyzed:** 02/12/07 17:47 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW8 (020607) **Site:** None

Project: MS BLUFFS/LA **Project No.:** 2066632 **Sample Qu:**

Lab ID: 20500670 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82231

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/06/07 **Received:** 02/08/07

Prep Factor: 1 **Prepared:** 02/11/07 **Analyzed:** 02/11/07 15:41 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW8 (020607) **Site:** None

Project: MS BLUFFS/LA **Project No.:** 2066632 **Sample Qu:**

Lab ID: 20500670 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82231

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/06/07 **Received:** 02/08/07

Prep Factor: 1 **Prepared:** 02/11/07 **Analyzed:** 02/11/07 15:41 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	ND	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW8 (020607) **Site:** None

Project: MS BLUFFS/LA **Project No.:** 2066632 **Sample Qu:**

Lab ID: 20500670 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82160

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 02/06/07 **Received:** 02/08/07

Prep Factor: 1 **Prepared:** 02/10/07 **Analyzed:** 02/12/07 16:19 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW17A (020607) **Site:** None

Project: MS BLUFFS/LA **Project No.:** 2066632 **Sample Qu:**

Lab ID: 20500671 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82231

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/07/07 **Received:** 02/08/07

Prep Factor: 1 **Prepared:** 02/11/07 **Analyzed:** 02/11/07 16:39 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW17A (020607) **Site:** None

Project: MS BLUFFS/LA **Project No.:** 2066632 **Sample Qu:**

Lab ID: 20500671 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82231

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/07/07 **Received:** 02/08/07

Prep Factor: 1 **Prepared:** 02/11/07 **Analyzed:** 02/11/07 16:39 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	ND	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

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DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW17A (020607) **Site:** None

Project: MS BLUFFS/LA **Project No.:** 2066632 **Sample Qu:**

Lab ID: 20500671 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82240

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 02/07/07 **Received:** 02/08/07

Prep Factor: 1 **Prepared:** 02/13/07 **Analyzed:** 02/14/07 15:06 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW17B (020707) **Site:** None

Project: MS BLUFFS/LA **Project No.:** 2066632 **Sample Qu:**

Lab ID: 20500672 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82231

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/07/07 **Received:** 02/08/07

Prep Factor: 1 **Prepared:** 02/11/07 **Analyzed:** 02/11/07 16:58 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW17B (020707) **Site:** None

Project: MS BLUFFS/LA **Project No.:** 2066632 **Sample Qu:**

Lab ID: 20500672 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82231

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/07/07 **Received:** 02/08/07

Prep Factor: 1 **Prepared:** 02/11/07 **Analyzed:** 02/11/07 16:58 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	ND	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

3/8/2007 14:21:41

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW17B (020707) **Site:** None

Project: MS BLUFFS/LA **Project No.:** 2066632 **Sample Qu:**

Lab ID: 20500672 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82240

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 02/07/07 **Received:** 02/08/07

Prep Factor: 1 **Prepared:** 02/13/07 **Analyzed:** 02/14/07 17:20 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: MW18A (020707) **Site:** None

Project: MS BLUFFS/LA **Project No.:** 2066632 **Sample Qu:**

Lab ID: 20500673 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82231

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/07/07 **Received:** 02/08/07

Prep Factor: 1 **Prepared:** 02/11/07 **Analyzed:** 02/11/07 17:17 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW18A (020707) **Site:** None

Project: MS BLUFFS/LA **Project No.:** 2066632 **Sample Qu:**

Lab ID: 20500673 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82231

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/07/07 **Received:** 02/08/07

Prep Factor: 1 **Prepared:** 02/11/07 **Analyzed:** 02/11/07 17:17 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	ND	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

3/8/2007 14:21:41

ND denotes Not Detected at or above the adjusted reporting limit.
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Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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New Orleans Laboratory

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Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW18A (020707) **Site:** None

Project: MS BLUFFS/LA **Project No.:** 2066632 **Sample Qu:**

Lab ID: 20500673 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82240

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 02/07/07 **Received:** 02/08/07

Prep Factor: 1 **Prepared:** 02/13/07 **Analyzed:** 02/14/07 17:46 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW18B (020707) **Site:** None

Project: MS BLUFFS/LA **Project No.:** 2066632 **Sample Qu:**

Lab ID: 20500674 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82231

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/07/07 **Received:** 02/08/07

Prep Factor: 1 **Prepared:** 02/11/07 **Analyzed:** 02/11/07 17:36 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	134.		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW18B (020707) **Site:** None

Project: MS BLUFFS/LA **Project No.:** 2066632 **Sample Qu:**

Lab ID: 20500674 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82231

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/07/07 **Received:** 02/08/07

Prep Factor: 1 **Prepared:** 02/11/07 **Analyzed:** 02/11/07 17:36 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	ND	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	201.		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	76.4		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	139.		0.151	5.00	
95-47-6	o-Xylene	1	67.1		0.142	5.00	

57 compound(s) reported

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW18B (020707) **Site:** None

Project: MS BLUFFS/LA **Project No.:** 2066632 **Sample Qu:**

Lab ID: 20500674 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82240

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 02/07/07 **Received:** 02/08/07

Prep Factor: 1 **Prepared:** 02/13/07 **Analyzed:** 02/14/07 15:32 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW1A (020707) **Site:** None

Project: MS BLUFFS/LA **Project No.:** 2066632 **Sample Qu:**

Lab ID: 20500675 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82231

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/07/07 **Received:** 02/08/07

Prep Factor: 1 **Prepared:** 02/11/07 **Analyzed:** 02/11/07 17:56 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	0.660 J		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW1A (020707) **Site:** None

Project: MS BLUFFS/LA **Project No.:** 2066632 **Sample Qu:**

Lab ID: 20500675 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82231

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/07/07 **Received:** 02/08/07

Prep Factor: 1 **Prepared:** 02/11/07 **Analyzed:** 02/11/07 17:56 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	ND	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	6.95		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW1A (020707) **Site:** None

Project: MS BLUFFS/LA **Project No.:** 2066632 **Sample Qu:**

Lab ID: 20500675 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82240

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 02/07/07 **Received:** 02/08/07

Prep Factor: 1 **Prepared:** 02/13/07 **Analyzed:** 02/14/07 14:39 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	16.0		1.37	10.0	

6 compound(s) reported

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Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW1A (020707)MS
Site: None
Project: MS BLUFFS/LA
Project No.: 2066632
Sample Qu:
Lab ID: 20500675MS
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 82231
Method: 8260 VOAs Water MS
Units: ug/L
Target List: 8260 MWL20
Collected: 02/07/07
Received: 02/08/07
Prep Factor: 1
Prepared: 02/11/07
Analyzed: 02/11/07 18:15 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	58.7	A11	5.90	10.0	
75-05-8	Acetonitrile	1	913.		12.5	100.	
107-02-8	Acrolein	1	68.2		9.10	20.0	
107-13-1	Acrylonitrile	1	167.		4.90	20.0	
107-05-1	Allyl chloride	1	89.9		1.56	10.0	
71-43-2	Benzene	1	44.4		0.117	5.00	
75-27-4	Bromodichloromethane	1	46.7		0.206	5.00	
75-25-2	Bromoform	1	60.5		0.259	5.00	
74-83-9	Bromomethane	1	33.6		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	61.2	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	38.5		0.257	5.00	
56-23-5	Carbon tetrachloride	1	45.7		0.592	5.00	
108-90-7	Chlorobenzene	1	47.6		0.119	5.00	
75-00-3	Chloroethane	1	29.6		0.647	5.00	
67-66-3	Chloroform	1	53.6		0.479	5.00	
74-87-3	Chloromethane	1	27.6		0.305	5.00	
126-99-8	Chloroprene	1	52.0		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	52.0		1.22	5.00	
124-48-1	Dibromochloromethane	1	51.3		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	61.7		0.669	5.00	
74-95-3	Dibromomethane	1	52.3		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	94.4		1.86	5.00	
75-34-3	1,1-Dichloroethane	1	49.3		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	49.1		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	49.7		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	50.2		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	45.9		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	50.0		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	50.0		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	1281		16.8	250.	
100-41-4	Ethylbenzene	1	42.7		0.119	5.00	
97-63-2	Ethyl methacrylate	1	114.		0.475	10.0	
591-78-6	2-Hexanone	1	61.7		0.468	10.0	

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1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW1A (020707)MS
Site: None
Project: MS BLUFFS/LA
Project No.: 2066632
Sample Qu:
Lab ID: 20500675MS
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 82231
Method: 8260 VOAs Water MS
Units: ug/L
Target List: 8260 MWL20
Collected: 02/07/07
Received: 02/08/07
Prep Factor: 1
Prepared: 02/11/07
Analyzed: 02/11/07 18:15 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
74-88-4	Iodomethane	1	53.2		0.621	5.00	
78-83-1	Isobutanol	1	1304		18.7	250.	
126-98-7	Methacrylonitrile	1	664.		16.2	100.	
75-09-2	Methylene chloride	1	63.5	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	116.		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	59.5		0.872	10.0	
107-12-0	Propionitrile	1	680.		6.35	20.0	
100-42-5	Styrene	1	49.1		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	50.6		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	52.8		0.238	5.00	
127-18-4	Tetrachloroethene	1	52.4		0.162	5.00	
108-88-3	Toluene	1	45.2		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	48.1		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	55.8		0.328	5.00	
79-01-6	Trichloroethene	1	55.7		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	46.5		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	58.1		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	45.7		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	43.4		0.0614	5.00	
108-05-4	Vinyl acetate	1	135.		0.686	10.0	
75-01-4	Vinyl chloride	1	27.2		0.463	5.00	
	m&p-Xylene	1	87.0		0.151	5.00	
95-47-6	o-Xylene	1	44.7		0.142	5.00	

56 compound(s) reported

3/8/2007 14:21:43

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U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW1A (020707)MS
Site: None
Project: MS BLUFFS/LA
Project No.: 2066632
Sample Qu:
Lab ID: 20500675MS
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 82240
Method: 8270 SVOAs Water MS
Units: ug/L
Target List: 8270 MWL20
Collected: 02/07/07
Received: 02/08/07
Prep Factor: 1
Prepared: 02/13/07
Analyzed: 02/14/07 13:46 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
117-81-7	bis(2-Ethylhexyl)phthalate	1	36.6		8.62	10.0	
100-02-7	4-Nitrophenol	1	41.0		1.33	10.0	
87-86-5	Pentachlorophenol	1	53.7		1.37	10.0	

3 compound(s) reported

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW1A (020707)MSD
Site: None
Project: MS BLUFFS/LA
Project No.: 2066632
Sample Qu:
Lab ID: 20500675MSD
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 82231
Method: 8260 VOAs Water MS
Units: ug/L
Target List: 8260 MWL20
Collected: 02/07/07
Received: 02/08/07
Prep Factor: 1
Prepared: 02/11/07
Analyzed: 02/11/07 18:34 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	62.4	A11	5.90	10.0	
75-05-8	Acetonitrile	1	864.		12.5	100.	
107-02-8	Acrolein	1	71.1		9.10	20.0	
107-13-1	Acrylonitrile	1	175.		4.90	20.0	
107-05-1	Allyl chloride	1	84.8		1.56	10.0	
71-43-2	Benzene	1	42.6		0.117	5.00	
75-27-4	Bromodichloromethane	1	46.7		0.206	5.00	
75-25-2	Bromoform	1	60.6		0.259	5.00	
74-83-9	Bromomethane	1	35.1		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	68.2	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	35.1		0.257	5.00	
56-23-5	Carbon tetrachloride	1	42.1		0.592	5.00	
108-90-7	Chlorobenzene	1	47.6		0.119	5.00	
75-00-3	Chloroethane	1	30.5		0.647	5.00	
67-66-3	Chloroform	1	52.1		0.479	5.00	
74-87-3	Chloromethane	1	29.0		0.305	5.00	
126-99-8	Chloroprene	1	50.7		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	51.1		1.22	5.00	
124-48-1	Dibromochloromethane	1	51.0		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	65.5		0.669	5.00	
74-95-3	Dibromomethane	1	54.3		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	91.7		1.86	5.00	
75-34-3	1,1-Dichloroethane	1	47.5		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	48.7		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	45.2		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	46.8		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	45.3		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	51.8		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	53.0		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	1656		16.8	250.	
100-41-4	Ethylbenzene	1	42.7		0.119	5.00	
97-63-2	Ethyl methacrylate	1	121.		0.475	10.0	
591-78-6	2-Hexanone	1	63.7		0.468	10.0	

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW1A (020707)MSD
Site: None
Project: MS BLUFFS/LA
Project No.: 2066632
Sample Qu:
Lab ID: 20500675MSD
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 82231
Method: 8260 VOAs Water MS
Units: ug/L
Target List: 8260 MWL20
Collected: 02/07/07
Received: 02/08/07
Prep Factor: 1
Prepared: 02/11/07
Analyzed: 02/11/07 18:34 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
74-88-4	Iodomethane	1	49.4		0.621	5.00	
78-83-1	Isobutanol	1	1484		18.7	250.	
126-98-7	Methacrylonitrile	1	707.		16.2	100.	
75-09-2	Methylene chloride	1	60.6	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	123.		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	59.8		0.872	10.0	
107-12-0	Propionitrile	1	739.		6.35	20.0	
100-42-5	Styrene	1	50.2		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	50.1		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	51.7		0.238	5.00	
127-18-4	Tetrachloroethene	1	50.2		0.162	5.00	
108-88-3	Toluene	1	45.3		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	45.5		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	56.0		0.328	5.00	
79-01-6	Trichloroethene	1	55.4		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	46.2		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	55.5		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	45.0		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	42.7		0.0614	5.00	
108-05-4	Vinyl acetate	1	139.		0.686	10.0	
75-01-4	Vinyl chloride	1	28.0		0.463	5.00	
	m&p-Xylene	1	87.8		0.151	5.00	
95-47-6	o-Xylene	1	45.2		0.142	5.00	

56 compound(s) reported

3/8/2007 14:21:43

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW1A (020707)MSD
Site: None
Project: MS BLUFFS/LA
Project No.: 2066632
Sample Qu:
Lab ID: 20500675MSD
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 82240
Method: 8270 SVOAs Water MS
Units: ug/L
Target List: 8270 MWL20
Collected: 02/07/07
Received: 02/08/07
Prep Factor: 1
Prepared: 02/13/07
Analyzed: 02/14/07 14:12 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
117-81-7	bis(2-Ethylhexyl)phthalate	1	56.4		8.62	10.0	
100-02-7	4-Nitrophenol	1	34.7		1.33	10.0	
87-86-5	Pentachlorophenol	1	52.0		1.37	10.0	

3 compound(s) reported

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW1C (020707) **Site:** None

Project: MS BLUFFS/LA **Project No.:** 2066632 **Sample Qu:**

Lab ID: 20500676 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82231

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/07/07 **Received:** 02/08/07

Prep Factor: 1 **Prepared:** 02/11/07 **Analyzed:** 02/11/07 18:53 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	0.850 J		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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Pace Analytical
New Orleans Laboratory

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW1C (020707) **Site:** None

Project: MS BLUFFS/LA **Project No.:** 2066632 **Sample Qu:**

Lab ID: 20500676 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82231

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/07/07 **Received:** 02/08/07

Prep Factor: 1 **Prepared:** 02/11/07 **Analyzed:** 02/11/07 18:53 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	ND	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	11.2		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

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New Orleans Laboratory

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1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW1C (020707)
Site: None
Project: MS BLUFFS/LA
Project No.: 2066632
Sample Qu:
Lab ID: 20500676
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 82240
Method: 8270 SVOAs Water
Units: ug/L
Target List: 8270_WL20
Collected: 02/07/07
Received: 02/08/07
Prep Factor: 1
Prepared: 02/13/07
Analyzed: 02/14/07 18:13 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: RRUW (020707) **Site:** None

Project: MS BLUFFS/LA **Project No.:** 2066632 **Sample Qu:**

Lab ID: 20500677 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82231

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/07/07 **Received:** 02/08/07

Prep Factor: 1 **Prepared:** 02/11/07 **Analyzed:** 02/11/07 19:12 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	0.730 J		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: RRUW (020707) **Site:** None

Project: MS BLUFFS/LA **Project No.:** 2066632 **Sample Qu:**

Lab ID: 20500677 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82231

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/07/07 **Received:** 02/08/07

Prep Factor: 1 **Prepared:** 02/11/07 **Analyzed:** 02/11/07 19:12 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	ND	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	2.56	J	0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: RRUW (020707) **Site:** None

Project: MS BLUFFS/LA **Project No.:** 2066632 **Sample Qu:**

Lab ID: 20500677 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82240

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 02/07/07 **Received:** 02/08/07

Prep Factor: 1 **Prepared:** 02/13/07 **Analyzed:** 02/14/07 15:59 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	20.3		1.37	10.0	

6 compound(s) reported

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: RB01 (020707) **Site:** None

Project: MS BLUFFS/LA **Project No.:** 2066632 **Sample Qu:**

Lab ID: 20500678 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82231

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/07/07 **Received:** 02/08/07

Prep Factor: 1 **Prepared:** 02/11/07 **Analyzed:** 02/11/07 19:31 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	9.85 J	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: RB01 (020707) **Site:** None

Project: MS BLUFFS/LA **Project No.:** 2066632 **Sample Qu:**

Lab ID: 20500678 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82231

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/07/07 **Received:** 02/08/07

Prep Factor: 1 **Prepared:** 02/11/07 **Analyzed:** 02/11/07 19:31 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	ND	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0681
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Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health .Environment - E-10266
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Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: RB01 (020707) **Site:** None

Project: MS BLUFFS/LA **Project No.:** 2066632 **Sample Qu:**

Lab ID: 20500678 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82240

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 02/07/07 **Received:** 02/08/07

Prep Factor: 1 **Prepared:** 02/13/07 **Analyzed:** 02/14/07 18:40 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: TB (020607) **Site:** None

Project: MS BLUFFS/LA **Project No.:** 2066632 **Sample Qu:**

Lab ID: 20500679 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82231

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/06/07 **Received:** 02/08/07

Prep Factor: 1 **Prepared:** 02/11/07 **Analyzed:** 02/11/07 16:00 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: TB (020607) | **Site:** None

Project: MS BLUFFS/LA | **Project No.:** 2066632 | **Sample Qu:**

Lab ID: 20500679 | **Matrix:** Water | **% Moisture:** n/a

Description: None | **Prep Level:** Water | **Batch:** 82231

Method: 8260 VOAs Water | **Units:** ug/L | **Target List:** 8260_WL20

Collected: 02/06/07 | **Received:** 02/08/07

Prep Factor: 1 | **Prepared:** 02/11/07 | **Analyzed:** 02/11/07 16:00 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	3.40	J A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: DUP 02 (020707)
Site: None
Project: MS BLUFFS/LA
Project No.: 2066632
Sample Qu:
Lab ID: 20500695
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 82231
Method: 8260 VOAs Water
Units: ug/L
Target List: 8260_WL20
Collected: 02/07/07
Received: 02/08/07
Prep Factor: 1
Prepared: 02/11/07
Analyzed: 02/11/07 19:51 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	0.760 J		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: DUP 02 (020707) | **Site:** None

Project: MS BLUFFS/LA | **Project No.:** 2066632 | **Sample Qu:**

Lab ID: 20500695 | **Matrix:** Water | **% Moisture:** n/a

Description: None | **Prep Level:** Water | **Batch:** 82231

Method: 8260 VOAs Water | **Units:** ug/L | **Target List:** 8260_WL20

Collected: 02/07/07 | **Received:** 02/08/07

Prep Factor: 1 | **Prepared:** 02/11/07 | **Analyzed:** 02/11/07 19:51 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	ND	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	10.1		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: DUP 02 (020707) **Site:** None

Project: MS BLUFFS/LA **Project No.:** 2066632 **Sample Qu:**

Lab ID: 20500695 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82240

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 02/07/07 **Received:** 02/08/07

Prep Factor: 1 **Prepared:** 02/13/07 **Analyzed:** 02/14/07 19:07 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	10.1		1.37	10.0	

6 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-9 (020607) **Site:** None

Project: MS BLUFFS/LA **Project No.:** 2066632 **Sample Qu:**

Lab ID: 20500740 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82231

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/06/07 **Received:** 02/08/07

Prep Factor: 1 **Prepared:** 02/11/07 **Analyzed:** 02/11/07 16:20 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	0.610 J		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-9 (020607)
Site: None
Project: MS BLUFFS/LA
Project No.: 2066632
Sample Qu:
Lab ID: 20500740
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 82231
Method: 8260 VOAs Water
Units: ug/L
Target List: 8260_WL20
Collected: 02/06/07
Received: 02/08/07
Prep Factor: 1
Prepared: 02/11/07
Analyzed: 02/11/07 16:20 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	ND	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-9 (020607)
Site: None
Project: MS BLUFFS/LA
Project No.: 2066632
Sample Qu:
Lab ID: 20500740
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 82160
Method: 8270 SVOAs Water
Units: ug/L
Target List: 8270_WL20
Collected: 02/06/07
Received: 02/08/07
Prep Factor: 1
Prepared: 02/10/07
Analyzed: 02/12/07 18:17 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: PZ-25B (020607) | **Site:** None

Project: MS BLUFFS/LA | **Project No.:** 2066632 | **Sample Qu:**

Lab ID: 20500667 | **Matrix:** Water | **% Moisture:** n/a

Description: None | **Prep Level:** Water | **Batch:** 82217

Method: 8081 Pests Water | **Units:** ug/L | **Target List:** 8081_WL20

Collected: 02/06/07 | **Received:** 02/08/07

Prep Factor: 1 | **Prepared:** 02/10/07 | **Analyzed:** 02/15/07 17:23 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: PZ-25B (020607) **Site:** None

Project: MS BLUFFS/LA **Project No.:** 2066632 **Sample Qu:**

Lab ID: 20500667 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82113

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 02/06/07 **Received:** 02/08/07

Prep Factor: 1 **Prepared:** 02/12/07 **Analyzed:** 02/22/07 19:17 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND	N	0.224	2.00	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: PZ-25B (020607) **Site:** None

Project: MS BLUFFS/LA **Project No.:** 2066632 **Sample Qu:**

Lab ID: 20500667RE1 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82761

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 02/06/07 **Received:** 02/08/07

Prep Factor: 1 **Prepared:** 02/26/07 **Analyzed:** 03/02/07 09:29 SPPL (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND	N	0.224	2.00	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: MW14 (020607)
Site: None
Project: MS BLUFFS/LA
Project No.: 2066632
Sample Qu:
Lab ID: 20500668
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 82217
Method: 8081 Pests Water
Units: ug/L
Target List: 8081_WL20
Collected: 02/06/07
Received: 02/08/07
Prep Factor: 1
Prepared: 02/10/07
Analyzed: 02/15/07 17:40 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: MW14 (020607)
Site: None
Project: MS BLUFFS/LA
Project No.: 2066632
Sample Qu:
Lab ID: 20500668
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 82113
Method: 8151 Herbs Water
Units: ug/L
Target List: 8151_WL20
Collected: 02/06/07
Received: 02/08/07
Prep Factor: 1
Prepared: 02/12/07
Analyzed: 02/22/07 19:45 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND	N	0.224	2.00	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: MW16 (020607) **Site:** None

Project: MS BLUFFS/LA **Project No.:** 2066632 **Sample Qu:**

Lab ID: 20500669 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82217

Method: 8081 Pests Water **Units:** ug/L **Target List:** 8081_WL20

Collected: 02/06/07 **Received:** 02/08/07

Prep Factor: 1 **Prepared:** 02/10/07 **Analyzed:** 02/15/07 17:56 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW16 (020607)
Site: None
Project: MS BLUFFS/LA
Project No.: 2066632
Sample Qu:
Lab ID: 20500669
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 82113
Method: 8151 Herbs Water
Units: ug/L
Target List: 8151_WL20
Collected: 02/06/07
Received: 02/08/07
Prep Factor: 1
Prepared: 02/12/07
Analyzed: 02/22/07 20:12 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND	N	0.224	2.00	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: MW8 (020607)
Site: None
Project: MS BLUFFS/LA
Project No.: 2066632
Sample Qu:
Lab ID: 20500670
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 82217
Method: 8081 Pests Water
Units: ug/L
Target List: 8081 WL20
Collected: 02/06/07
Received: 02/08/07
Prep Factor: 1
Prepared: 02/10/07
Analyzed: 02/19/07 18:00 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW8 (020607) **Site:** None

Project: MS BLUFFS/LA **Project No.:** 2066632 **Sample Qu:**

Lab ID: 20500670 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82113

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 02/06/07 **Received:** 02/08/07

Prep Factor: 1 **Prepared:** 02/12/07 **Analyzed:** 02/22/07 20:40 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND	N	0.224	2.00	

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
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3/8/2007 14:21:50

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW17A (020607) **Site:** None

Project: MS BLUFFS/LA **Project No.:** 2066632 **Sample Qu:**

Lab ID: 20500671 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82217

Method: 8081 Pests Water **Units:** ug/L **Target List:** 8081_WL20

Collected: 02/07/07 **Received:** 02/08/07

Prep Factor: 1 **Prepared:** 02/10/07 **Analyzed:** 02/15/07 18:45 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW17A (020607)
Site: None
Project: MS BLUFFS/LA
Project No.: 2066632
Sample Qu:
Lab ID: 20500671
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 82241
Method: 8151 Herbs Water
Units: ug/L
Target List: 8151_WL20
Collected: 02/07/07
Received: 02/08/07
Prep Factor: 1
Prepared: 02/14/07
Analyzed: 02/23/07 05:21 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND	N	0.224	2.00	

1 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW17B (020707)
Site: None
Project: MS BLUFFS/LA
Project No.: 2066632
Sample Qu:
Lab ID: 20500672
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 82217
Method: 8081 Pests Water
Units: ug/L
Target List: 8081_WL20
Collected: 02/07/07
Received: 02/08/07
Prep Factor: 1
Prepared: 02/10/07
Analyzed: 02/15/07 19:02 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: MW17B (020707)
Site: None
Project: MS BLUFFS/LA
Project No.: 2066632
Sample Qu:
Lab ID: 20500672
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 82241
Method: 8151 Herbs Water
Units: ug/L
Target List: 8151_WL20
Collected: 02/07/07
Received: 02/08/07
Prep Factor: 1
Prepared: 02/14/07
Analyzed: 02/23/07 05:49 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND	N	0.224	2.00	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: MW18A (020707) **Site:** None

Project: MS BLUFFS/LA **Project No.:** 2066632 **Sample Qu:**

Lab ID: 20500673 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82217

Method: 8081 Pests Water **Units:** ug/L **Target List:** 8081_WL20

Collected: 02/07/07 **Received:** 02/08/07

Prep Factor: 1 **Prepared:** 02/10/07 **Analyzed:** 02/15/07 19:18 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

3/8/2007 14:21:50

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
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Client: Arcadis Geraghty & Miller

Client ID: MW18A (020707) **Site:** None

Project: MS BLUFFS/LA **Project No.:** 2066632 **Sample Qu:**

Lab ID: 20500673 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82241

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 02/07/07 **Received:** 02/08/07

Prep Factor: 1 **Prepared:** 02/14/07 **Analyzed:** 02/23/07 06:16 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND	N	0.224	2.00	

1 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW18B (020707)
Site: None
Project: MS BLUFFS/LA
Project No.: 2066632
Sample Qu:
Lab ID: 20500674
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 82217
Method: 8081 Pests Water
Units: ug/L
Target List: 8081_WL20
Collected: 02/07/07
Received: 02/08/07
Prep Factor: 1
Prepared: 02/10/07
Analyzed: 02/15/07 19:35 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW18B (020707)
Site: None
Project: MS BLUFFS/LA
Project No.: 2066632
Sample Qu:
Lab ID: 20500674
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 82241
Method: 8151 Herbs Water
Units: ug/L
Target List: 8151_WL20
Collected: 02/07/07
Received: 02/08/07
Prep Factor: 1
Prepared: 02/14/07
Analyzed: 02/23/07 06:43 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND	N	0.224	2.00	

1 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW1A (020707) **Site:** None

Project: MS BLUFFS/LA **Project No.:** 2066632 **Sample Qu:**

Lab ID: 20500675 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82217

Method: 8081 Pests Water **Units:** ug/L **Target List:** 8081_WL20

Collected: 02/07/07 **Received:** 02/08/07

Prep Factor: 1 **Prepared:** 02/10/07 **Analyzed:** 02/15/07 19:51 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW1A (020707) **Site:** None

Project: MS BLUFFS/LA **Project No.:** 2066632 **Sample Qu:**

Lab ID: 20500675 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82241

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 02/07/07 **Received:** 02/08/07

Prep Factor: 1 **Prepared:** 02/14/07 **Analyzed:** 02/23/07 07:11 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	10	32.2	D1,N	2.24	20.0	

1 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW1A (020707)MS
Site: None
Project: MS BLUFFS/LA
Project No.: 2066632
Sample Qu:
Lab ID: 20500675MS
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 82241
Method: 8151 Herbs Water MS
Units: ug/L
Target List: 8151 MWL20
Collected: 02/07/07
Received: 02/08/07
Prep Factor: 1
Prepared: 02/14/07
Analyzed: 02/23/07 07:38 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	30.7	Q1	0.224	2.00	

1 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW1A (020707)MSD
Site: None
Project: MS BLUFFS/LA
Project No.: 2066632
Sample Qu:
Lab ID: 20500675MSD
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 82241
Method: 8151 Herbs Water MS
Units: ug/L
Target List: 8151 MWL20
Collected: 02/07/07
Received: 02/08/07
Prep Factor: 1
Prepared: 02/14/07
Analyzed: 02/23/07 08:06 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	28.5	Q3	0.224	2.00	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: MW1C (020707)
Site: None
Project: MS BLUFFS/LA
Project No.: 2066632
Sample Qu:
Lab ID: 20500676
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 82217
Method: 8081 Pests Water
Units: ug/L
Target List: 8081_WL20
Collected: 02/07/07
Received: 02/08/07
Prep Factor: 1
Prepared: 02/10/07
Analyzed: 02/15/07 20:41 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

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DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW1C (020707) **Site:** None

Project: MS BLUFFS/LA **Project No.:** 2066632 **Sample Qu:**

Lab ID: 20500676 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82241

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 02/07/07 **Received:** 02/08/07

Prep Factor: 1 **Prepared:** 02/14/07 **Analyzed:** 02/24/07 15:11 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	10	23.5	D1	2.24	20.0	

1 compound(s) reported

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DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: RRUW (020707) | **Site:** None

Project: MS BLUFFS/LA | **Project No.:** 2066632 | **Sample Qu:**

Lab ID: 20500677 | **Matrix:** Water | **% Moisture:** n/a

Description: None | **Prep Level:** Water | **Batch:** 82217

Method: 8081 Pests Water | **Units:** ug/L | **Target List:** 8081_WL20

Collected: 02/07/07 | **Received:** 02/08/07

Prep Factor: 1 | **Prepared:** 02/10/07 | **Analyzed:** 02/15/07 20:57 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: RRUW (020707) **Site:** None

Project: MS BLUFFS/LA **Project No.:** 2066632 **Sample Qu:**

Lab ID: 20500677 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82241

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 02/07/07 **Received:** 02/08/07

Prep Factor: 1 **Prepared:** 02/14/07 **Analyzed:** 02/23/07 09:56 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	10	57.7	D1,N	2.24	20.0	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: RB01 (020707) **Site:** None

Project: MS BLUFFS/LA **Project No.:** 2066632 **Sample Qu:**

Lab ID: 20500678 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82217

Method: 8081 Pests Water **Units:** ug/L **Target List:** 8081_WL20

Collected: 02/07/07 **Received:** 02/08/07

Prep Factor: 1 **Prepared:** 02/10/07 **Analyzed:** 02/15/07 21:13 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: RB01 (020707) **Site:** None

Project: MS BLUFFS/LA **Project No.:** 2066632 **Sample Qu:**

Lab ID: 20500678 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82241

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 02/07/07 **Received:** 02/08/07

Prep Factor: 1 **Prepared:** 02/14/07 **Analyzed:** 02/23/07 10:23 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND	N	0.224	2.00	

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Client: Arcadis Geraghty & Miller

Client ID: DUP 02 (020707)
Site: None
Project: MS BLUFFS/LA
Project No.: 2066632
Sample Qu:
Lab ID: 20500695
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 82217
Method: 8081 Pests Water
Units: ug/L
Target List: 8081_WL20
Collected: 02/07/07
Received: 02/08/07
Prep Factor: 1
Prepared: 02/10/07
Analyzed: 02/15/07 21:30 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
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For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
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Client: Arcadis Geraghty & Miller

Client ID: DUP 02 (020707) | **Site:** None

Project: MS BLUFFS/LA | **Project No.:** 2066632 | **Sample Qu:**

Lab ID: 20500695 | **Matrix:** Water | **% Moisture:** n/a

Description: None | **Prep Level:** Water | **Batch:** 82241

Method: 8151 Herbs Water | **Units:** ug/L | **Target List:** 8151_WL20

Collected: 02/07/07 | **Received:** 02/08/07

Prep Factor: 1 | **Prepared:** 02/14/07 | **Analyzed:** 02/24/07 17:42 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	10	29.2	D1	2.24	20.0	

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Client: Arcadis Geraghty & Miller

Client ID: MW-9 (020607)
Site: None
Project: MS BLUFFS/LA
Project No.: 2066632
Sample Qu:
Lab ID: 20500740
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 82217
Method: 8081 Pests Water
Units: ug/L
Target List: 8081_WL20
Collected: 02/06/07
Received: 02/08/07
Prep Factor: 1
Prepared: 02/10/07
Analyzed: 02/15/07 18:29 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: MW-9 (020607) **Site:** None

Project: MS BLUFFS/LA **Project No.:** 2066632 **Sample Qu:**

Lab ID: 20500740 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82113

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 02/06/07 **Received:** 02/08/07

Prep Factor: 1 **Prepared:** 02/12/07 **Analyzed:** 02/22/07 21:07 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND	N	0.224	2.00	

1 compound(s) reported

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For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
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LELAP # 02006

Client ID: PZ-25B (020607)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA
Site: None
Lab ID: 20500667
Project No.: 2066632
Description: None
Matrix: Water **%Moisture:** n/a
Collected: 02/06/07 **Received:** 02/08/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
Arsenic	EPA 6010	82183	1	49.2		ug/L	6.05	10.0	02/09	02/17 04:23 KJR (1)	
Arsenic, Dissolved	EPA 6010	82344	1	35.7		ug/L	5.12	10.0	02/16	02/17 06:17 KJR (1)	

2 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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LELAP # 02006

Client ID: MW14 (020607)
Project: MS BLUFFS/LA
Lab ID: 20500668
Description: None

Client: Arcadis Geraghty & Miller
Site: None
Project No.: 2066632
Matrix: Water **%Moisture:** n/a
Collected: 02/06/07 **Received:** 02/08/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82183	1	38.8		ug/L	6.05	10.0	02/09	02/17 04:27	KJR (1)	
Arsenic, Dissolved	EPA 6010	82344	1	33.1		ug/L	5.12	10.0	02/16	02/17 06:22	KJR (1)	

2 parameter(s) reported

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Client ID: MW16 (020607)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA
Site: None
Lab ID: 20500669
Project No.: 2066632
Description: None
Matrix: Water
%Moisture: n/a
Collected: 02/06/07
Received: 02/08/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82183	1	20.7		ug/L	6.05	10.0	02/09	02/17 04:42	KJR (1)	
Arsenic, Dissolved	EPA 6010	82344	1	17.9		ug/L	5.12	10.0	02/16	02/17 06:27	KJR (1)	

2 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
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LELAP # 02006

Client ID: MW8 (020607)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA
Site: None
Lab ID: 20500670
Project No.: 2066632
Description: None
Matrix: Water
%Moisture: n/a
Collected: 02/06/07
Received: 02/08/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82183	1	166.		ug/L	6.05	10.0	02/09	02/17 04:46	KJR (1)	
Arsenic, Dissolved	EPA 6010	82344	1	55.4		ug/L	5.12	10.0	02/16	02/17 11:01	KJR (1)	

2 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
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Client ID: MW17A (020607)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA
Site: None
Lab ID: 20500671
Project No.: 2066632
Description: None
Matrix: Water
%Moisture: n/a
Collected: 02/07/07
Received: 02/08/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82183	1	18.8		ug/L	6.05	10.0	02/09	02/17 04:56	KJR (1)	
Arsenic, Dissolved	EPA 6010	82344	1	14.0		ug/L	5.12	10.0	02/16	02/17 11:13	KJR (1)	

2 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
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LELAP # 02006

Client ID: MW17B (020707)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA
Site: None
Lab ID: 20500672
Project No.: 2066632
Description: None
Matrix: Water
%Moisture: n/a
Collected: 02/07/07
Received: 02/08/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
Arsenic	EPA 6010	82183	1	33.1		ug/L	6.05	10.0	02/09	02/17 05:01 KJR (1)	
Arsenic, Dissolved	EPA 6010	82344	1	50.1		ug/L	5.12	10.0	02/16	02/17 11:17 KJR (1)	

2 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/8/2007 14:21:55

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health .Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: MW18A (020707)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA
Site: None
Lab ID: 20500673
Project No.: 2066632
Description: None
Matrix: Water
%Moisture: n/a
Collected: 02/07/07
Received: 02/08/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82183	1	109.		ug/L	6.05	10.0	02/09	02/17 05:07	KJR (1)	
Arsenic, Dissolved	EPA 6010	82344	1	61.0		ug/L	5.12	10.0	02/16	02/17 11:22	KJR (1)	

2 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/8/2007 14:21:56

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
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Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: MW18B (020707)
Project: MS BLUFFS/LA
Lab ID: 20500674
Description: None

Client: Arcadis Geraghty & Miller
Site: None
Project No.: 2066632
Matrix: Water **%Moisture:** n/a
Collected: 02/07/07 **Received:** 02/08/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82183	1	415.		ug/L	6.05	10.0	02/09	02/17 05:12	KJR (1)	
Arsenic, Dissolved	EPA 6010	82344	1	366.		ug/L	5.12	10.0	02/16	02/17 11:27	KJR (1)	

2 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
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3/8/2007 14:21:56

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: MW1A (020707)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA
Site: None
Lab ID: 20500675
Project No.: 2066632
Description: None
Matrix: Water
%Moisture: n/a
Collected: 02/07/07
Received: 02/08/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
Arsenic	EPA 6010	82183	1	17.3		ug/L	6.05	10.0	02/09	02/17 04:03 KJR (1)	
Arsenic, Dissolved	EPA 6010	82344	1	31.2		ug/L	5.12	10.0	02/16	02/17 05:56 KJR (1)	

2 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/8/2007 14:21:56

New Orleans Laboratory Certifications
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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: MW1A (020707)MS
Project: MS BLUFFS/LA
Lab ID: 20500675MS
Description: None

Client: Arcadis Geraghty & Miller
Site: None
Project No.: 2066632
Matrix: Water **%Moisture:** n/a
Collected: 02/07/07 **Received:** 02/08/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82183	1	1018		ug/L	6.05	10.0	02/09	02/17 04:08	KJR (1)	
Arsenic, Dissolved	EPA 6010	82344	1	902.		ug/L	5.12	10.0	02/16	02/17 06:01	KJR (1)	

2 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/8/2007 14:21:56

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0681
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St. Rose , LA 70087

Phone: 504.469.0333
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LELAP # 02006

Client ID: MW1A (020707)MSD
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA
Site: None
Lab ID: 20500675MSD
Project No.: 2066632
Description: None
Matrix: Water
%Moisture: n/a
Collected: 02/07/07
Received: 02/08/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82183	1	1000		ug/L	6.05	10.0	02/09	02/17 04:13	KJR (1)	
Arsenic, Dissolved	EPA 6010	82344	1	906.		ug/L	5.12	10.0	02/16	02/17 06:06	KJR (1)	

2 parameter(s) reported

3/8/2007 14:21:56

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
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New Orleans Laboratory Certifications
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Arkansas Dept. of Environmental Quality - 88-0661
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health .Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

Report of Laboratory Analysis

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: MW1C (020707)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA
Site: None
Lab ID: 20500676
Project No.: 2066632
Description: None
Matrix: Water
%Moisture: n/a
Collected: 02/07/07
Received: 02/08/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
Arsenic	EPA 6010	82183	1	45.2		ug/L	6.05	10.0	02/09	02/17 05:17 KJR (1)	
Arsenic, Dissolved	EPA 6010	82344	1	34.1		ug/L	5.12	10.0	02/16	02/17 11:32 KJR (1)	

2 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
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3/8/2007 14:21:56

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Report of Laboratory Analysis

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: RRUW (020707)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA
Site: None
Lab ID: 20500677
Project No.: 2066632
Description: None
Matrix: Water
%Moisture: n/a
Collected: 02/07/07
Received: 02/08/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82183	1	34.1		ug/L	6.05	10.0	02/09	02/17 05:22	KJR (1)	
Arsenic, Dissolved	EPA 6010	82344	1	38.1		ug/L	5.12	10.0	02/16	02/17 11:37	KJR (1)	

2 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/8/2007 14:21:56

New Orleans Laboratory Certifications
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Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health .Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: RB01 (020707)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA
Site: None
Lab ID: 20500678
Project No.: 2066632
Description: None
Matrix: Water
%Moisture: n/a
Collected: 02/07/07
Received: 02/08/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
Arsenic	EPA 6010	82183	1	ND		ug/L	6.05	10.0	02/09	02/17 05:27 KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/8/2007 14:21:56

New Orleans Laboratory Certifications
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Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
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Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: DUP 02 (020707)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA
Site: None
Lab ID: 20500695
Project No.: 2066632
Description: None
Matrix: Water
%Moisture: n/a
Collected: 02/07/07
Received: 02/08/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82183	1	41.0		ug/L	6.05	10.0	02/09	02/17 05:41	KJR (1)	
Arsenic, Dissolved	EPA 6010	82344	1	17.7		ug/L	5.12	10.0	02/16	02/17 11:42	KJR (1)	

2 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
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Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/8/2007 14:21:56

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Report of Laboratory Analysis

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1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: MW-9 (020607)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA
Site: None
Lab ID: 20500740
Project No.: 2066632
Description: None
Matrix: Water
%Moisture: n/a
Collected: 02/06/07
Received: 02/08/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82183	1	31.5		ug/L	6.05	10.0	02/09	02/17 04:51	KJR (1)	
Arsenic, Dissolved	EPA 6010	82344	1	39.9		ug/L	5.12	10.0	02/16	02/17 11:06	KJR (1)	

2 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/8/2007 14:21:56

New Orleans Laboratory Certifications
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Report of Quality Control

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Method: EPA 8260 **Project:** 2066632 **LCS:** 20501271 2/11/2007 2:24:00 PM

Batch: 82231 **MS:** 20501272 2/11/2007 6:15:00 PM

Units: ug/L **Original for MS:** 20500675 Project Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Acetone	50	63.19		126			50	0.00	58.7	62.42	117	125	6	22 - 165	11 - 171	20	A11
Acetonitrile	550	907.4		165			550	0.00	912.5	864	166	157	5	15 - 171	10 - 182	20	
Acrolein	100	62.8		63			100	0.00	68.2	71.05	68	71	4	10 - 150	10 - 150	20	
Acrylonitrile	150	132.8		89			150	0.00	166.5	174.7	111	117	5	10 - 150	10 - 150	20	
Allyl chloride	100	88.35		88			100	0.00	89.89	84.76	90	85	6	30 - 155	34 - 153	20	
Benzene	50	43.76		88			50	0.00	44.35	42.62	89	85	4	70 - 135	60 - 144	20	
Bromodichloromethane	50	43.85		88			50	0.00	46.68	46.74	93	94	0	61 - 156	59 - 156	20	
Bromoform	50	52.9		106			50	0.00	60.48	60.56	121	121	0	56 - 154	50 - 153	20	
Bromomethane	50	32.07		64			50	0.00	33.61	35.06	67	70	4	44 - 158	37 - 165	20	
2-Butanone (MEK)	50	62.27		125			50	0.00	61.17	68.2	122	136	11	32 - 157	20 - 168	20	A11
Carbon disulfide	50	41.31		83			50	0.00	38.5	35.09	77	70	9	40 - 147	36 - 152	20	
Carbon tetrachloride	50	49.04		98			50	0.00	45.65	42.06	91	84	8	50 - 166	44 - 170	20	
Chlorobenzene	50	46.33		93			50	0.00	47.62	47.57	95	95	0	73 - 129	67 - 134	20	
Chloroethane	50	31.91		64			50	0.00	29.64	30.53	59	61	3	38 - 163	34 - 170	20	
Chloroform	50	50.96		102			50	0.66	53.62	52.08	106	103	3	71 - 133	64 - 140	20	
Chloromethane	50	27.66		55			50	0.00	27.62	28.99	55	58	5	32 - 149	22 - 163	20	
Chloroprene	50	52.74		105			50	0.00	52.03	50.65	104	101	3	50 - 141	51 - 134	20	
1,2-Dibromo-3-chloropropa	50	45.37		91			50	0.00	51.95	51.11	104	102	2	34 - 145	28 - 150	20	
Dibromochloromethane	50	48.26		97			50	0.00	51.29	51.01	103	102	1	63 - 147	58 - 147	20	
1,2-Dibromoethane (EDB)	50	52.75		106			50	0.00	61.71	65.46	123	131	6	60 - 147	55 - 149	20	
Dibromomethane	50	46.28		93			50	0.00	52.32	54.33	105	109	4	60 - 147	56 - 148	20	
trans-1,4-Dichloro-2-butene	100	83.84		84			100	0.00	94.41	91.66	94	92	3	17 - 178	21 - 164	20	
1,1-Dichloroethane	50	47.81		96			50	0.00	49.29	47.46	99	95	4	64 - 135	59 - 142	20	
1,2-Dichloroethane	50	44.31		89			50	0.00	49.12	48.66	98	97	1	53 - 164	51 - 161	20	
1,1-Dichloroethene	50	49.1		98			50	0.00	49.7	45.17	99	90	10	51 - 143	44 - 152	20	
trans-1,2-Dichloroethene	50	49.24		99			50	0.00	50.18	46.83	100	94	7	59 - 139	56 - 145	20	
1,2-Dichloropropane	50	43.91		88			50	0.00	45.85	45.3	92	91	1	69 - 135	66 - 138	20	
cis-1,3-Dichloropropene	50	46.5		93			50	0.00	50	51.76	100	104	3	66 - 141	58 - 142	20	
trans-1,3-Dichloropropene	50	44.73		90			50	0.00	50.02	52.96	100	106	6	57 - 150	50 - 151	20	
1,4-Dioxane (p-Dioxane)	1050	1114		106			1050	0.00	1281	1656	122	158	26 *	17 - 176	19 - 172	20	
Ethylbenzene	50	43.23		87			50	0.00	42.68	42.72	85	85	0	67 - 132	58 - 138	20	
Ethyl methacrylate	100	98.26		98			100	0.00	113.5	121.1	114	121	6	57 - 143	45 - 170	20	
2-Hexanone	50	55.75		112			50	0.00	61.68	63.65	123	127	3	36 - 154	25 - 163	20	
Iodomethane	50	53.14		106			50	0.00	53.24	49.41	107	99	7	43 - 159	36 - 160	20	
Isobutanol	1050	1003		96			1050	0.00	1304	1484	124	141	13	32 - 160	26 - 169	20	
Methacrylonitrile	550	582.1		106			550	0.00	664.3	707.2	121	129	6	10 - 171	10 - 167	20	
Methylene chloride	50	63.82		128			50	0.00	63.45	60.57	127	121	5	29 - 159	19 - 158	20	A11
Methyl methacrylate	100	100.8		101			100	0.00	115.8	122.8	116	123	6	52 - 167	11 - 212	20	
4-Methyl-2-pentanone (MI	50	52.76		106			50	0.00	59.48	59.76	119	120	0	13 - 162	10 - 157	20	

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* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Method: EPA 8260 **Project:** 2066632 **LCS:** 20501271 2/11/2007 2:24:00 PM

Batch: 82231 **MS:** 20501272 2/11/2007 6:15:00 PM

Units: ug/L **Original for MS:** 20500675 Project Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Propionitrile	550	557.7		101			550	0.00	680	738.9	124	134	8	23 - 159	25 - 158	20	
Styrene	50	47.13		94			50	0.00	49.07	50.2	98	100	2	71 - 134	54 - 144	20	
1,1,1,2-Tetrachloroethane	50	48.69		97			50	0.00	50.55	50.05	101	100	1	73 - 146	65 - 150	20	
1,1,2,2-Tetrachloroethane	50	45.85		92			50	0.00	52.75	51.71	106	103	2	50 - 142	46 - 145	20	
Tetrachloroethene	50	56.14		112			50	0.00	52.44	50.2	105	100	4	42 - 156	39 - 151	20	
Toluene	50	44.88		90			50	0.00	45.19	45.28	90	91	0	72 - 132	64 - 139	20	
1,1,1-Trichloroethane	50	50.34		101			50	0.00	48.05	45.45	96	91	6	65 - 136	59 - 141	20	
1,1,2-Trichloroethane	50	48.9		98			50	0.00	55.84	56.04	112	112	0	67 - 144	60 - 146	20	
Trichloroethene	50	49.62		99			50	6.95	55.71	55.35	98	97	1	69 - 136	61 - 141	20	
Trichlorofluoromethane	50	47.82		96			50	0.00	46.48	46.23	93	93	1	42 - 161	38 - 160	20	
1,2,3-Trichloropropane	50	49.3		99			50	0.00	58.09	55.52	116	111	5	52 - 152	51 - 151	20	
1,2,4-Trimethylbenzene	50	43.49		87			50	0.00	45.73	45.01	92	90	2	59 - 137	41 - 155	20	
1,3,5-Trimethylbenzene	50	41.57		83			50	0.00	43.38	42.66	87	85	2	69 - 135	55 - 150	20	
Vinyl acetate	50	129		258 *			50	0.00	135.2	139.1	270 *	278 *	3	21 - 190	10 - 185	20	Q10
Vinyl chloride	50	26.56		53			50	0.00	27.21	27.99	54	56	3	40 - 146	28 - 161	20	
m&p-Xylene	100	87.2		87			100	0.00	87.03	87.79	87	88	1	70 - 129	66 - 132	20	
o-Xylene	50	43.17		86			50	0.00	44.65	45.22	89	90	1	70 - 129	66 - 132	20	

56 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Method: EPA 8270 **Project:** 2066632 **LCS:** 20500821 2/12/2007 1:55:00 PM

Batch: 82160 **MS:** 20501189 2/12/2007 2:25:00 PM

Units: ug/L **Original for MS:** 20500627 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
bis(2-Ethylhexyl)phthalate	50	40.68		81			100	0.00	52.9	63.2	53	63	18	30 - 154	16 - 145	20	
4-Nitrophenol	50	31.83		64			100	0.00	61.88	73.7	62	74	17	25 - 140	10 - 158	20	
Pentachlorophenol	50	40.35		81			100	0.00	64.06	68.66	64	69	7	32 - 133	24 - 147	20	

3 compound(s) reported

* denotes recovery outside of QC limits.
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(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Method: EPA 8270 **Project:** 2066632 **LCS:** 20501315 2/14/2007 1:19:00 PM

Batch: 82240 **MS:** 20501316 2/14/2007 1:46:00 PM

Units: ug/L **Original for MS:** 20500675 Project Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
bis(2-Ethylhexyl)phthalate	50	34.87		70			50	0.00	36.59	56.41	73	113	43 *	30 - 154	16 - 145	20	
4-Nitrophenol	50	33.65		67			50	0.00	40.95	34.72	82	69	16	25 - 140	10 - 158	20	
Pentachlorophenol	50	36.16		72			50	16.03	53.65	51.96	75	72	3	32 - 133	24 - 147	20	

3 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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LELAP # 02006

Report: 2066632 **Batch: 82160**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20500667	Sample	77	70	61	77	73	64		
20500668	Sample	68	70	57	77	71	72		
20500669	Sample	67	62	54	67	63	64		
20500670	Sample	79	61	57	74	72	47		
20500740	Sample	71	67	63	72	71	68		
20500820	BLANK	100	87	68	89	76	80		
20500821	LCS	106	96	78	80	83	93		
20501189	MS	76	58	56	64	62	61		
20501190	MSD	85	69	66	60	80	65		
QC limits:		25-133	36-108	10-109	21-120	15-113	17-130		

Sur 1: 2,4,6-Tribromophenol (S)
Sur 2: 2-Fluorobiphenyl (S)
Sur 3: 2-Fluorophenol (S)
Sur 4: Nitrobenzene-d5 (S)
Sur 5: Phenol-d5 (S)
Sur 6: Terphenyl-d14 (S)

*** denotes surrogate recovery outside of QC limits.**
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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Report: 2066632 **Batch: 82231**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20500667	Sample	118	111	93					
20500668	Sample	119	109	91					
20500669	Sample	117	109	90					
20500670	Sample	120	110	93					
20500671	Sample	122	111	91					
20500672	Sample	117	112	89					
20500673	Sample	124	111	93					
20500674	Sample	96	108	93					
20500675	OQS	125	111	93					
20500676	Sample	122	114	91					
20500677	Sample	123	115	90					
20500678	Sample	126	112	90					
20500679	Sample	121	110	90					
20500695	Sample	121	115	92					
20500740	Sample	119	112	92					
20501270	BLANK	110	113	93					
20501271	LCS	107	106	92					
20501272	MS	110	111	94					
20501273	MSD	108	111	95					
20501604	BLANK S1	139 *	124	96					
20501605	LCS	128	113	97					
	QC limits:	71-129	68-124	74-122					

Sur 1: 4-Bromofluorobenzene (S)
Sur 2: Dibromofluoromethane (S)
Sur 3: Toluene-d8 (S)

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D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
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Report: 2066632 **Batch: 82240**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20500671	Sample	62	64	56	65	64	53		
20500672	Sample	58	67	53	67	59	49		
20500673	Sample	60	61	42	54	46	56		
20500674	Sample	67	69	57	68	67	49		
20500675	OQS	67	68	52	68	63	61		
20500676	Sample	62	67	51	67	60	62		
20500677	Sample	73	74	58	73	65	67		
20500678	Sample	63	65	50	67	59	68		
20500695	Sample	33	30 *	21	39	17	38		
20501314	BLANK	66	68	58	69	69	70		
20501315	LCS	68	68	61	68	69	77		
20501316	MS	64	64	50	65	53	56		
20501317	MSD	69	68	58	68	65	61		
20502215	BLANK	44	47	41	46	46	53		
20502216	LCS	61	62	54	63	60	68		
QC limits:		25-133	36-108	10-109	21-120	15-113	17-130		

Sur 1: 2,4,6-Tribromophenol (S)
Sur 2: 2-Fluorobiphenyl (S)
Sur 3: 2-Fluorophenol (S)
Sur 4: Nitrobenzene-d5 (S)
Sur 5: Phenol-d5 (S)
Sur 6: Terphenyl-d14 (S)

*** denotes surrogate recovery outside of QC limits.**
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
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A Lab ID with a MSD suffix is a matrix spike duplicate.

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LELAP # 02006

Lab ID: 20500820
Description: 8270 SVOAs Water **Project No.:** 2066632
Method: EPA 8270 **Batch:** 82160 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 10-Feb-07 **Analyzed:** 02/12/07 13:25 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
83-32-9	Acenaphthene	1	ND		10.0
208-96-8	Acenaphthylene	1	ND		10.0
98-86-2	Acetophenone	1	ND		10.0
120-12-7	Anthracene	1	ND		10.0
1912-24-9	Atrazine	1	ND		10.0
56-55-3	Benzo(a)anthracene	1	ND		10.0
205-99-2	Benzo(b)fluoranthene	1	ND		10.0
207-08-9	Benzo(k)fluoranthene	1	ND		10.0
65-85-0	Benzoic acid	1	ND		10.0
191-24-2	Benzo(g,h,i)perylene	1	ND		10.0
50-32-8	Benzo(a)pyrene	1	ND		10.0
100-51-6	Benzyl alcohol	1	ND		10.0
101-55-3	4-Bromophenylphenyl ether	1	ND		10.0
85-68-7	Butylbenzylphthalate	1	ND		10.0
86-74-8	Carbazole	1	ND		10.0
59-50-7	4-Chloro-3-methylphenol	1	ND		10.0
106-47-8	4-Chloroaniline	1	ND		10.0
111-91-1	bis(2-Chloroethoxy)methane	1	ND		10.0
111-44-4	bis(2-Chloroethyl) ether	1	ND		10.0
91-58-7	2-Chloronaphthalene	1	ND		10.0
95-57-8	2-Chlorophenol	1	ND		10.0
7005-72-3	4-Chlorophenylphenyl ether	1	ND		10.0
218-01-9	Chrysene	1	ND		10.0
21725-46-2	Cyanazine	1	ND		10.0
53-70-3	Dibenz(a,h)anthracene	1	ND		10.0
132-64-9	Dibenzofuran	1	ND		10.0
95-50-1	1,2-Dichlorobenzene	1	ND		10.0
541-73-1	1,3-Dichlorobenzene	1	ND		10.0
106-46-7	1,4-Dichlorobenzene	1	ND		10.0
91-94-1	3,3'-Dichlorobenzidine	1	ND		10.0
120-83-2	2,4-Dichlorophenol	1	ND		10.0
84-66-2	Diethylphthalate	1	ND		10.0
105-67-9	2,4-Dimethylphenol	1	ND		10.0
131-11-3	Dimethylphthalate	1	ND		10.0
84-74-2	Di-n-butylphthalate	1	ND		10.0
534-52-1	4,6-Dinitro-2-methylphenol	1	ND		10.0

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Lab ID: 20500820

Description: 8270 SVOAs Water **Project No.:** 2066632

Method: EPA 8270 **Batch:** 82160 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 10-Feb-07 **Analyzed:** 02/12/07 13:25 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
51-28-5	2,4-Dinitrophenol	1	ND		10.0
121-14-2	2,4-Dinitrotoluene	1	ND		10.0
606-20-2	2,6-Dinitrotoluene	1	ND		10.0
117-84-0	Di-n-octylphthalate	1	ND		10.0
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		10.0
206-44-0	Fluoranthene	1	ND		10.0
86-73-7	Fluorene	1	ND		10.0
87-68-3	Hexachloro-1,3-butadiene	1	ND		10.0
118-74-1	Hexachlorobenzene	1	ND		10.0
77-47-4	Hexachlorocyclopentadiene	1	ND		10.0
67-72-1	Hexachloroethane	1	ND		10.0
193-39-5	Indeno(1,2,3-cd)pyrene	1	ND		10.0
78-59-1	Isophorone	1	ND		10.0
91-57-6	2-Methylnaphthalene	1	ND		10.0
95-48-7	2-Methylphenol (o-Cresol)	1	ND		10.0
106-44-5	4-Methylphenol (p-Cresol)	1	ND	A7	10.0
91-20-3	Naphthalene	1	ND		10.0
88-74-4	2-Nitroaniline	1	ND		10.0
99-09-2	3-Nitroaniline	1	ND		10.0
100-01-6	4-Nitroaniline	1	ND		10.0
98-95-3	Nitrobenzene	1	ND		10.0
88-75-5	2-Nitrophenol	1	ND		10.0
100-02-7	4-Nitrophenol	1	ND		10.0
621-64-7	N-Nitroso-di-n-propylamine	1	ND		10.0
86-30-6	N-Nitrosodiphenylamine	1	ND	A10	10.0
108-60-1	2,2'-Oxybis(1-chloropropane)	1	ND		10.0
87-86-5	Pentachlorophenol	1	ND		10.0
85-01-8	Phenanthrene	1	ND		10.0
108-95-2	Phenol	1	ND		10.0
129-00-0	Pyrene	1	ND		10.0
120-82-1	1,2,4-Trichlorobenzene	1	ND		10.0
95-95-4	2,4,5-Trichlorophenol	1	ND		10.0
88-06-2	2,4,6-Trichlorophenol	1	ND		10.0

69 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Lab ID: 20501270

Description: 8260 VOAs Full List Water BLK **Project No.:** 2066632

Method: EPA 8260 **Batch:** 82231 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 11-Feb-07 **Analyzed:** 02/11/07 14:03 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
67-64-1	Acetone	1	ND	A11	10.0
75-05-8	Acetonitrile	1	ND		100.
107-02-8	Acrolein	1	ND		20.0
107-13-1	Acrylonitrile	1	ND		20.0
107-05-1	Allyl chloride	1	ND		10.0
71-43-2	Benzene	1	ND		5.00
75-27-4	Bromodichloromethane	1	ND		5.00
75-25-2	Bromoform	1	ND		5.00
74-83-9	Bromomethane	1	ND		5.00
78-93-3	2-Butanone (MEK)	1	ND	A11	10.0
75-15-0	Carbon disulfide	1	ND		5.00
56-23-5	Carbon tetrachloride	1	ND		5.00
108-90-7	Chlorobenzene	1	ND		5.00
75-00-3	Chloroethane	1	ND		5.00
67-66-3	Chloroform	1	ND		5.00
74-87-3	Chloromethane	1	ND		5.00
126-99-8	Chloroprene	1	ND		5.00
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.00
124-48-1	Dibromochloromethane	1	ND		5.00
106-93-4	1,2-Dibromoethane (EDB)	1	ND		5.00
74-95-3	Dibromomethane	1	ND		5.00
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		5.00
75-71-8	Dichlorodifluoromethane	1	ND		5.00
75-34-3	1,1-Dichloroethane	1	ND		5.00
107-06-2	1,2-Dichloroethane	1	ND		5.00
75-35-4	1,1-Dichloroethene	1	ND		5.00
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00
78-87-5	1,2-Dichloropropane	1	ND		5.00
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		250.
100-41-4	Ethylbenzene	1	ND		5.00
97-63-2	Ethyl methacrylate	1	ND		10.0
591-78-6	2-Hexanone	1	ND		10.0
74-88-4	Iodomethane	1	ND		5.00
78-83-1	Isobutanol	1	ND		250.

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Phone: 504.469.0333
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LELAP # 02006

Lab ID: 20501270

Description: 8260 VOAs Full List Water BLK **Project No.:** 2066632

Method: EPA 8260 **Batch:** 82231 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 11-Feb-07 **Analyzed:** 02/11/07 14:03 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
126-98-7	Methacrylonitrile	1	ND		100.
75-09-2	Methylene chloride	1	3.55 J	A11	5.00
80-62-6	Methyl methacrylate	1	ND		10.0
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0
107-12-0	Propionitrile	1	ND		20.0
100-42-5	Styrene	1	ND		5.00
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.00
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00
127-18-4	Tetrachloroethene	1	ND		5.00
108-88-3	Toluene	1	ND		5.00
71-55-6	1,1,1-Trichloroethane	1	ND		5.00
79-00-5	1,1,2-Trichloroethane	1	ND		5.00
79-01-6	Trichloroethene	1	ND		5.00
75-69-4	Trichlorofluoromethane	1	ND		5.00
96-18-4	1,2,3-Trichloropropane	1	ND		5.00
95-63-6	1,2,4-Trimethylbenzene	1	ND		5.00
108-67-8	1,3,5-Trimethylbenzene	1	ND		5.00
108-05-4	Vinyl acetate	1	ND		10.0
75-01-4	Vinyl chloride	1	ND		5.00
	m&p-Xylene	1	ND		5.00
95-47-6	o-Xylene	1	ND		5.00

57 compound(s) reported

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Lab ID: 20501314
Description: 8270 SVOAs Water **Project No.:** 2066632
Method: EPA 8270 **Batch:** 82240 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 13-Feb-07 **Analyzed:** 02/14/07 12:52 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
83-32-9	Acenaphthene	1	ND		10.0
208-96-8	Acenaphthylene	1	ND		10.0
98-86-2	Acetophenone	1	ND		10.0
120-12-7	Anthracene	1	ND		10.0
1912-24-9	Atrazine	1	ND		10.0
56-55-3	Benzo(a)anthracene	1	ND		10.0
205-99-2	Benzo(b)fluoranthene	1	ND		10.0
207-08-9	Benzo(k)fluoranthene	1	ND		10.0
191-24-2	Benzo(g,h,i)perylene	1	ND		10.0
50-32-8	Benzo(a)pyrene	1	ND		10.0
95-57-8	2-Chlorophenol	1	ND		10.0
218-01-9	Chrysene	1	ND		10.0
21725-46-2	Cyanazine	1	ND		10.0
53-70-3	Dibenz(a,h)anthracene	1	ND		10.0
132-64-9	Dibenzofuran	1	ND		10.0
120-83-2	2,4-Dichlorophenol	1	ND		10.0
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		10.0
206-44-0	Fluoranthene	1	ND		10.0
86-73-7	Fluorene	1	ND		10.0
193-39-5	Indeno(1,2,3-cd)pyrene	1	ND		10.0
91-57-6	2-Methylnaphthalene	1	ND		10.0
91-20-3	Naphthalene	1	ND		10.0
100-02-7	4-Nitrophenol	1	ND		10.0
87-86-5	Pentachlorophenol	1	ND		10.0
85-01-8	Phenanthrene	1	ND		10.0
129-00-0	Pyrene	1	ND		10.0
95-95-4	2,4,5-Trichlorophenol	1	ND		10.0
88-06-2	2,4,6-Trichlorophenol	1	ND		10.0

28 compound(s) reported

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Method: EPA 8151 **Project:** 2066632 **LCS:** 20500848 2/22/2007 6:50:00 PM

Batch: 82113 **MS:** 20500609 2/22/2007 11:58:00 AM

Units: ug/L **Original for MS:** 20499680 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Dinoseb	5	14.78		296 *			10	0.00	69.04	14.02	690 *	140	132 *	10 - 146	10 - 151	20	Q10

1 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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LELAP # 02006

Method: EPA 8151 **Project:** 2066632 **LCS:** 20501319 2/23/2007 4:54:00 AM

Batch: 82241 **MS:** 20501320 2/23/2007 7:38:00 AM

Units: ug/L **Original for MS:** 20500675 Project Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Dinoseb	5	4.627		93			5	32.20	30.65	28.52	0 *	0 *	7	10 - 146	10 - 151	20	Q1

1 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Method: EPA 8151 **Project:** 2066632 **LCS:** 20503908 3/2/2007 9:01:00 AM

Batch: 82761 **MS:** 20503909 3/4/2007 12:20:00 PM

Units: ug/L **Original for MS:** 20503424 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Dinoseb	5	0.059		1 *			10	0.00	4.776	2.612	48	26	59 *	10 - 146	10 - 151	20	

1 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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LELAP # 02006

Report: 2066632 **Batch: 82113**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20500607	BLANK	101	128						
20500608	LCS	118	141						
20500609	MS	162	120						
20500610	MSD	132	118						
20500667	Sample N	0 *	7 *						
20500668	Sample	26	23						
20500669	Sample	91	94						
20500670	Sample	107	109						
20500740	Sample	108	135						
20500847	BLANK	70	73						
20500848	LCS	123	126						
	QC limits:	10-181	10-181						

Sur 1: 2,4-DCPA (Conf)(S)
Sur 2: 2,4-DCPA (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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LELAP # 02006

Report: 2066632 **Batch: 82217**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20500667	Sample	82	72	66	64				
20500668	Sample	79	75	61	61				
20500669	Sample	80	76	61	59				
20500670	Sample	75	94	54	55				
20500671	Sample	85	76	68	68				
20500672	Sample	74	69	65	59				
20500673	Sample	76	66	59	62				
20500674	Sample	62	61	44	48				
20500675	OQS	80	81	58	72				
20500676	Sample	82	79	54	70				
20500677	Sample	84	83	60	71				
20500678	Sample	62	57	63	65				
20500695	Sample	76	75	51	66				
20500740	Sample	70	69	48	55				
20501181	BLANK	55	54	50	50				
20501182	LCS	55	53	62	57				
20501185	MS	82	80	55	71				
20501186	MSD	86	83	56	72				
QC limits:		10-157	10-157	18-171	18-171				

Sur 1: Decachlorobiphenyl (Conf)(S)
Sur 2: Decachlorobiphenyl (S)
Sur 3: Tetrachloro-m-xylene (Conf)(S)
Sur 4: Tetrachloro-m-xylene (S)

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A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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Report: 2066632 **Batch: 82241**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20500671	Sample	135	134						
20500672	Sample	102	110						
20500673	Sample	84	110						
20500674	Sample	32	26						
20500675	OQS D1,G	158	185 D						
20500676	Sample D1	0 D	0 D						
20500677	Sample D1	138	137						
20500678	Sample	27	35						
20500695	Sample D1	120	156						
20501318	BLANK	116	126						
20501319	LCS	117	127						
20501320	MS	122	127						
20501321	MSD	109	112						
	QC limits:	10-181	10-181						

Sur 1: 2,4-DCPA (Conf)(S)
Sur 2: 2,4-DCPA (S)

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A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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LELAP # 02006

Report: 2066632 **Batch: 82761**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20500667	Sample N	77	130						
20503907	BLANK	117	77						
20503908	LCS	32	38						
20503909	MS	100	94						
20503910	MSD	103	92						
	QC limits:	10-181	10-181						

Sur 1: 2,4-DCPA (Conf)(S)
Sur 2: 2,4-DCPA (S)

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A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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Lab ID: 20500847
Description: 8151 Herbs Water **Project No.:** 2066632
Method: EPA 8151 **Batch:** 82113 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 12-Feb-07 **Analyzed:** 02/22/07 18:22 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
94-75-7	2,4-D	1	ND		2.00
127-20-8	Dalapon	1	ND		10.0
94-82-6	2,4-DB	1	ND		5.00
1918-00-9	Dicamba	1	ND		0.500
120-36-5	Dichloroprop	1	ND		2.00
88-85-7	Dinoseb	1	ND		2.00
94-74-6	MCPA	1	ND		250.
7085-19-0	MCPP	1	ND		250.
93-76-5	2,4,5-T	1	ND		0.500
93-72-1	2,4,5-TP (Silvex)	1	ND		0.500

10 compound(s) reported

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Lab ID: 20501181
Description: 8081 Pests Water **Project No.:** 2066632
Method: EPA 8081 **Batch:** 82217 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 10-Feb-07 **Analyzed:** 02/15/07 16:50 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
8001-35-2	Toxaphene	1	ND		2.00

1 compound(s) reported

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Lab ID: 20501318
Description: 8151 Herbs Water **Project No.:** 2066632
Method: EPA 8151 **Batch:** 82241 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 14-Feb-07 **Analyzed:** 02/23/07 04:26 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
88-85-7	Dinoseb	1	ND		2.00

1 compound(s) reported

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20503907
Description: 8151 Herbs Water **Project No.:** 2066632
Method: EPA 8151 **Batch:** 82761 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 26-Feb-07 **Analyzed:** 03/06/07 18:18 SPP1 (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
94-75-7	2,4-D	1	ND		2.00
127-20-8	Dalapon	1	ND		10.0
94-82-6	2,4-DB	1	ND		5.00
1918-00-9	Dicamba	1	ND		0.500
120-36-5	Dichloroprop	1	ND		2.00
88-85-7	Dinoseb	1	ND		2.00
94-74-6	MCPA	1	ND		250.
7085-19-0	MCPP	1	ND		250.
93-76-5	2,4,5-T	1	0.661		0.500
93-72-1	2,4,5-TP (Silvex)	1	ND		0.500

10 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/8/2007 14:22:16

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health .Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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New Orleans Laboratory

Report of Quality Control

Pace Analytical Services, Inc.
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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2066632

Parameter	Batch	Blank	ARL	Units	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS DUP RPD	QC Limits LCS	QC Limits MS/MSD	RPD Max	Qu
Arsenic	82183	ND	10.0	ug/L	1000	103			1000	100	98	2	79 - 122	68 - 130	20	
Arsenic, Disso	82344	ND	10.0	ug/L	1000	103			1000	87	88	0	72 - 116	60 - 123	20	

3/8/2007 14:22:19

ARL denotes Adjusted Reporting Limit , corrected for sample size, dilution and moisture content as applicable.
* denotes recovery outside of QC limits.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health .Environment - E-10266
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New Orleans Laboratory

Report Qualifiers

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2066632

ALL Qualifiers

Qualifier	Qualifier Description
N	See narrative for a detailed explanation.

Analyte Qualifiers

Qualifier	Qualifier Description
A7	3-Methylphenol and 4-methylphenol coelute under the conditions used for analysis, therefore the precise isomer in the sample cannot be determined. The sample concentration is arbitrarily reported as 4-methylphenol.
A10	N-Nitrosodiphenylamine is reported as diphenylamine.
A11	This analyte is a common solvent. Its presence in field samples may be an artifact of sample collection, transport, laboratory storage or analysis.
G1	Interferences are present which caused poor surrogate recovery.
J	This estimated value for the analyte is below the adjusted reporting limit but above the instrument reporting limit.

General Qualifiers

Qualifier	Qualifier Description
D1	The analysis was performed at a dilution due to the high analyte concentration.

QC Qualifiers

Qualifier	Qualifier Description
Q1	The matrix spike recoveries are poor. Acceptable method performance for this analyte has been demonstrated by the laboratory control sample recovery.
Q10	The spike recovery was above the laboratory QC limits, however, the data are reported without qualification since the target analyte was not detected in the corresponding samples.
Q3	The matrix spike recoveries are poor due to the presence of this analyte in the sample at a concentration greater than 4 times the spiked amount. Acceptable method performance for this analyte has been demonstrated by the laboratory control sample.

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

ARCADIS

Laboratory Task Order No./P.O. No. _____ **CHAIN-OF-CUSTODY RECORD** Page 1 of 2

Project Number/Name Miss Bluff / LA002656.0041.00013

Project Location Vicksburg, MS

Laboratory PACE

Project Manager Greg Doreau

Sampler(s)/Affiliation G. Cook, K. Montgomery

2066632

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	SVOCs (8270) 1-L Amber/4°	0 pesticides (8081) 1-L Amber/4°	0 herbicides (8151) 1-L Amber/4°	TI Metals 1-L Amber/4°	aromatics (8021) 3 VOAs/4°	0 Metals 250ml plastic/4°	250ml plastic/4°	VOCs (8260) HCl/4°	Remarks	Total
PZ-25B(020607)	L	02-06-07 0843		3	2	2	1	1	3			See Bottom ** 2050067	12
MW-14(020607)	L	1015		3	2	2	1	1	3			668	12
MW-16(020607)	L	1252		3	2	2	~~1~~	1	3			669	12
MW-9(020607)	L	1422		3	2	2	1	1	3			740	12
MW-8(020607)	L	1545		3	2	2	1	1				670	12
TB-04(020607)	L	02-06-07								2		679	2
RB-04(020707)	L	02-07-07 0740		3	2	2	1	X	3			678	11
MW-17A(020707)	L	0830		3	2	2	1	1	3			671	12
MW-17B(020707)	L	0918		3	2	2	1	1	3			HOT 672	12
MW-18A(020707)	L	1055		3	2	2	1	1	3			HOT 673	12
MW-18B(020707)	L	1120		3	2	2	1	1	3			HOT 674	12
MW-1A(020707)	L	1340		9	6	6	3	3	9			MS/MSD 675	36
~~MW-TB(020707)~~	L												
MW-1C(020707)	L	~~1500~~ 1500		3	2	2	1	1	3			Hot? 676	12
RRUW(020707)	L	1550		3	2	2	1	1	3			Hot? 677	12
												Total No. of Bottles/ Containers	181

Sample Matrix: L = Liquid; S = Solid; A = Air

Relinquished by: George Cook	Organization: Arcadis	Date 02/07/07	Time 1830	Seal Intact?	Yes No N/A
Received by:	Organization:	Date / /	Time		
Relinquished by:	Organization:	Date / /	Time	Seal Intact?	
Received by:	Organization:	Date / /	Time		Yes No N/A

Special Instructions/Remarks: ** Sample received with HCL - most if not all of HCL was washed out w/ purge water.
Samples are in Coolers 42, 43, 44, 45, 46,
Lab to filter dissolved metals

Delivery Method: ☐ In Person ☑ Common Carrier Fed Ex SPECIFY ☐ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

ARCADIS

Laboratory Task Order No./P.O. No. _____ **CHAIN-OF-CUSTODY RECORD** Page 2 of 2

Project Number/Name Miss Bluffs / LA002656.0001.00013

Project Location Vicksburg MS

Laboratory PACE

Project Manager Craig Dorrough

Sampler(s)/Affiliation G. Cook, K. Montgomery

2066632

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE: SVOCs (8270) 1-1ltr Amber/4°C	1-1ltr Amber/4°C O. Pesticides (8081)	1-1ltr Amber/4°C O. Herbicides (8151)	1-1ltr Amber/4°C T. Metals	250ml plastic/HNO3/4°C D. Metals	250ml plastic/4°C VOCs (8260) App IX HEC	40ml clear vials/4°C	Remarks	Total
Dup-02(020707)	L	02-07-07		3	2	2	1	1	3		Ref? 2050625	12
											Tuk pg1	18
											Tuk pg2	12
											Total No. of Bottles/ Containers	193

Sample Matrix: L = Liquid; S = Solid; A = Air

Relinquished by: George Cook	Organization: Arcadis	Date 02/07/07	Time 1830	Seal Intact?	
Received by: _____	Organization: _____	Date / /	Time _____	Yes	No N/A
Relinquished by: _____	Organization: _____	Date / /	Time _____	Seal Intact?	
Received by: _____	Organization: _____	Date / /	Time _____	Yes	No N/A

Special Instructions/Remarks: _____

Lab to filter dissolved metals

Delivery Method: ☐ In Person ☒ Common Carrier FedEx SPECIFY ☐ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

ARCADIS

Laboratory Task Order No./P.O. No. _____ **CHAIN-OF-CUSTODY RECORD** Page 1 of 2

Project Number/Name Miss Bluff / LA002656.0001.00013

Project Location Vicksburg, Miss.

Laboratory PACE

Project Manager Greg Doreau

Sampler(s)/Affiliation G. Cook, K. Montgomery

2066632

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	SVOCs - (8270) 1-L Amber / 4 oz	8 pesticides (808) 1-L Amber / 4 oz	8 Herbicides (8151) 1-L Amber / 4 oz	TI Metals 1-L Amber / 4 oz	8 Metals 250 mL plastic / HNO3 / 4 oz	2 mL plastic / 4 oz	VOCs (8260) App IX 40 mL clear vials / HCl / 4 oz	Remarks	Total
PZ-25B(020607)	L	02-06-07 0843		3	2	2	1	1	3		See Below ** 2050067	12
MW-14(020607)	L	1015		3	2	2	1	1	3		668	12
MW-16(020607)	L	1042		3	2	2	~~1~~	1	3		Not Hot 669	~~12~~ 12
MW-9(020607)	L	1422		3	2	2	1	1	3		740	12
MW-8(020607)	L	1545		3	2	2	1	1			670	12
TB-04(020607)	L	02-06-07								2	679	2
RB-01(020707)	L	02-07-07 0740		3	2	2	1	X from Lab	3		678	~~12~~ 11
MW-17A(020707)	L	0830		3	2	2	1	1	3		671	12
MW-12B(020707)	L	0918		3	2	2	1	1	3		Hot 672	12
MW-18A(020707)	L	1055		3	2	2	1	1	3		Hot 673	12
MW-18B(020707)	L	1120		3	2	2	1	1	3		Hot 674	12
MW-1A(020707)	L	1340		9	6	6	3	3	9		MS/MSD 675	~~24~~ 36
~~MW-1B(020707)~~	L											
MW-1C(020707)	L	~~1500~~ 1500		3	2	2	1	1	3		Hot? 676	12
RRUW(020707)	L	1550		3	2	2	1	1	3		Hot? 677	12

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers: 181

Relinquished by: George Cook	Organization: Arcadis	Date 02/07/07	Time 1830	Seal Intact?	
Received by: _____	Organization: _____	Date / /	Time _____	Yes	No N/A
Relinquished by: _____	Organization: _____	Date / /	Time _____	Seal Intact?	
Received by: _____	Organization: _____	Date / /	Time _____	Yes	No N/A

Special Instructions/Remarks: ** Sample reacted with HCL - most if not all of HCL was washed out w. purge water. Samples are in Coolers 42, 43, 44, 45, 46, ¥ Lab to filter dissolved metals

Delivery Method: ☐ In Person ☒ Common Carrier Fed. SPECIFY ☐ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

ARCADIS

Laboratory Task Order No./P.O. No. _____ **CHAIN-OF-CUSTODY RECORD** Page 2 of 2

Project Number/Name Miss Bliss / LA002656.0001.00013

Project Location Vicksburg MS

Laboratory PACE

Project Manager Craig Dorrough

Sampler(s)/Affiliation G. Cook, K. Montgomery

2066632

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	SVOCs (8270) 1-1-tr Amber/4°C	1-1-tr Amber/4°C O. Pesticides (8081)	1-1-tr Amber/4°C O. Herbicides (8151)	1-1-tr Amber/4°C T. Metals	250ml plastic/HNO3/4°C D. Metals	250ml plastic/4°C VOCs (8260) MP 1X HCl	40ml clear vials/4°C	Remarks	Total
Dup-02(020707)	L	02-07-07		3	2	2	1	1	3		Hot? 2050685	12
											Tubes 1	18
											Tubes 2	12
											Total No. of Bottles/Containers	193

Sample Matrix: L = Liquid; S = Solid; A = Air

Relinquished by: George Cook	Organization: Arcadis	Date 02/07/07	Time 1830	Seal Intact?	
Received by: _____	Organization: _____	Date / /	Time _____	Yes No N/A	
Relinquished by: _____	Organization: _____	Date / /	Time _____	Seal Intact?	
Received by: _____	Organization: _____	Date / /	Time _____	Yes No N/A	

Special Instructions/Remarks: _____

Lab to filter dissolved metals

Delivery Method: ☐ In Person ☒ Common Carrier FedEx SPECIFY ☐ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

ANALYTICAL DATA VALIDATION CHECKLIST **Former Vicksburg Chemical Company**

SDG NUMBER(s)	**2066632**	
Sample Date(s):	02/06/07 and 02/07/07	
Sample Team:	ARCADIS	
Sample Matrix:	Water	
Analyzing Laboratories:	Pace Analytical Services (New Orleans, Asheville, and Charlotte)	
Analyses: Project-Specific Compound Lists	**USEPA Methods:** 8260 Volatile Organic Compounds (VOCs) 8270 Semivolatile Organic Compound (SVOCs)	8151 (Herbicides) 8081 (Pesticides) 6010 (Metals)
Report Content Level:	Contract Laboratory Program (CLP) Type including raw data	

ARCADIS U.S., Inc.
3850 N. Causeway Blvd.
Suite 1600
Metairie, LA 70002
Tel. 504 832 4174
Fax 504 832 2145

ENVIRONMENT

Project Number:
LA002656.0001.00012

Review of field data, field notes, and sampling logs was conducted separately. Analytical data were evaluated in accordance with applicable U.S. Environmental Protection Agency (USEPA) method-specific criteria and/or laboratory Standard Operating Procedures (SOPs), *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (July 2002), *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review* (October 1999), *Quality Assurance Project Plan* (September 2006), the analytical laboratory Quality Assurance (QA) control limits, *Site Baseline Sampling Work Plan* (January 2007), and professional judgment.

This data verification was performed at a **Level 1** and included review of data package completeness, method blanks, holding time compliance, field duplicate precision, and field Quality Control (QC) sample evaluation. Only QA/QC results and analytical data associated with analytes/compounds of interest were reviewed for this validation.

The data package review included analytical results and associated QC data for all samples in the listed Sample Delivery Group(s) unless otherwise noted.

The following samples were included in this Validation:

SDG	Sample ID	Sample Type	Sample Collection Date	Parent Sample
2066632	PZ-25B (020607)	Water	02/06/07	
2066632	MW14 (020607)	Water	02/06/07	
2066632	MW16 (020607)	Water	02/06/07	
2066632	MW8 (020607)	Water	02/06/07	
2066632	MW17A (020607)	Water	02/06/07	
2066632	MW17B (020707)	Water	02/07/07	
2066632	MW18A (020707)	Water	02/07/07	
2066632	MW18B (020707)	Water	02/07/07	
2066632	MW1A (020707)	Water	02/07/07	
2066632	MW1C (020707)	Water	02/07/07	
2066632	RRUW (020707)	Water	02/07/07	
2066632	RB01 (020707)	Water	02/07/07	
2066632	TB (020607)	Water	02/06/07	
2066632	DUP 02 (020707)	Water	02/07/07	MW1C (020707)
2066632	MW-9 (020607)	Water	02/06/07	

ANALYTICAL DATA PACKAGE DOCUMENTATION
GENERAL INFORMATION

Item Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt information		X		X	
2. Sample results		X		X	
3. Parameters analyzed		X		X	
4. Methods of analysis		X		X	
5. Reporting limits of analysis		X		X	
6. Master tracking list		X		X	
7. Sample collection date		X		X	
8. Laboratory sample received date		X		X	
9. Sample preservation		X		X	
10. Sample preparation/extraction date		X		X	
11. Sample analysis date		X		X	
12. Copy of Chain-of-Custody form signed by laboratory sample custodian		X		X	
13. Narrative summary of QA or sample problems provided		X		X	

QA - Quality Assurance

Comments:

All samples referenced in this report were analyzed by various divisions of Pace Analytical Services.

Performance was acceptable, with the following exceptions and/or notes:

Note: The laboratory had not completed Method Detection Limit (MDL) studies for Atrazene, Cyanazine, or Toxaphene.

5. The laboratory reported values between the MDL and the Reporting Limit (RL) as estimated except for Toxaphene, Atrazene, and Cyanazine. If the compound was not detected, the analytical report lists the result as non-detect at the quantitative reporting limit.

VOLATILE ORGANIC COMPOUNDS

Item Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
1. Holding Times		X		X	
2. Reporting Limits		X		X	
3. Blanks					
A. Method Blanks		X	X		
B. Equipment Blanks/Rinsate Blanks		X	X		
C. Field Blanks	X				X
D. Trip Blanks		X	X		
4. Field Duplicate Precision (RPD)		X		X	
5. Narrative Notations of Potential Impact		X		X	

RPD - relative percent difference

Comments:

This section presents the review of USEPA Method 8260 Volatile Organic Compounds (VOCs). Performance was acceptable, with the following exceptions and/or notes:

Note: The Appendix IX compound list was reported.

3. One trip blank, one rinsate blank, and one method blank were associated with the samples. Methylene Chloride was detected in TB (020607) and the method blank. Acetone was detected in RB-01(020707). The associated field samples are qualified as non-detect (UB) for Methylene Chloride if the sample concentration is less than 10 times the blank value. No qualification is necessary for Acetone.

4. DUP-02(020707) was collected as a field duplicate of MW-1C(020707). The RPDs were acceptable.

SEMIVOLATILE ORGANIC COMPOUNDS

Item Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
1. Holding Times		X		X	
2. Reporting Limits		X		X	
3. Blanks					
A. Method Blanks		X		X	
B. Equipment Blanks/Rinsate Blanks		X		X	
C. Field Blanks	X				X
4. Field Duplicate Precision (RPD)		X	X		
5. Narrative Notations of Potential Impact		X		X	

RPD - relative percent difference

Comments:

The following section was reviewed and completed for USEPA Method 8270 Semivolatile Organic Compounds (SVOCs). Performance was acceptable, with the following exceptions and/or notes:

Notes: A project-specific list of compounds was reported.

4. DUP-02(020707) was collected as a field duplicate of MW-1C(020707). The RPD for Pentachlorophenol was above the control limit. The parent and the duplicate are qualified as estimated for Pentachlorophenol.

PESTICIDES AND HERBICIDES

Item Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
1. Holding Times		X		X	
2. Reporting Limits		X		X	
3. Blanks					
A. Method Blanks		X		X	
B. Equipment Blanks/Rinsate Blank		X		X	
C. Field Blanks	X				X
4. Field Duplicate Precision (RPD)		X		X	
5. Narrative Notations of Potential Impact		X		X	

RPD - relative percent difference

Comments:

The following section was reviewed and completed for USEPA Method 8151 (Herbicides) Dinoseb only and Method 8081 (Pesticides) Toxaphene only. Performance was acceptable, with the following exceptions and/or notes:

1. The surrogate recoveries for Dinoseb were below (less than 10 percent) for PZ-25B(020607). PZ-25B(020607) was re-extracted 13 days beyond the recommended (7-day) holding time for Dinoseb. The surrogate recoveries were acceptable; however, the re-extraction occurred more than 2 times the recommended holding time. The original analysis will be used and the sample will be qualified as rejected due to surrogate recoveries.

2. MW-1A (020707), MW-1 (020707), RRUW (020707), and DUP-02 (020707) were analyzed at dilutions for Dinoseb due to elevated concentrations.

4. DUP-02(020707) was collected as a field duplicate of MW-1C(020707). The RPDs were acceptable.

METALS

Item Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
1. Holding Times		X		X	
2. Reporting Limits		X		X	
3. Blanks					
A. Method Blanks		X		X	
B. Equipment Blanks/Rinsate Blanks	X				X
C. Field Blanks	X				X
4. Field Duplicate Precision (RPD)		X		X	
5. Narrative Notations of Potential Impact		X		X	

RPD - relative percent difference

Comments:

The following section was reviewed and completed for USEPA Method 6010 (Total and Dissolved Arsenic). Performance was acceptable, with the following exceptions and/or notes:

4. DUP-02(020707) was collected as a field duplicate of MW-1C(020707). The RPD for Dissolved Arsenic was above the control limit. The parent and the duplicate are qualified as estimated for Dissolved Arsenic.

VALIDATION QUALIFICATION SUMMARY

Data values presented in the following table were qualified due to QC deficiencies. The table indicates compounds/analytes qualified based on validation reviews conducted in accordance with the level of review referenced on page 1 of this checklist. Refer to the associated method section of the validation checklist for a detailed explanation of qualification. All other data are considered quantitative.

The following data qualifiers with applicable definitions were applied in this data validation:

UB - compound/analyte detected in blank or associated blank.

J - the analyte was positively identified, but the associated numerical value is the approximate concentration of the analyte in the sample.

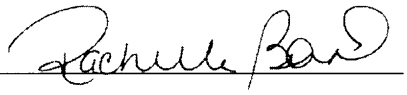
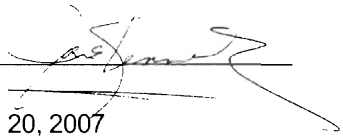
UJ - the analyte was not detected above the reporting limit; however, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R - the sample result is rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria, and the presence or absence of the analyte cannot be verified.

All other data satisfy validation criteria and are considered to be quantitative.

Sample ID	Parameter	Result	Units	Qualifier	Reason
PZ-25B (020607)	Methylene Chloride	2.42	µg/L	UB	Blank Contamination
MW-14 (020607)	Methylene Chloride	1.70	µg/L	UB	Blank Contamination
MW-16 (020607)	Methylene Chloride	1.05	µg/L	UB	Blank Contamination
MW-1C (020707)	Pentachlorophenol	<10.0	µg/L	UJ	Field Duplicate RPD
DUP 02 (020707)	Pentachlorophenol	10.1	µg/L	J	Field Duplicate RPD
PZ-25B (020607)	Dinoseb	<2.0	µg/L	UJ	Surrogate Recovery
MW-1C (020707)	Dissolved Arsenic	34.1	µg/L	J	Field Duplicate RPD
DUP-02 (020707)	Dissolved Arsenic	17.7	µg/L	J	Field Duplicate RPD

RPD Relative Percent Difference.
µg/L Micrograms per Liter.

VALIDATION PERFORMED BY:	Rachelle Borne
SIGNATURE:	
DATE:	June 20, 2007
PEER REVIEW:	Jane Kennedy
SIGNATURE:	
DATE:	June 20, 2007

Pace Analytical®
New Orleans Laboratory

Pace Analytical Services, Inc.
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Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

March 06, 2007

Craig Derouen
Arcadis Geraghty & Miller
10352 Plaza Americana Drive
Baton Rouge, LA 70816

RE: Project: 2066695
RE: Project ID: MS BLUFFS/LA002656.000.00013

Dear Craig Derouen:

Enclosed are the analytical results for sample(s) received by the laboratory on February 09, 2007. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Cindy Olavesen

Cindy Olavesen

ACCREDITED IN ACCORDANCE WITH nelac

REPORT OF LABORATORY ANALYSIS

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1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Report of Laboratory Analysis

Project Number: 2066695

3/6/2007 09:49:36

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Sample Cross Reference Report

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.000.00013

Project No.: 2066695

Sample ID	Lab ID	Matrix	Collection Date/Time		Received Date/Time	
PZ-22A (020807)	20501082	Water	02/08/2007	08:08	02/09/2007	16:15
PZ-22B (020807)	20501083	Water	02/08/2007	08:55	02/09/2007	16:15
PZ-26A (020807)	20501084	Water	02/08/2007	10:10	02/09/2007	16:15
PZ-26B (020807)	20501086	Water	02/08/2007	11:00	02/09/2007	16:15
PZ-23B (020807)	20501087	Water	02/08/2007	12:00	02/09/2007	16:15
MW-11 (020807)	20501088	Water	02/08/2007	14:00	02/09/2007	16:15
MW-10 (020807)	20501089	Water	02/08/2007	15:15	02/09/2007	16:15
MW-10C (020807)	20501090	Water	02/08/2007	16:25	02/09/2007	16:15
RB-02 (020807)	20501091	Water	02/08/2007	09:30	02/09/2007	16:15
TB-05 (020807)	20501092	Water	02/08/2007		02/09/2007	16:15
FB-02 (020807)	20501093	Water	02/08/2007	10:00	02/09/2007	16:15

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Project: **2066695**

Narrative detail for GC semi-volatilves analyses:

Several of the herbicide continuing calibrations were high biased for dinoseb on one of the GC columns for batch 82241.

The majority of associated samples had no hits for dinoseb. Results for samples with confirmed hits were based on the unbiased column.

Dinoseb is a poor performer by this method; QC recovery data may be poor or erratic as demonstrated by performance-based statistical evaluation.

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Project Narrative

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LELAP # 02006

Project: **2066695**

Sample Receipt Condition:

All samples were received in accordance with EPA protocol.

Holding Times:

All holding times were met.

Blanks:

All blank results were below reporting limits.

Laboratory Control Samples:

LCS recoveries outside of QC limits are qualified in the Report of Quality Control section.

Matrix Spikes and Duplicates:

MS or MSD recoveries outside of QC limits are qualified in the Report of Quality Control section.

Surrogates:

Surrogate recoveries outside of QC limits are qualified in the surrogate results section.

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LELAP # 02006

Project: 2066695

Analytical Method	Batch	Sample used for QC
EPA 8151	82241	Client sample MW1A (020707) from project 2066632
EPA 8081	82271	Project sample PZ-22A (020807)
EPA 6010	82214	Project sample PZ-22A (020807)
EPA 6010	82352	Project sample PZ-22A (020807)
EPA 8270	82240	Client sample MW1A (020707) from project 2066632
EPA 8260	82231	Client sample MW1A (020707) from project 2066632
EPA 8260	82366	Project sample MW-11 (020807)

For the sample used as the original for the DUP or MS/MSD for the batch:

Project sample means a sample from this project was used.
Client sample means a sample from the same client but in a different project was used.
Batch sample means a sample from the a different client was used.

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Report of Laboratory Analysis

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-22A (020807) **Site:** None

Project: MS BLUFFS/LA002656.000.00013 **Project No.:** 2066695 **Sample Qu:**

Lab ID: 20501082 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82231

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/08/07 **Received:** 02/09/07

Prep Factor: 1 **Prepared:** 02/11/07 **Analyzed:** 02/11/07 20:10 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	0.860 J		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

3/6/2007 09:50:12

ND denotes Not Detected at or above the adjusted reporting limit.
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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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Report of Laboratory Analysis

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-22A (020807) **Site:** None

Project: MS BLUFFS/LA002656.000.00013 **Project No.:** 2066695 **Sample Qu:**

Lab ID: 20501082 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82231

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/08/07 **Received:** 02/09/07

Prep Factor: 1 **Prepared:** 02/11/07 **Analyzed:** 02/11/07 20:10 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	ND	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-22A (020807) **Site:** None

Project: MS BLUFFS/LA002656.000.00013 **Project No.:** 2066695 **Sample Qu:**

Lab ID: 20501082 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82240

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 02/08/07 **Received:** 02/09/07

Prep Factor: 1 **Prepared:** 02/13/07 **Analyzed:** 02/14/07 19:33 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: PZ-22B (020807) **Site:** None

Project: MS BLUFFS/LA002656.000.00013 **Project No.:** 2066695 **Sample Qu:**

Lab ID: 20501083 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82231

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/08/07 **Received:** 02/09/07

Prep Factor: 1 **Prepared:** 02/11/07 **Analyzed:** 02/11/07 20:48 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	20	ND	D2	118.	200.	
75-05-8	Acetonitrile	20	ND	D2	249.	2000	
107-02-8	Acrolein	20	ND	D2	182.	400.	
107-13-1	Acrylonitrile	20	ND	D2	98.0	400.	
107-05-1	Allyl chloride	20	ND	D2	31.2	200.	
71-43-2	Benzene	20	ND	D2	2.34	100.	
75-27-4	Bromodichloromethane	20	124.	D2	4.12	100.	
75-25-2	Bromoform	20	171.	D2	5.18	100.	
74-83-9	Bromomethane	20	ND	D2	38.7	100.	
78-93-3	2-Butanone (MEK)	20	ND	D2	45.0	200.	
75-15-0	Carbon disulfide	20	ND	D2	5.13	100.	
56-23-5	Carbon tetrachloride	20	ND	D2	11.8	100.	
108-90-7	Chlorobenzene	20	ND	D2	2.38	100.	
75-00-3	Chloroethane	20	ND	D2	12.9	100.	
67-66-3	Chloroform	200	11200		95.8	1000	
74-87-3	Chloromethane	20	ND	D2	6.10	100.	
126-99-8	Chloroprene	20	ND	D2	15.7	100.	
96-12-8	1,2-Dibromo-3-chloropropane	20	ND	D2	24.4	100.	
124-48-1	Dibromochloromethane	20	70.0	J D2	2.91	100.	
106-93-4	1,2-Dibromoethane (EDB)	20	ND	D2	13.4	100.	
74-95-3	Dibromomethane	20	ND	D2	27.7	100.	
110-57-6	trans-1,4-Dichloro-2-butene	20	ND	D2	37.3	100.	
75-71-8	Dichlorodifluoromethane	20	ND	D2	16.4	100.	
75-34-3	1,1-Dichloroethane	20	22.4	J D2	10.3	100.	
107-06-2	1,2-Dichloroethane	20	ND	D2	4.25	100.	
75-35-4	1,1-Dichloroethene	20	ND	D2	9.86	100.	
156-60-5	trans-1,2-Dichloroethene	20	ND	D2	14.7	100.	
78-87-5	1,2-Dichloropropane	20	ND	D2	6.56	100.	
10061-01-5	cis-1,3-Dichloropropene	20	ND	D2	1.74	100.	
10061-02-6	trans-1,3-Dichloropropene	20	ND	D2	4.33	100.	
123-91-1	1,4-Dioxane (p-Dioxane)	20	ND	D2	337.	5000	
100-41-4	Ethylbenzene	20	ND	D2	2.39	100.	
97-63-2	Ethyl methacrylate	20	ND	D2	9.51	200.	

3/6/2007 09:50:12

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-22B (020807) **Site:** None

Project: MS BLUFFS/LA002656.000.00013 **Project No.:** 2066695 **Sample Qu:**

Lab ID: 20501083 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82231

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/08/07 **Received:** 02/09/07

Prep Factor: 1 **Prepared:** 02/11/07 **Analyzed:** 02/11/07 20:48 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	20	ND	D2	9.36	200.	
74-88-4	Iodomethane	20	ND	D2	12.4	100.	
78-83-1	Isobutanol	20	ND	D2	374.	5000	
126-98-7	Methacrylonitrile	20	ND	D2	325.	2000	
75-09-2	Methylene chloride	20	39.6	J D2	14.2	100.	
80-62-6	Methyl methacrylate	20	ND	D2	19.9	200.	
108-10-1	4-Methyl-2-pentanone (MIBK)	20	ND	D2	17.4	200.	
107-12-0	Propionitrile	20	ND	D2	127.	400.	
100-42-5	Styrene	20	ND	D2	1.53	100.	
630-20-6	1,1,1,2-Tetrachloroethane	20	ND	D2	5.82	100.	
79-34-5	1,1,2,2-Tetrachloroethane	20	ND	D2	4.77	100.	
127-18-4	Tetrachloroethene	20	ND	D2	3.25	100.	
108-88-3	Toluene	20	ND	D2	2.61	100.	
71-55-6	1,1,1-Trichloroethane	20	ND	D2	12.2	100.	
79-00-5	1,1,2-Trichloroethane	20	ND	D2	6.56	100.	
79-01-6	Trichloroethene	20	ND	D2	3.37	100.	
75-69-4	Trichlorofluoromethane	20	ND	D2	31.4	100.	
96-18-4	1,2,3-Trichloropropane	20	ND	D2	29.8	100.	
95-63-6	1,2,4-Trimethylbenzene	20	ND	D2	1.69	100.	
108-67-8	1,3,5-Trimethylbenzene	20	ND	D2	1.23	100.	
108-05-4	Vinyl acetate	20	ND	D2	13.7	200.	
75-01-4	Vinyl chloride	20	ND	D2	9.27	100.	
	m&p-Xylene	20	ND	D2	3.02	100.	
95-47-6	o-Xylene	20	ND	D2	2.83	100.	

57 compound(s) reported

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New Orleans Laboratory

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-22B (020807) **Site:** None

Project: MS BLUFFS/LA002656.000.00013 **Project No.:** 2066695 **Sample Qu:**

Lab ID: 20501083 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82240

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 02/08/07 **Received:** 02/09/07

Prep Factor: 1 **Prepared:** 02/13/07 **Analyzed:** 02/14/07 16:26 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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3/6/2007 09:50:13

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Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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Client: Arcadis Geraghty & Miller

Client ID: PZ-26A (020807) **Site:** None

Project: MS BLUFFS/LA002656.000.00013 **Project No.:** 2066695 **Sample Qu:**

Lab ID: 20501084 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82231

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/08/07 **Received:** 02/09/07

Prep Factor: 1 **Prepared:** 02/11/07 **Analyzed:** 02/11/07 20:29 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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Client: Arcadis Geraghty & Miller

Client ID: PZ-26A (020807) **Site:** None

Project: MS BLUFFS/LA002656.000.00013 **Project No.:** 2066695 **Sample Qu:**

Lab ID: 20501084 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82231

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/08/07 **Received:** 02/09/07

Prep Factor: 1 **Prepared:** 02/11/07 **Analyzed:** 02/11/07 20:29 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	ND	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

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Client ID: PZ-26A (020807) **Site:** None

Project: MS BLUFFS/LA002656.000.00013 **Project No.:** 2066695 **Sample Qu:**

Lab ID: 20501084 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82240

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 02/08/07 **Received:** 02/09/07

Prep Factor: 1 **Prepared:** 02/13/07 **Analyzed:** 02/14/07 20:00 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: PZ-26B (020807) **Site:** None

Project: MS BLUFFS/LA002656.000.00013 **Project No.:** 2066695 **Sample Qu:**

Lab ID: 20501086 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82231

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/08/07 **Received:** 02/09/07

Prep Factor: 1 **Prepared:** 02/11/07 **Analyzed:** 02/11/07 21:07 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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Client ID: PZ-26B (020807) **Site:** None

Project: MS BLUFFS/LA002656.000.00013 **Project No.:** 2066695 **Sample Qu:**

Lab ID: 20501086 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82231

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/08/07 **Received:** 02/09/07

Prep Factor: 1 **Prepared:** 02/11/07 **Analyzed:** 02/11/07 21:07 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	ND	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

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Project: MS BLUFFS/LA002656.000.00013 **Project No.:** 2066695 **Sample Qu:**

Lab ID: 20501086 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82240

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 02/08/07 **Received:** 02/09/07

Prep Factor: 1 **Prepared:** 02/13/07 **Analyzed:** 02/14/07 20:27 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: PZ-23B (020807) **Site:** None

Project: MS BLUFFS/LA002656.000.00013 **Project No.:** 2066695 **Sample Qu:**

Lab ID: 20501087 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82231

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/08/07 **Received:** 02/09/07

Prep Factor: 1 **Prepared:** 02/11/07 **Analyzed:** 02/11/07 21:27 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	0.900 J		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	14.1		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-23B (020807) **Site:** None

Project: MS BLUFFS/LA002656.000.00013 **Project No.:** 2066695 **Sample Qu:**

Lab ID: 20501087 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82231

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/08/07 **Received:** 02/09/07

Prep Factor: 1 **Prepared:** 02/11/07 **Analyzed:** 02/11/07 21:27 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	ND	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-23B (020807) **Site:** None

Project: MS BLUFFS/LA002656.000.00013 **Project No.:** 2066695 **Sample Qu:**

Lab ID: 20501087 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82240

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 02/08/07 **Received:** 02/09/07

Prep Factor: 1 **Prepared:** 02/13/07 **Analyzed:** 02/14/07 20:54 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-11 (020807) **Site:** None

Project: MS BLUFFS/LA002656.000.00013 **Project No.:** 2066695 **Sample Qu:**

Lab ID: 20501088 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82366

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/08/07 **Received:** 02/09/07

Prep Factor: 1 **Prepared:** 02/15/07 **Analyzed:** 02/15/07 19:24 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-11 (020807) **Site:** None

Project: MS BLUFFS/LA002656.000.00013 **Project No.:** 2066695 **Sample Qu:**

Lab ID: 20501088 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82366

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/08/07 **Received:** 02/09/07

Prep Factor: 1 **Prepared:** 02/15/07 **Analyzed:** 02/15/07 19:24 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	ND	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	5.78		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-11 (020807) **Site:** None

Project: MS BLUFFS/LA002656.000.00013 **Project No.:** 2066695 **Sample Qu:**

Lab ID: 20501088 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82240

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 02/08/07 **Received:** 02/09/07

Prep Factor: 1 **Prepared:** 02/13/07 **Analyzed:** 02/14/07 21:21 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-10 (020807) **Site:** None

Project: MS BLUFFS/LA002656.000.00013 **Project No.:** 2066695 **Sample Qu:**

Lab ID: 20501089 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82366

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/08/07 **Received:** 02/09/07

Prep Factor: 1 **Prepared:** 02/15/07 **Analyzed:** 02/15/07 20:23 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-10 (020807) **Site:** None

Project: MS BLUFFS/LA002656.000.00013 **Project No.:** 2066695 **Sample Qu:**

Lab ID: 20501089 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82366

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/08/07 **Received:** 02/09/07

Prep Factor: 1 **Prepared:** 02/15/07 **Analyzed:** 02/15/07 20:23 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	ND	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

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ND denotes Not Detected at or above the adjusted reporting limit.
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Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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New Orleans Laboratory

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-10 (020807) **Site:** None

Project: MS BLUFFS/LA002656.000.00013 **Project No.:** 2066695 **Sample Qu:**

Lab ID: 20501089 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82240

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 02/08/07 **Received:** 02/09/07

Prep Factor: 1 **Prepared:** 02/13/07 **Analyzed:** 02/14/07 21:48 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Pace Analytical® New Orleans Laboratory

Client: Arcadis Geraghty & Miller

Client ID: MW-10C (020807) **Site:** None

Project: MS BLUFFS/LA002656.000.00013 **Project No.:** 2066695 **Sample Qu:**

Lab ID: 20501090 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82366

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/08/07 **Received:** 02/09/07

Prep Factor: 1 **Prepared:** 02/15/07 **Analyzed:** 02/15/07 20:42 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	243.		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	5	430.		2.40	25.0	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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Report of Laboratory Analysis

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-10C (020807) **Site:** None

Project: MS BLUFFS/LA002656.000.00013 **Project No.:** 2066695 **Sample Qu:**

Lab ID: 20501090 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82366

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/08/07 **Received:** 02/09/07

Prep Factor: 1 **Prepared:** 02/15/07 **Analyzed:** 02/15/07 20:42 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	ND	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	1.58	J	0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	1.68	J	0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	1.24	J	0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

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LELAP # 02006

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Client: Arcadis Geraghty & Miller

Client ID: MW-10C (020807) **Site:** None

Project: MS BLUFFS/LA002656.000.00013 **Project No.:** 2066695 **Sample Qu:**

Lab ID: 20501090 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82240

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 02/08/07 **Received:** 02/09/07

Prep Factor: 1 **Prepared:** 02/13/07 **Analyzed:** 02/14/07 16:53 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: RB-02 (020807) **Site:** None

Project: MS BLUFFS/LA002656.000.00013 **Project No.:** 2066695 **Sample Qu:**

Lab ID: 20501091 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82366

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/08/07 **Received:** 02/09/07

Prep Factor: 1 **Prepared:** 02/15/07 **Analyzed:** 02/15/07 21:04 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: RB-02 (020807) **Site:** None

Project: MS BLUFFS/LA002656.000.00013 **Project No.:** 2066695 **Sample Qu:**

Lab ID: 20501091 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82366

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/08/07 **Received:** 02/09/07

Prep Factor: 1 **Prepared:** 02/15/07 **Analyzed:** 02/15/07 21:04 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	ND	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: RB-02 (020807) **Site:** None

Project: MS BLUFFS/LA002656.000.00013 **Project No.:** 2066695 **Sample Qu:**

Lab ID: 20501091 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82240

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 02/08/07 **Received:** 02/09/07

Prep Factor: 1 **Prepared:** 02/15/07 **Analyzed:** 02/19/07 14:14 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	14.9		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: TB-05 (020807) **Site:** None

Project: MS BLUFFS/LA002656.000.00013 **Project No.:** 2066695 **Sample Qu:**

Lab ID: 20501092 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82366

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/08/07 **Received:** 02/09/07

Prep Factor: 1 **Prepared:** 02/15/07 **Analyzed:** 02/15/07 21:23 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: TB-05 (020807) **Site:** None

Project: MS BLUFFS/LA002656.000.00013 **Project No.:** 2066695 **Sample Qu:**

Lab ID: 20501092 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82366

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/08/07 **Received:** 02/09/07

Prep Factor: 1 **Prepared:** 02/15/07 **Analyzed:** 02/15/07 21:23 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	4.47	J A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: FB-02 (020807) **Site:** None

Project: MS BLUFFS/LA002656.000.00013 **Project No.:** 2066695 **Sample Qu:**

Lab ID: 20501093 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82366

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/08/07 **Received:** 02/09/07

Prep Factor: 1 **Prepared:** 02/15/07 **Analyzed:** 02/15/07 21:42 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: FB-02 (020807) **Site:** None

Project: MS BLUFFS/LA002656.000.00013 **Project No.:** 2066695 **Sample Qu:**

Lab ID: 20501093 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82366

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/08/07 **Received:** 02/09/07

Prep Factor: 1 **Prepared:** 02/15/07 **Analyzed:** 02/15/07 21:42 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	ND	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: PZ-22A (020807) **Site:** None

Project: MS BLUFFS/LA002656.000.00013 **Project No.:** 2066695 **Sample Qu:**

Lab ID: 20501082 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82271

Method: 8081 Pests Water **Units:** ug/L **Target List:** 8081_WL20

Collected: 02/08/07 **Received:** 02/09/07

Prep Factor: 1 **Prepared:** 02/13/07 **Analyzed:** 02/16/07 15:53 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-22A (020807) **Site:** None

Project: MS BLUFFS/LA002656.000.00013 **Project No.:** 2066695 **Sample Qu:**

Lab ID: 20501082 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82241

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 02/08/07 **Received:** 02/09/07

Prep Factor: 1 **Prepared:** 02/14/07 **Analyzed:** 02/23/07 11:30 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND	N	0.224	2.00	

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-22B (020807) **Site:** None

Project: MS BLUFFS/LA002656.000.00013 **Project No.:** 2066695 **Sample Qu:**

Lab ID: 20501083 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82271

Method: 8081 Pests Water **Units:** ug/L **Target List:** 8081_WL20

Collected: 02/08/07 **Received:** 02/09/07

Prep Factor: 1 **Prepared:** 02/13/07 **Analyzed:** 02/19/07 18:17 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

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DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
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Client: Arcadis Geraghty & Miller

Client ID: PZ-22B (020807) **Site:** None

Project: MS BLUFFS/LA002656.000.00013 **Project No.:** 2066695 **Sample Qu:**

Lab ID: 20501083 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82241

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 02/08/07 **Received:** 02/09/07

Prep Factor: 1 **Prepared:** 02/14/07 **Analyzed:** 02/24/07 18:10 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND		0.224	2.00	

1 compound(s) reported

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Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health .Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-26A (020807) **Site:** None

Project: MS BLUFFS/LA002656.000.00013 **Project No.:** 2066695 **Sample Qu:**

Lab ID: 20501084 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82271

Method: 8081 Pests Water **Units:** ug/L **Target List:** 8081_WL20

Collected: 02/08/07 **Received:** 02/09/07

Prep Factor: 1 **Prepared:** 02/13/07 **Analyzed:** 02/16/07 16:59 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Client: Arcadis Geraghty & Miller

Client ID: PZ-26A (020807) **Site:** None

Project: MS BLUFFS/LA002656.000.00013 **Project No.:** 2066695 **Sample Qu:**

Lab ID: 20501084 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82241

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 02/08/07 **Received:** 02/09/07

Prep Factor: 1 **Prepared:** 02/14/07 **Analyzed:** 02/23/07 12:25 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND	N	0.224	2.00	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: PZ-26B (020807) **Site:** None

Project: MS BLUFFS/LA002656.000.00013 **Project No.:** 2066695 **Sample Qu:**

Lab ID: 20501086 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82271

Method: 8081 Pests Water **Units:** ug/L **Target List:** 8081_WL20

Collected: 02/08/07 **Received:** 02/09/07

Prep Factor: 1 **Prepared:** 02/13/07 **Analyzed:** 02/16/07 17:15 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
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Client: Arcadis Geraghty & Miller

Client ID: PZ-26B (020807) **Site:** None

Project: MS BLUFFS/LA002656.000.00013 **Project No.:** 2066695 **Sample Qu:**

Lab ID: 20501086 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82241

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 02/08/07 **Received:** 02/09/07

Prep Factor: 1 **Prepared:** 02/14/07 **Analyzed:** 02/23/07 12:52 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND	N	0.224	2.00	

1 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-23B (020807) **Site:** None

Project: MS BLUFFS/LA002656.000.00013 **Project No.:** 2066695 **Sample Qu:**

Lab ID: 20501087 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82271

Method: 8081 Pests Water **Units:** ug/L **Target List:** 8081_WL20

Collected: 02/08/07 **Received:** 02/09/07

Prep Factor: 1 **Prepared:** 02/13/07 **Analyzed:** 02/16/07 17:32 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

3/6/2007 09:50:21

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Client: Arcadis Geraghty & Miller

Client ID: PZ-23B (020807) **Site:** None

Project: MS BLUFFS/LA002656.000.00013 **Project No.:** 2066695 **Sample Qu:**

Lab ID: 20501087 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82241

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 02/08/07 **Received:** 02/09/07

Prep Factor: 1 **Prepared:** 02/14/07 **Analyzed:** 02/23/07 13:20 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND	N	0.224	2.00	

1 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-11 (020807) **Site:** None

Project: MS BLUFFS/LA002656.000.00013 **Project No.:** 2066695 **Sample Qu:**

Lab ID: 20501088 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82271

Method: 8081 Pests Water **Units:** ug/L **Target List:** 8081_WL20

Collected: 02/08/07 **Received:** 02/09/07

Prep Factor: 1 **Prepared:** 02/13/07 **Analyzed:** 02/16/07 17:48 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-11 (020807) **Site:** None

Project: MS BLUFFS/LA002656.000.00013 **Project No.:** 2066695 **Sample Qu:**

Lab ID: 20501088 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82241

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 02/08/07 **Received:** 02/09/07

Prep Factor: 1 **Prepared:** 02/14/07 **Analyzed:** 02/23/07 13:47 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	13.0	N	0.224	2.00	

1 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-10 (020807) **Site:** None

Project: MS BLUFFS/LA002656.000.00013 **Project No.:** 2066695 **Sample Qu:**

Lab ID: 20501089 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82271

Method: 8081 Pests Water **Units:** ug/L **Target List:** 8081_WL20

Collected: 02/08/07 **Received:** 02/09/07

Prep Factor: 1 **Prepared:** 02/13/07 **Analyzed:** 02/16/07 18:05 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-10 (020807)
Site: None
Project: MS BLUFFS/LA002656.000.00013
Project No.: 2066695
Sample Qu:
Lab ID: 20501089
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 82241
Method: 8151 Herbs Water
Units: ug/L
Target List: 8151_WL20
Collected: 02/08/07
Received: 02/09/07
Prep Factor: 1
Prepared: 02/14/07
Analyzed: 02/23/07 15:10 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND	N	0.224	2.00	

1 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-10C (020807)
Site: None
Project: MS BLUFFS/LA002656.000.00013
Project No.: 2066695
Sample Qu:
Lab ID: 20501090
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 82271
Method: 8081 Pests Water
Units: ug/L
Target List: 8081_WL20
Collected: 02/08/07
Received: 02/09/07
Prep Factor: 1
Prepared: 02/13/07
Analyzed: 02/19/07 18:33 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-10C (020807) **Site:** None

Project: MS BLUFFS/LA002656.000.00013 **Project No.:** 2066695 **Sample Qu:**

Lab ID: 20501090 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82241

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 02/08/07 **Received:** 02/09/07

Prep Factor: 1 **Prepared:** 02/14/07 **Analyzed:** 02/28/07 00:17 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1000	2320	D1	224.	2000	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: RB-02 (020807)
Site: None
Project: MS BLUFFS/LA002656.000.00013
Project No.: 2066695
Sample Qu:
Lab ID: 20501091
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 82271
Method: 8081 Pests Water
Units: ug/L
Target List: 8081_WL20
Collected: 02/08/07
Received: 02/09/07
Prep Factor: 1
Prepared: 02/13/07
Analyzed: 02/16/07 18:38 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

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		Client:	Arcadis Geraghty & Miller		
Client ID:	RB-02 (020807)	**Site:**	None		
Project:	MS BLUFFS/LA002656.000.00013	**Project No.:**	2066695	**Sample Qu:**	
Lab ID:	20501091	**Matrix:**	Water	**% Moisture:**	n/a
Description:	None	**Prep Level:**	Water	**Batch:**	82241
Method:	8151 Herbs Water	**Units:**	ug/L	**Target List:**	8151_WL20
		Collected:	02/08/07	**Received:**	02/09/07
Prep Factor:	1	**Prepared:**	02/14/07	**Analyzed:**	02/24/07 19:04 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	10	ND	D2	2.24	20.0	

1 compound(s) reported

3/6/2007 09:50:21

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit denotes an actual regulatory limit or a client-requested notification limit.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: PZ-22A (020807)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.000.00013
Site: None
Lab ID: 20501082
Project No.: 2066695
Description: None
Matrix: Water
%Moisture: n/a
Collected: 02/08/07
Received: 02/09/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
Arsenic	EPA 6010	82214	1	34.0		ug/L	6.05	10.0	02/10	03/05 11:47 KJR (1)	
Arsenic, Dissolved	EPA 6010	82352	1	26.0		ug/L	5.12	10.0	02/16	03/05 10:27 KJR (1)	

2 parameter(s) reported

3/6/2007 09:50:24

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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LELAP # 02006

Client ID: PZ-22B (020807)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.000.00013
Site: None
Lab ID: 20501083
Project No.: 2066695
Description: None
Matrix: Water
%Moisture: n/a
Collected: 02/08/07
Received: 02/09/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82214	1	21.5		ug/L	6.05	10.0	02/10	03/05 12:05	KJR (1)	
Arsenic, Dissolved	EPA 6010	82352	1	17.7		ug/L	5.12	10.0	02/16	03/05 10:47	KJR (1)	

2 parameter(s) reported

3/6/2007 09:50:24

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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LELAP # 02006

Client ID: PZ-26A (020807)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.000.00013
Site: None
Lab ID: 20501084
Project No.: 2066695
Description: None
Matrix: Water
%Moisture: n/a
Collected: 02/08/07
Received: 02/09/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
Arsenic	EPA 6010	82214	1	28.8		ug/L	6.05	10.0	02/10	03/05 12:40 KJR (1)	
Arsenic, Dissolved	EPA 6010	82352	1	40.5		ug/L	5.12	10.0	02/16	03/05 10:52 KJR (1)	

2 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/6/2007 09:50:25

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LELAP # 02006

Client ID: PZ-26B (020807)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.000.00013
Site: None
Lab ID: 20501086
Project No.: 2066695
Description: None
Matrix: Water
%Moisture: n/a
Collected: 02/08/07
Received: 02/09/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82214	1	49.7		ug/L	6.05	10.0	02/10	03/05 12:45	KJR (1)	
Arsenic, Dissolved	EPA 6010	82352	1	31.5		ug/L	5.12	10.0	02/16	03/05 10:56	KJR (1)	

2 parameter(s) reported

3/6/2007 09:50:25

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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LELAP # 02006

Client ID: PZ-23B (020807)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.000.00013
Site: None
Lab ID: 20501087
Project No.: 2066695
Description: None
Matrix: Water
%Moisture: n/a
Collected: 02/08/07
Received: 02/09/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82214	1	66.1		ug/L	6.05	10.0	02/10	03/05 12:49	KJR (1)	
Arsenic, Dissolved	EPA 6010	82352	1	28.0		ug/L	5.12	10.0	02/16	03/05 11:01	KJR (1)	

2 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
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Phone: 504.469.0333
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LELAP # 02006

Client ID: MW-11 (020807)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.000.00013
Site: None
Lab ID: 20501088
Project No.: 2066695
Description: None
Matrix: Water
%Moisture: n/a
Collected: 02/08/07
Received: 02/09/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82214	1	29.8		ug/L	6.05	10.0	02/10	03/05 12:54	KJR (1)	
Arsenic, Dissolved	EPA 6010	82352	1	33.4		ug/L	5.12	10.0	02/16	03/05 11:21	KJR (1)	

2 parameter(s) reported

3/6/2007 09:50:25

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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LELAP # 02006

Client ID: MW-10 (020807)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.000.00013
Site: None
Lab ID: 20501089
Project No.: 2066695
Description: None
Matrix: Water
%Moisture: n/a
Collected: 02/08/07
Received: 02/09/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
Arsenic	EPA 6010	82214	1	39.4		ug/L	6.05	10.0	02/10	03/05 12:59 KJR (1)	
Arsenic, Dissolved	EPA 6010	82352	1	25.5		ug/L	5.12	10.0	02/16	03/05 11:26 KJR (1)	

2 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/6/2007 09:50:25

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: MW-10C (020807)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.000.00013
Site: None
Lab ID: 20501090
Project No.: 2066695
Description: None
Matrix: Water
%Moisture: n/a
Collected: 02/08/07
Received: 02/09/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
Arsenic	EPA 6010	82214	1	22.8		ug/L	6.05	10.0	02/10	03/05 13:03 KJR (1)	
Arsenic, Dissolved	EPA 6010	82352	1	22.6		ug/L	5.12	10.0	02/16	03/05 11:33 KJR (1)	

2 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/6/2007 09:50:25

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: RB-02 (020807)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.000.00013
Site: None
Lab ID: 20501091
Project No.: 2066695
Description: None
Matrix: Water
%Moisture: n/a
Collected: 02/08/07
Received: 02/09/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
Arsenic	EPA 6010	82214	1	ND		ug/L	6.05	10.0	02/10	03/05 13:08 KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/6/2007 09:50:25

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Report of Quality Control

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Method: EPA 8260 **Project:** 2066695 **LCS:** 20501271 2/11/2007 2:24:00 PM

Batch: 82231 **MS:** 20501272 2/11/2007 6:15:00 PM

Units: ug/L **Original for MS:** 20500675 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Acetone	50	63.19		126			50	0.00	58.7	62.42	117	125	6	22 - 165	11 - 171	20	A11
Acetonitrile	550	907.4		165			550	0.00	912.5	864	166	157	5	15 - 171	10 - 182	20	
Acrolein	100	62.8		63			100	0.00	68.2	71.05	68	71	4	10 - 150	10 - 150	20	
Acrylonitrile	150	132.8		89			150	0.00	166.5	174.7	111	117	5	10 - 150	10 - 150	20	
Allyl chloride	100	88.35		88			100	0.00	89.89	84.76	90	85	6	30 - 155	34 - 153	20	
Benzene	50	43.76		88			50	0.00	44.35	42.62	89	85	4	70 - 135	60 - 144	20	
Bromodichloromethane	50	43.85		88			50	0.00	46.68	46.74	93	94	0	61 - 156	59 - 156	20	
Bromoform	50	52.9		106			50	0.00	60.48	60.56	121	121	0	56 - 154	50 - 153	20	
Bromomethane	50	32.07		64			50	0.00	33.61	35.06	67	70	4	44 - 158	37 - 165	20	
2-Butanone (MEK)	50	62.27		125			50	0.00	61.17	68.2	122	136	11	32 - 157	20 - 168	20	A11
Carbon disulfide	50	41.31		83			50	0.00	38.5	35.09	77	70	9	40 - 147	36 - 152	20	
Carbon tetrachloride	50	49.04		98			50	0.00	45.65	42.06	91	84	8	50 - 166	44 - 170	20	
Chlorobenzene	50	46.33		93			50	0.00	47.62	47.57	95	95	0	73 - 129	67 - 134	20	
Chloroethane	50	31.91		64			50	0.00	29.64	30.53	59	61	3	38 - 163	34 - 170	20	
Chloroform	50	50.96		102			50	0.66	53.62	52.08	106	103	3	71 - 133	64 - 140	20	
Chloromethane	50	27.66		55			50	0.00	27.62	28.99	55	58	5	32 - 149	22 - 163	20	
Chloroprene	50	52.74		105			50	0.00	52.03	50.65	104	101	3	50 - 141	51 - 134	20	
1,2-Dibromo-3-chloropropa	50	45.37		91			50	0.00	51.95	51.11	104	102	2	34 - 145	28 - 150	20	
Dibromochloromethane	50	48.26		97			50	0.00	51.29	51.01	103	102	1	63 - 147	58 - 147	20	
1,2-Dibromoethane (EDB)	50	52.75		106			50	0.00	61.71	65.46	123	131	6	60 - 147	55 - 149	20	
Dibromomethane	50	46.28		93			50	0.00	52.32	54.33	105	109	4	60 - 147	56 - 148	20	
trans-1,4-Dichloro-2-butene	100	83.84		84			100	0.00	94.41	91.66	94	92	3	17 - 178	21 - 164	20	
1,1-Dichloroethane	50	47.81		96			50	0.00	49.29	47.46	99	95	4	64 - 135	59 - 142	20	
1,2-Dichloroethane	50	44.31		89			50	0.00	49.12	48.66	98	97	1	53 - 164	51 - 161	20	
1,1-Dichloroethene	50	49.1		98			50	0.00	49.7	45.17	99	90	10	51 - 143	44 - 152	20	
trans-1,2-Dichloroethene	50	49.24		99			50	0.00	50.18	46.83	100	94	7	59 - 139	56 - 145	20	
1,2-Dichloropropane	50	43.91		88			50	0.00	45.85	45.3	92	91	1	69 - 135	66 - 138	20	
cis-1,3-Dichloropropene	50	46.5		93			50	0.00	50	51.76	100	104	3	66 - 141	58 - 142	20	
trans-1,3-Dichloropropene	50	44.73		90			50	0.00	50.02	52.96	100	106	6	57 - 150	50 - 151	20	
1,4-Dioxane (p-Dioxane)	1050	1114		106			1050	0.00	1281	1656	122	158	26 *	17 - 176	19 - 172	20	
Ethylbenzene	50	43.23		87			50	0.00	42.68	42.72	85	85	0	67 - 132	58 - 138	20	
Ethyl methacrylate	100	98.26		98			100	0.00	113.5	121.1	114	121	6	57 - 143	45 - 170	20	
2-Hexanone	50	55.75		112			50	0.00	61.68	63.65	123	127	3	36 - 154	25 - 163	20	
Iodomethane	50	53.14		106			50	0.00	53.24	49.41	107	99	7	43 - 159	36 - 160	20	
Isobutanol	1050	1003		96			1050	0.00	1304	1484	124	141	13	32 - 160	26 - 169	20	
Methacrylonitrile	550	582.1		106			550	0.00	664.3	707.2	121	129	6	10 - 171	10 - 167	20	
Methylene chloride	50	63.82		128			50	0.00	63.45	60.57	127	121	5	29 - 159	19 - 158	20	A11
Methyl methacrylate	100	100.8		101			100	0.00	115.8	122.8	116	123	6	52 - 167	11 - 212	20	
4-Methyl-2-pentanone (MI	50	52.76		106			50	0.00	59.48	59.76	119	120	0	13 - 162	10 - 157	20	

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* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Method: EPA 8260 **Project:** 2066695 **LCS:** 20501271 2/11/2007 2:24:00 PM

Batch: 82231 **MS:** 20501272 2/11/2007 6:15:00 PM

Units: ug/L **Original for MS:** 20500675 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Propionitrile	550	557.7		101			550	0.00	680	738.9	124	134	8	23 - 159	25 - 158	20	
Styrene	50	47.13		94			50	0.00	49.07	50.2	98	100	2	71 - 134	54 - 144	20	
1,1,1,2-Tetrachloroethane	50	48.69		97			50	0.00	50.55	50.05	101	100	1	73 - 146	65 - 150	20	
1,1,2,2-Tetrachloroethane	50	45.85		92			50	0.00	52.75	51.71	106	103	2	50 - 142	46 - 145	20	
Tetrachloroethene	50	56.14		112			50	0.00	52.44	50.2	105	100	4	42 - 156	39 - 151	20	
Toluene	50	44.88		90			50	0.00	45.19	45.28	90	91	0	72 - 132	64 - 139	20	
1,1,1-Trichloroethane	50	50.34		101			50	0.00	48.05	45.45	96	91	6	65 - 136	59 - 141	20	
1,1,2-Trichloroethane	50	48.9		98			50	0.00	55.84	56.04	112	112	0	67 - 144	60 - 146	20	
Trichloroethene	50	49.62		99			50	6.95	55.71	55.35	98	97	1	69 - 136	61 - 141	20	
Trichlorofluoromethane	50	47.82		96			50	0.00	46.48	46.23	93	93	1	42 - 161	38 - 160	20	
1,2,3-Trichloropropane	50	49.3		99			50	0.00	58.09	55.52	116	111	5	52 - 152	51 - 151	20	
1,2,4-Trimethylbenzene	50	43.49		87			50	0.00	45.73	45.01	92	90	2	59 - 137	41 - 155	20	
1,3,5-Trimethylbenzene	50	41.57		83			50	0.00	43.38	42.66	87	85	2	69 - 135	55 - 150	20	
Vinyl acetate	50	129		258 *			50	0.00	135.2	139.1	270 *	278 *	3	21 - 190	10 - 185	20	Q10
Vinyl chloride	50	26.56		53			50	0.00	27.21	27.99	54	56	3	40 - 146	28 - 161	20	
m&p-Xylene	100	87.2		87			100	0.00	87.03	87.79	87	88	1	70 - 129	66 - 132	20	
o-Xylene	50	43.17		86			50	0.00	44.65	45.22	89	90	1	70 - 129	66 - 132	20	

56 compound(s) reported

*** denotes recovery outside of QC limits.**
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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LELAP # 02006

Method: EPA 8260 **Project:** 2066695 **LCS:** 20501605 2/14/2007 6:21:00 PM

Batch: 82231 **MS:**

Units: ug/L **Original for MS:**

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS		QC Limits MS/MSD	Max RPD	Qu
Acetone	50	43.77		88										22 - 165	-			A11
Acetonitrile	550	802.4		146										15 - 171	-			
Acrolein	100	50.21		50										10 - 150	-			
Acrylonitrile	150	132.8		89										10 - 150	-			
Allyl chloride	100	79.87		80										30 - 155	-			
Benzene	50	40.39		81										70 - 135	-			
Bromodichloromethane	50	42.52		85										61 - 156	-			
Bromoform	50	54.03		108										56 - 154	-			
Bromomethane	50	29.04		58										44 - 158	-			
2-Butanone (MEK)	50	46.76		94										32 - 157	-			A11
Carbon disulfide	50	35.64		71										40 - 147	-			
Carbon tetrachloride	50	42.02		84										50 - 166	-			
Chlorobenzene	50	49.52		99										73 - 129	-			
Chloroethane	50	10.11		20 *										38 - 163	-			
Chloroform	50	48.83		98										71 - 133	-			
Chloromethane	50	22.96		46										32 - 149	-			
Chloroprene	50	46.61		93										50 - 141	-			
1,2-Dibromo-3-chloropropa	50	46.2		92										34 - 145	-			
Dibromochloromethane	50	51.12		102										63 - 147	-			
1,2-Dibromoethane (EDB)	50	51.7		103										60 - 147	-			
Dibromomethane	50	46.65		93										60 - 147	-			
trans-1,4-Dichloro-2-butene	100	95.64		96										17 - 178	-			
1,1-Dichloroethane	50	43.91		88										64 - 135	-			
1,2-Dichloroethane	50	43.09		86										53 - 164	-			
1,1-Dichloroethene	50	42.86		86										51 - 143	-			
trans-1,2-Dichloroethene	50	46.24		93										59 - 139	-			
1,2-Dichloropropane	50	42.5		85										69 - 135	-			
cis-1,3-Dichloropropene	50	44.29		89										66 - 141	-			
trans-1,3-Dichloropropene	50	41.52		83										57 - 150	-			
1,4-Dioxane (p-Dioxane)	1050	987.2		94										17 - 176	-			
Ethylbenzene	50	44.98		90										67 - 132	-			
Ethyl methacrylate	100	90.47		91										57 - 143	-			
2-Hexanone	50	51.88		104										36 - 154	-			
Iodomethane	50	48.85		98										43 - 159	-			
Isobutanol	1050	961.7		92										32 - 160	-			
Methacrylonitrile	550	566.2		103										10 - 171	-			
Methylene chloride	50	58.5		117										29 - 159	-			A11
Methyl methacrylate	100	94.51		95										52 - 167	-			
4-Methyl-2-pentanone (MI	50	54.19		108										13 - 162	-			

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* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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LELAP # 02006

Method: EPA 8260 **Project:** 2066695 **LCS:** 20501605 2/14/2007 6:21:00 PM

Batch: 82231 **MS:**

Units: ug/L **Original for MS:**

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Propionitrile	550	539		98										23 - 159	-		
Styrene	50	49.63		99										71 - 134	-		
1,1,1,2-Tetrachloroethane	50	53.21		106										73 - 146	-		
1,1,2,2-Tetrachloroethane	50	60.87		122										50 - 142	-		
Tetrachloroethene	50	59.15		118										42 - 156	-		
Toluene	50	42.29		85										72 - 132	-		
1,1,1-Trichloroethane	50	44.74		90										65 - 136	-		
1,1,2-Trichloroethane	50	48.64		97										67 - 144	-		
Trichloroethene	50	45.55		91										69 - 136	-		
Trichlorofluoromethane	50	38.02		76										42 - 161	-		
1,2,3-Trichloropropane	50	65.52		131										52 - 152	-		
1,2,4-Trimethylbenzene	50	53.22		106										59 - 137	-		
1,3,5-Trimethylbenzene	50	51.94		104										69 - 135	-		
Vinyl acetate	50	119.3		239 *										21 - 190	-		Q10
Vinyl chloride	50	22.19		44										40 - 146	-		
m&p-Xylene	100	91.18		91										70 - 129	-		
o-Xylene	50	46.68		93										70 - 129	-		

56 compound(s) reported

*** denotes recovery outside of QC limits.**
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Method: EPA 8260 **Project:** 2066695 **LCS:** 20501903 2/15/2007 6:24:00 PM

Batch: 82366 **MS:** 20501906 2/15/2007 7:43:00 PM

Units: ug/L **Original for MS:** 20501088 Client Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Acetone	50	61.81		124			50	0.00	49.29	58.95	99	118	18	22 - 165	11 - 171	20	A11
Acetonitrile	550	841.6		153			550	0.00	835.9	858.1	152	156	3	15 - 171	10 - 182	20	
Acrolein	100	72.95		73			100	0.00	72.19	79.46	72	80	10	10 - 150	10 - 150	20	
Acrylonitrile	150	139.6		93			150	0.00	135.1	171.4	90	114	24 *	10 - 150	10 - 150	20	
Allyl chloride	100	84.48		85			100	0.00	84.08	85.89	84	86	2	30 - 155	34 - 153	20	
Benzene	50	42.48		85			50	0.00	41.42	42.1	83	84	2	70 - 135	60 - 144	20	
Bromodichloromethane	50	45.04		90			50	0.00	43.25	45.51	87	91	5	61 - 156	59 - 156	20	
Bromoform	50	60.17		120			50	0.00	61.59	64.65	123	129	5	56 - 154	50 - 153	20	
Bromomethane	50	45.05		90			50	0.00	36.99	32.8	74	66	12	44 - 158	37 - 165	20	
2-Butanone (MEK)	50	53.35		107			50	0.00	53.77	62.72	108	125	15	32 - 157	20 - 168	20	A11
Carbon disulfide	50	35		70			50	0.00	36.74	37.12	74	74	1	40 - 147	36 - 152	20	
Carbon tetrachloride	50	41.8		84			50	0.00	44.18	42.24	88	85	4	50 - 166	44 - 170	20	
Chlorobenzene	50	52.7		105			50	0.00	50.38	51.36	101	103	2	73 - 129	67 - 134	20	
Chloroethane	50	39.42		79			50	0.00	31.33	33	63	66	5	38 - 163	34 - 170	20	
Chloroform	50	50.29		101			50	0.00	49.63	51.81	99	104	4	71 - 133	64 - 140	20	
Chloromethane	50	42.2		84			50	0.00	34.57	35.82	69	72	4	32 - 149	22 - 163	20	
Chloroprene	50	49.38		99			50	0.00	48.29	50.76	97	102	5	50 - 141	51 - 134	20	
1,2-Dibromo-3-chloropropa	50	50.22		100			50	0.00	56.41	55.87	113	112	1	34 - 145	28 - 150	20	
Dibromochloromethane	50	53.36		107			50	0.00	55.3	55.44	111	111	0	63 - 147	58 - 147	20	
1,2-Dibromoethane (EDB)	50	57.64		115			50	0.00	55.15	62.17	110	124	12	60 - 147	55 - 149	20	
Dibromomethane	50	51.26		103			50	0.00	48.59	51.49	97	103	6	60 - 147	56 - 148	20	
trans-1,4-Dichloro-2-butene	100	103.6		104			100	0.00	106.9	107.3	107	107	0	17 - 178	21 - 164	20	
1,1-Dichloroethane	50	45.75		92			50	0.00	45.48	46.96	91	94	3	64 - 135	59 - 142	20	
1,2-Dichloroethane	50	44.59		89			50	0.00	45.57	47.13	91	94	3	53 - 164	51 - 161	20	
1,1-Dichloroethene	50	45.12		90			50	0.00	45.35	47.17	91	94	4	51 - 143	44 - 152	20	
trans-1,2-Dichloroethene	50	47.56		95			50	0.00	47.05	48.51	94	97	3	59 - 139	56 - 145	20	
1,2-Dichloropropane	50	44.01		88			50	0.00	43.33	43.73	87	88	1	69 - 135	66 - 138	20	
cis-1,3-Dichloropropene	50	49.2		98			50	0.00	45.63	48.68	91	97	6	66 - 141	58 - 142	20	
trans-1,3-Dichloropropene	50	47.64		95			50	0.00	44.5	49.8	89	100	11	57 - 150	50 - 151	20	
1,4-Dioxane (p-Dioxane)	1050	1233		117			1050	0.00	1181	1464	113	139	21 *	17 - 176	19 - 172	20	
Ethylbenzene	50	47.53		95			50	0.00	44.72	45.98	89	92	3	67 - 132	58 - 138	20	
Ethyl methacrylate	100	107.1		107			100	0.00	99.7	113.5	100	114	13	57 - 143	45 - 170	20	
2-Hexanone	50	59.66		119			50	0.00	65.96	70.76	132	142	7	36 - 154	25 - 163	20	
Iodomethane	50	49.37		99			50	0.00	51.65	52.5	103	105	2	43 - 159	36 - 160	20	
Isobutanol	1050	1176		112			1050	0.00	1185	1410	113	134	17	32 - 160	26 - 169	20	
Methacrylonitrile	550	588.9		107			550	0.00	601.5	670.2	109	122	11	10 - 171	10 - 167	20	
Methylene chloride	50	56.7		113			50	0.00	60.66	61.61	121	123	2	29 - 159	19 - 158	20	A11
Methyl methacrylate	100	105.6		106			100	0.00	102.7	114.2	103	114	11	52 - 167	11 - 212	20	
4-Methyl-2-pentanone (MI	50	57.48		115			50	0.00	63.23	65.71	127	131	4	13 - 162	10 - 157	20	

3/6/2007 09:50:29

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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LELAP # 02006

Method: EPA 8260 **Project:** 2066695 **LCS:** 20501903 2/15/2007 6:24:00 PM

Batch: 82366 **MS:** 20501906 2/15/2007 7:43:00 PM

Units: ug/L **Original for MS:** 20501088 Client Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Propionitrile	550	605.8		110			550	0.00	601	686.3	109	125	13	23 - 159	25 - 158	20	
Styrene	50	55.79		112			50	0.00	51.3	53.49	103	107	4	71 - 134	54 - 144	20	
1,1,1,2-Tetrachloroethane	50	54.66		109			50	0.00	54.57	55.47	109	111	2	73 - 146	65 - 150	20	
1,1,2,2-Tetrachloroethane	50	62.03		124			50	0.00	64.03	65.71	128	131	3	50 - 142	46 - 145	20	
Tetrachloroethene	50	59.31		119			50	0.00	55.78	53.91	112	108	3	42 - 156	39 - 151	20	
Toluene	50	45.84		92			50	0.00	41.39	43.85	83	88	6	72 - 132	64 - 139	20	
1,1,1-Trichloroethane	50	44.85		90			50	0.00	45.97	44.93	92	90	2	65 - 136	59 - 141	20	
1,1,2-Trichloroethane	50	53.71		107			50	0.00	50.52	54.72	101	109	8	67 - 144	60 - 146	20	
Trichloroethene	50	47.56		95			50	5.78	51.68	52.12	92	93	1	69 - 136	61 - 141	20	
Trichlorofluoromethane	50	57.73		115			50	0.00	49.89	50.94	100	102	2	42 - 161	38 - 160	20	
1,2,3-Trichloropropane	50	65.28		131			50	0.00	70.07	68.76	140	138	2	52 - 152	51 - 151	20	
1,2,4-Trimethylbenzene	50	57.2		114			50	0.00	52.08	53.11	104	106	2	59 - 137	41 - 155	20	
1,3,5-Trimethylbenzene	50	55.05		110			50	0.00	49.34	51.04	99	102	3	69 - 135	55 - 150	20	
Vinyl acetate	50	129.3		259 *			50	0.00	123.5	132.4	247 *	265 *	7	21 - 190	10 - 185	20	Q10
Vinyl chloride	50	38.95		78			50	0.00	32.85	34.42	66	69	5	40 - 146	28 - 161	20	
m&p-Xylene	100	98.62		99			100	0.00	91.73	94.39	92	94	3	70 - 129	66 - 132	20	
o-Xylene	50	50.48		101			50	0.00	47.03	48.28	94	97	3	70 - 129	66 - 132	20	

56 compound(s) reported

*** denotes recovery outside of QC limits.**
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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LELAP # 02006

Method: EPA 8260 **Project:** 2066695 **LCS:** 20502545 2/16/2007 12:33:00 PM

Batch: 82366 **MS:**

Units: ug/L **Original for MS:**

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Acetone	50	49.33		99										22 - 165	-		A11
Acetonitrile	550	894.5		163										15 - 171	-		
Acrolein	100	73.49		74										10 - 150	-		
Acrylonitrile	150	149.4		100										10 - 150	-		
Allyl chloride	100	86.67		87										30 - 155	-		
Benzene	50	42.59		85										70 - 135	-		
Bromodichloromethane	50	42.91		86										61 - 156	-		
Bromoform	50	58.88		118										56 - 154	-		
Bromomethane	50	33.76		68										44 - 158	-		
2-Butanone (MEK)	50	66.58		133										32 - 157	-		A11
Carbon disulfide	50	39.6		79										40 - 147	-		
Carbon tetrachloride	50	43.84		88										50 - 166	-		
Chlorobenzene	50	51.34		103										73 - 129	-		
Chloroethane	50	45.47		91										38 - 163	-		
Chloroform	50	49.14		98										71 - 133	-		
Chloromethane	50	50.06		100										32 - 149	-		
Chloroprene	50	52.61		105										50 - 141	-		
1,2-Dibromo-3-chloropropa	50	55.74		111										34 - 145	-		
Dibromochloromethane	50	50.38		101										63 - 147	-		
1,2-Dibromoethane (EDB)	50	56.4		113										60 - 147	-		
Dibromomethane	50	48.29		97										60 - 147	-		
trans-1,4-Dichloro-2-butene	100	106		106										17 - 178	-		
1,1-Dichloroethane	50	46.83		94										64 - 135	-		
1,2-Dichloroethane	50	44.37		89										53 - 164	-		
1,1-Dichloroethene	50	49.18		98										51 - 143	-		
trans-1,2-Dichloroethene	50	48.17		96										59 - 139	-		
1,2-Dichloropropane	50	42.69		85										69 - 135	-		
cis-1,3-Dichloropropene	50	48.1		96										66 - 141	-		
trans-1,3-Dichloropropene	50	47.78		96										57 - 150	-		
1,4-Dioxane (p-Dioxane)	1050	1256		120										17 - 176	-		
Ethylbenzene	50	47.5		95										67 - 132	-		
Ethyl methacrylate	100	111.2		111										57 - 143	-		
2-Hexanone	50	68.49		137										36 - 154	-		
Iodomethane	50	52.73		105										43 - 159	-		
Isobutanol	1050	1401		133										32 - 160	-		
Methacrylonitrile	550	624.6		114										10 - 171	-		
Methylene chloride	50	58.75		118										29 - 159	-		A11
Methyl methacrylate	100	110.8		111										52 - 167	-		
4-Methyl-2-pentanone (MI	50	61.11		122										13 - 162	-		

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* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Report of Quality Control

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Method: EPA 8260 **Project:** 2066695 **LCS:** 20502545 2/16/2007 12:33:00 PM

Batch: 82366 **MS:**

Units: ug/L **Original for MS:**

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Propionitrile	550	637.4		116										23 - 159	-		
Styrene	50	54.94		110										71 - 134	-		
1,1,1,2-Tetrachloroethane	50	52.73		105										73 - 146	-		
1,1,2,2-Tetrachloroethane	50	52.82		106										50 - 142	-		
Tetrachloroethene	50	59.09		118										42 - 156	-		
Toluene	50	44.65		89										72 - 132	-		
1,1,1-Trichloroethane	50	47.6		95										65 - 136	-		
1,1,2-Trichloroethane	50	50.57		101										67 - 144	-		
Trichloroethene	50	48.66		97										69 - 136	-		
Trichlorofluoromethane	50	64.66		129										42 - 161	-		
1,2,3-Trichloropropane	50	57.28		115										52 - 152	-		
1,2,4-Trimethylbenzene	50	50.83		102										59 - 137	-		
1,3,5-Trimethylbenzene	50	47.64		95										69 - 135	-		
Vinyl acetate	50	144.4		289 *										21 - 190	-		Q10
Vinyl chloride	50	45.02		90										40 - 146	-		
m&p-Xylene	100	97.25		97										70 - 129	-		
o-Xylene	50	49.44		99										70 - 129	-		

56 compound(s) reported

*** denotes recovery outside of QC limits.**
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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LELAP # 02006

Method: EPA 8270 **Project:** 2066695 **LCS:** 20501315 2/14/2007 1:19:00 PM

Batch: 82240 **MS:** 20501316 2/14/2007 1:46:00 PM

Units: ug/L **Original for MS:** 20500675 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
bis(2-Ethylhexyl)phthalate	50	34.87		70			50	0.00	36.59	56.41	73	113	43 *	30 - 154	16 - 145	20	
4-Nitrophenol	50	33.65		67			50	0.00	40.95	34.72	82	69	16	25 - 140	10 - 158	20	
Pentachlorophenol	50	36.16		72			50	16.03	53.65	51.96	75	72	3	32 - 133	24 - 147	20	

3 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Method: EPA 8270 **Project:** 2066695 **LCS:** 20502216 2/19/2007 12:00:00 PM

Batch: 82240 **MS:**

Units: ug/L **Original for MS:**

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
bis(2-Ethylhexyl)phthalate	50	27.72		55										30 - 154	-		
4-Nitrophenol	50	27.53		55										25 - 140	-		
Pentachlorophenol	50	31.71		63										32 - 133	-		

3 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Phone: 504.469.0333
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LELAP # 02006

Report: 2066695 **Batch: 82231**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20500675	OQS	125	111	93					
20501082	Sample	128	109	89					
20501083	Sample D2	123	122	87					
20501084	Sample	123	112	92					
20501086	Sample	123	112	91					
20501087	Sample	123	114	92					
20501270	BLANK	110	113	93					
20501271	LCS	107	106	92					
20501272	MS	110	111	94					
20501273	MSD	108	111	95					
20501604	BLANK S1	139 *	124	96					
20501605	LCS	128	113	97					
QC limits:		71-129	68-124	74-122					

Sur 1: 4-Bromofluorobenzene (S)
Sur 2: Dibromofluoromethane (S)
Sur 3: Toluene-d8 (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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LELAP # 02006

Report: 2066695 **Batch: 82240**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20500675	OQS	67	68	52	68	63	61		
20501082	Sample	62	64	54	65	57	74		
20501083	Sample	73	62	46	66	49	54		
20501084	Sample	63	66	55	66	63	57		
20501086	Sample	19 *	38	21	38	23	28		
20501087	Sample	55	64	54	65	62	69		
20501088	Sample	60	65	54	68	62	65		
20501089	Sample	65	62	61	68	70	74		
20501090	Sample	40	38	30	38	36	36		
20501091	Sample	62	107	47	55	34	127		
20501314	BLANK	66	68	58	69	69	70		
20501315	LCS	68	68	61	68	69	77		
20501316	MS	64	64	50	65	53	56		
20501317	MSD	69	68	58	68	65	61		
20502215	BLANK	44	47	41	46	46	53		
20502216	LCS	61	62	54	63	60	68		
QC limits:		25-133	36-108	10-109	21-120	15-113	17-130		

Sur 1: 2,4,6-Tribromophenol (S)
Sur 2: 2-Fluorobiphenyl (S)
Sur 3: 2-Fluorophenol (S)
Sur 4: Nitrobenzene-d5 (S)
Sur 5: Phenol-d5 (S)
Sur 6: Terphenyl-d14 (S)

* denotes surrogate recovery outside of QC limits.
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A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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LELAP # 02006

Report: 2066695 **Batch: 82366**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20501088	Sample S1	147 *	116	95					
20501089	Sample S1	153 *	119	90					
20501090	Sample S1	147 *	119	94					
20501091	Sample S1	150 *	115	93					
20501092	Sample S1	156 *	117	90					
20501093	Sample S1	148 *	118	92					
20501902	BLANK S1	146 *	125 *	93					
20501903	LCS	126	110	98					
20501906	MS	123	114	93					
20501907	MSD	122	116	95					
20502544	BLANK	110	119	97					
20502545	LCS	113	112	95					
QC limits:		71-129	68-124	74-122					

Sur 1: 4-Bromofluorobenzene (S)
Sur 2: Dibromofluoromethane (S)
Sur 3: Toluene-d8 (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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Phone: 504.469.0333
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LELAP # 02006

Lab ID: 20501270

Description: 8260 VOAs Full List Water BLK **Project No.:** 2066695

Method: EPA 8260 **Batch:** 82231 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 11-Feb-07 **Analyzed:** 02/11/07 14:03 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
67-64-1	Acetone	1	ND	A11	10.0
75-05-8	Acetonitrile	1	ND		100.
107-02-8	Acrolein	1	ND		20.0
107-13-1	Acrylonitrile	1	ND		20.0
107-05-1	Allyl chloride	1	ND		10.0
71-43-2	Benzene	1	ND		5.00
75-27-4	Bromodichloromethane	1	ND		5.00
75-25-2	Bromoform	1	ND		5.00
74-83-9	Bromomethane	1	ND		5.00
78-93-3	2-Butanone (MEK)	1	ND	A11	10.0
75-15-0	Carbon disulfide	1	ND		5.00
56-23-5	Carbon tetrachloride	1	ND		5.00
108-90-7	Chlorobenzene	1	ND		5.00
75-00-3	Chloroethane	1	ND		5.00
67-66-3	Chloroform	1	ND		5.00
74-87-3	Chloromethane	1	ND		5.00
126-99-8	Chloroprene	1	ND		5.00
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.00
124-48-1	Dibromochloromethane	1	ND		5.00
106-93-4	1,2-Dibromoethane (EDB)	1	ND		5.00
74-95-3	Dibromomethane	1	ND		5.00
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		5.00
75-71-8	Dichlorodifluoromethane	1	ND		5.00
75-34-3	1,1-Dichloroethane	1	ND		5.00
107-06-2	1,2-Dichloroethane	1	ND		5.00
75-35-4	1,1-Dichloroethene	1	ND		5.00
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00
78-87-5	1,2-Dichloropropane	1	ND		5.00
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		250.
100-41-4	Ethylbenzene	1	ND		5.00
97-63-2	Ethyl methacrylate	1	ND		10.0
591-78-6	2-Hexanone	1	ND		10.0
74-88-4	Iodomethane	1	ND		5.00
78-83-1	Isobutanol	1	ND		250.

3/6/2007 09:50:36

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Phone: 504.469.0333
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Lab ID: 20501270
Description: 8260 VOAs Full List Water BLK **Project No.:** 2066695
Method: EPA 8260 **Batch:** 82231 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 11-Feb-07 **Analyzed:** 02/11/07 14:03 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
126-98-7	Methacrylonitrile	1	ND		100.
75-09-2	Methylene chloride	1	3.55 J	A11	5.00
80-62-6	Methyl methacrylate	1	ND		10.0
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0
107-12-0	Propionitrile	1	ND		20.0
100-42-5	Styrene	1	ND		5.00
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.00
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00
127-18-4	Tetrachloroethene	1	ND		5.00
108-88-3	Toluene	1	ND		5.00
71-55-6	1,1,1-Trichloroethane	1	ND		5.00
79-00-5	1,1,2-Trichloroethane	1	ND		5.00
79-01-6	Trichloroethene	1	ND		5.00
75-69-4	Trichlorofluoromethane	1	ND		5.00
96-18-4	1,2,3-Trichloropropane	1	ND		5.00
95-63-6	1,2,4-Trimethylbenzene	1	ND		5.00
108-67-8	1,3,5-Trimethylbenzene	1	ND		5.00
108-05-4	Vinyl acetate	1	ND		10.0
75-01-4	Vinyl chloride	1	ND		5.00
	m&p-Xylene	1	ND		5.00
95-47-6	o-Xylene	1	ND		5.00

57 compound(s) reported

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LELAP # 02006

Lab ID: 20501314
Description: 8270 SVOAs Water **Project No.:** 2066695
Method: EPA 8270 **Batch:** 82240 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 13-Feb-07 **Analyzed:** 02/14/07 12:52 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
83-32-9	Acenaphthene	1	ND		10.0
208-96-8	Acenaphthylene	1	ND		10.0
98-86-2	Acetophenone	1	ND		10.0
120-12-7	Anthracene	1	ND		10.0
1912-24-9	Atrazine	1	ND		10.0
56-55-3	Benzo(a)anthracene	1	ND		10.0
205-99-2	Benzo(b)fluoranthene	1	ND		10.0
207-08-9	Benzo(k)fluoranthene	1	ND		10.0
191-24-2	Benzo(g,h,i)perylene	1	ND		10.0
50-32-8	Benzo(a)pyrene	1	ND		10.0
95-57-8	2-Chlorophenol	1	ND		10.0
218-01-9	Chrysene	1	ND		10.0
21725-46-2	Cyanazine	1	ND		10.0
53-70-3	Dibenz(a,h)anthracene	1	ND		10.0
132-64-9	Dibenzofuran	1	ND		10.0
120-83-2	2,4-Dichlorophenol	1	ND		10.0
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		10.0
206-44-0	Fluoranthene	1	ND		10.0
86-73-7	Fluorene	1	ND		10.0
193-39-5	Indeno(1,2,3-cd)pyrene	1	ND		10.0
91-57-6	2-Methylnaphthalene	1	ND		10.0
91-20-3	Naphthalene	1	ND		10.0
100-02-7	4-Nitrophenol	1	ND		10.0
87-86-5	Pentachlorophenol	1	ND		10.0
85-01-8	Phenanthrene	1	ND		10.0
129-00-0	Pyrene	1	ND		10.0
95-95-4	2,4,5-Trichlorophenol	1	ND		10.0
88-06-2	2,4,6-Trichlorophenol	1	ND		10.0

28 compound(s) reported

3/6/2007 09:50:37

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Lab ID: 20501604

Description: 8260 VOAs Full List Water BLK **Project No.:** 2066695

Method: EPA 8260 **Batch:** 82231 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 14-Feb-07 **Analyzed:** 02/14/07 18:02 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
67-64-1	Acetone	1	ND	A11	10.0
75-05-8	Acetonitrile	1	ND		100.
107-02-8	Acrolein	1	ND		20.0
107-13-1	Acrylonitrile	1	ND		20.0
107-05-1	Allyl chloride	1	ND		10.0
71-43-2	Benzene	1	ND		5.00
75-27-4	Bromodichloromethane	1	ND		5.00
75-25-2	Bromoform	1	ND		5.00
74-83-9	Bromomethane	1	ND		5.00
78-93-3	2-Butanone (MEK)	1	ND	A11	10.0
75-15-0	Carbon disulfide	1	ND		5.00
56-23-5	Carbon tetrachloride	1	ND		5.00
108-90-7	Chlorobenzene	1	ND		5.00
75-00-3	Chloroethane	1	ND		5.00
67-66-3	Chloroform	1	ND		5.00
74-87-3	Chloromethane	1	ND		5.00
126-99-8	Chloroprene	1	ND		5.00
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.00
124-48-1	Dibromochloromethane	1	ND		5.00
106-93-4	1,2-Dibromoethane (EDB)	1	ND		5.00
74-95-3	Dibromomethane	1	ND		5.00
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		5.00
75-71-8	Dichlorodifluoromethane	1	ND		5.00
75-34-3	1,1-Dichloroethane	1	ND		5.00
107-06-2	1,2-Dichloroethane	1	ND		5.00
75-35-4	1,1-Dichloroethene	1	ND		5.00
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00
78-87-5	1,2-Dichloropropane	1	ND		5.00
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		250.
100-41-4	Ethylbenzene	1	ND		5.00
97-63-2	Ethyl methacrylate	1	ND		10.0
591-78-6	2-Hexanone	1	ND		10.0
74-88-4	Iodomethane	1	ND		5.00
78-83-1	Isobutanol	1	ND		250.

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20501604

Description: 8260 VOAs Full List Water BLK **Project No.:** 2066695

Method: EPA 8260 **Batch:** 82231 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 14-Feb-07 **Analyzed:** 02/14/07 18:02 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
126-98-7	Methacrylonitrile	1	ND		100.
75-09-2	Methylene chloride	1	ND	A11	5.00
80-62-6	Methyl methacrylate	1	ND		10.0
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0
107-12-0	Propionitrile	1	ND		20.0
100-42-5	Styrene	1	ND		5.00
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.00
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00
127-18-4	Tetrachloroethene	1	ND		5.00
108-88-3	Toluene	1	ND		5.00
71-55-6	1,1,1-Trichloroethane	1	ND		5.00
79-00-5	1,1,2-Trichloroethane	1	ND		5.00
79-01-6	Trichloroethene	1	ND		5.00
75-69-4	Trichlorofluoromethane	1	ND		5.00
96-18-4	1,2,3-Trichloropropane	1	ND		5.00
95-63-6	1,2,4-Trimethylbenzene	1	ND		5.00
108-67-8	1,3,5-Trimethylbenzene	1	ND		5.00
108-05-4	Vinyl acetate	1	ND		10.0
75-01-4	Vinyl chloride	1	ND		5.00
	m&p-Xylene	1	ND		5.00
95-47-6	o-Xylene	1	ND		5.00

57 compound(s) reported

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Phone: 504.469.0333
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LELAP # 02006

Lab ID: 20501902

Description: 8260 VOAs Full List Water BLK **Project No.:** 2066695

Method: EPA 8260 **Batch:** 82366 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 15-Feb-07 **Analyzed:** 02/15/07 18:05 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
67-64-1	Acetone	1	ND	A11	10.0
75-05-8	Acetonitrile	1	ND		100.
107-02-8	Acrolein	1	ND		20.0
107-13-1	Acrylonitrile	1	ND		20.0
107-05-1	Allyl chloride	1	ND		10.0
71-43-2	Benzene	1	ND		5.00
74-97-5	Bromochloromethane	1	ND		5.00
75-27-4	Bromodichloromethane	1	ND		5.00
75-25-2	Bromoform	1	ND		5.00
74-83-9	Bromomethane	1	ND		5.00
78-93-3	2-Butanone (MEK)	1	ND	A11	10.0
104-51-8	n-Butylbenzene	1	ND		5.00
135-98-8	sec-Butylbenzene	1	ND		5.00
98-06-6	tert-Butylbenzene	1	ND		5.00
75-15-0	Carbon disulfide	1	ND		5.00
56-23-5	Carbon tetrachloride	1	ND		5.00
108-90-7	Chlorobenzene	1	ND		5.00
75-00-3	Chloroethane	1	ND		5.00
110-75-8	2-Chloroethylvinyl ether	1	ND		20.0
67-66-3	Chloroform	1	ND		5.00
74-87-3	Chloromethane	1	ND		5.00
126-99-8	Chloroprene	1	ND		5.00
95-49-8	2-Chlorotoluene	1	ND		5.00
106-43-4	4-Chlorotoluene	1	ND		5.00
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.00
124-48-1	Dibromochloromethane	1	ND		5.00
106-93-4	1,2-Dibromoethane (EDB)	1	ND		5.00
74-95-3	Dibromomethane	1	ND		5.00
95-50-1	1,2-Dichlorobenzene	1	ND		5.00
541-73-1	1,3-Dichlorobenzene	1	ND		5.00
106-46-7	1,4-Dichlorobenzene	1	ND		5.00
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		5.00
75-71-8	Dichlorodifluoromethane	1	ND		5.00
75-34-3	1,1-Dichloroethane	1	ND		5.00
107-06-2	1,2-Dichloroethane	1	ND		5.00
75-35-4	1,1-Dichloroethene	1	ND		5.00

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Phone: 504.469.0333
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LELAP # 02006

Lab ID: 20501902

Description: 8260 VOAs Full List Water BLK **Project No.:** 2066695

Method: EPA 8260 **Batch:** 82366 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 15-Feb-07 **Analyzed:** 02/15/07 18:05 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
156-59-2	cis-1,2-Dichloroethene	1	ND		5.00
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00
78-87-5	1,2-Dichloropropane	1	ND		5.00
142-28-9	1,3-Dichloropropane	1	ND		5.00
594-20-7	2,2-Dichloropropane	1	ND		5.00
563-58-6	1,1-Dichloropropene	1	ND		5.00
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		250.
100-41-4	Ethylbenzene	1	ND		5.00
97-63-2	Ethyl methacrylate	1	ND		10.0
591-78-6	2-Hexanone	1	ND		10.0
74-88-4	Iodomethane	1	ND		5.00
78-83-1	Isobutanol	1	ND		250.
98-82-8	Isopropylbenzene (Cumene)	1	ND		5.00
99-87-6	p-Isopropyltoluene	1	ND		5.00
126-98-7	Methacrylonitrile	1	ND		100.
79-20-9	Methyl acetate	1	ND		10.0
75-09-2	Methylene chloride	1	ND	A11	5.00
80-62-6	Methyl methacrylate	1	ND		10.0
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0
75-65-0	2-Methyl-2-propanol	1	ND		200.
1634-04-4	Methyl-tert-butyl ether	1	ND		5.00
91-20-3	Naphthalene	1	ND		5.00
107-12-0	Propionitrile	1	ND		20.0
103-65-1	n-Propylbenzene	1	ND		5.00
100-42-5	Styrene	1	ND		5.00
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.00
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00
127-18-4	Tetrachloroethene	1	ND		5.00
108-88-3	Toluene	1	ND		5.00
87-61-6	1,2,3-Trichlorobenzene	1	ND		5.00
120-82-1	1,2,4-Trichlorobenzene	1	ND		5.00
71-55-6	1,1,1-Trichloroethane	1	ND		5.00
79-00-5	1,1,2-Trichloroethane	1	ND		5.00
79-01-6	Trichloroethene	1	ND		5.00

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Lab ID: 20501902

Description: 8260 VOAs Full List Water BLK **Project No.:** 2066695

Method: EPA 8260 **Batch:** 82366 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 15-Feb-07 **Analyzed:** 02/15/07 18:05 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
75-69-4	Trichlorofluoromethane	1	ND		5.00
96-18-4	1,2,3-Trichloropropane	1	ND		5.00
526-73-8	1,2,3-Trimethylbenzene	1	ND		5.00
95-63-6	1,2,4-Trimethylbenzene	1	ND		5.00
108-67-8	1,3,5-Trimethylbenzene	1	ND		5.00
108-05-4	Vinyl acetate	1	ND		10.0
75-01-4	Vinyl chloride	1	ND		5.00
	m&p-Xylene	1	ND		5.00
95-47-6	o-Xylene	1	ND		5.00

81 compound(s) reported

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Lab ID: 20502215
Description: 8270 SVOAs Water **Project No.:** 2066695
Method: EPA 8270 **Batch:** 82240 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 15-Feb-07 **Analyzed:** 02/19/07 11:34 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
83-32-9	Acenaphthene	1	ND		10.0
208-96-8	Acenaphthylene	1	ND		10.0
98-86-2	Acetophenone	1	ND		10.0
120-12-7	Anthracene	1	ND		10.0
1912-24-9	Atrazine	1	ND		10.0
56-55-3	Benzo(a)anthracene	1	ND		10.0
205-99-2	Benzo(b)fluoranthene	1	ND		10.0
207-08-9	Benzo(k)fluoranthene	1	ND		10.0
191-24-2	Benzo(g,h,i)perylene	1	ND		10.0
50-32-8	Benzo(a)pyrene	1	ND		10.0
95-57-8	2-Chlorophenol	1	ND		10.0
218-01-9	Chrysene	1	ND		10.0
21725-46-2	Cyanazine	1	ND		10.0
53-70-3	Dibenz(a,h)anthracene	1	ND		10.0
132-64-9	Dibenzofuran	1	ND		10.0
120-83-2	2,4-Dichlorophenol	1	ND		10.0
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		10.0
206-44-0	Fluoranthene	1	ND		10.0
86-73-7	Fluorene	1	ND		10.0
193-39-5	Indeno(1,2,3-cd)pyrene	1	ND		10.0
91-57-6	2-Methylnaphthalene	1	ND		10.0
91-20-3	Naphthalene	1	ND		10.0
100-02-7	4-Nitrophenol	1	ND		10.0
87-86-5	Pentachlorophenol	1	ND		10.0
85-01-8	Phenanthrene	1	ND		10.0
129-00-0	Pyrene	1	ND		10.0
95-95-4	2,4,5-Trichlorophenol	1	ND		10.0
88-06-2	2,4,6-Trichlorophenol	1	ND		10.0

28 compound(s) reported

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Phone: 504.469.0333
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LELAP # 02006

Lab ID: 20502544

Description: 8260 VOAs Full List Water BLK **Project No.:** 2066695

Method: EPA 8260 **Batch:** 82366 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 16-Feb-07 **Analyzed:** 02/16/07 12:11 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
67-64-1	Acetone	1	ND	A11	10.0
75-05-8	Acetonitrile	1	ND		100.
107-02-8	Acrolein	1	ND		20.0
107-13-1	Acrylonitrile	1	ND		20.0
107-05-1	Allyl chloride	1	ND		10.0
71-43-2	Benzene	1	ND		5.00
74-97-5	Bromochloromethane	1	ND		5.00
75-27-4	Bromodichloromethane	1	ND		5.00
75-25-2	Bromoform	1	ND		5.00
74-83-9	Bromomethane	1	ND		5.00
78-93-3	2-Butanone (MEK)	1	ND	A11	10.0
104-51-8	n-Butylbenzene	1	ND		5.00
135-98-8	sec-Butylbenzene	1	ND		5.00
98-06-6	tert-Butylbenzene	1	ND		5.00
75-15-0	Carbon disulfide	1	ND		5.00
56-23-5	Carbon tetrachloride	1	ND		5.00
108-90-7	Chlorobenzene	1	ND		5.00
75-00-3	Chloroethane	1	ND		5.00
110-75-8	2-Chloroethylvinyl ether	1	ND		20.0
67-66-3	Chloroform	1	ND		5.00
74-87-3	Chloromethane	1	ND		5.00
126-99-8	Chloroprene	1	ND		5.00
95-49-8	2-Chlorotoluene	1	ND		5.00
106-43-4	4-Chlorotoluene	1	ND		5.00
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.00
124-48-1	Dibromochloromethane	1	ND		5.00
106-93-4	1,2-Dibromoethane (EDB)	1	ND		5.00
74-95-3	Dibromomethane	1	ND		5.00
95-50-1	1,2-Dichlorobenzene	1	ND		5.00
541-73-1	1,3-Dichlorobenzene	1	ND		5.00
106-46-7	1,4-Dichlorobenzene	1	ND		5.00
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		5.00
75-71-8	Dichlorodifluoromethane	1	ND		5.00
75-34-3	1,1-Dichloroethane	1	ND		5.00
107-06-2	1,2-Dichloroethane	1	ND		5.00
75-35-4	1,1-Dichloroethene	1	ND		5.00

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20502544

Description: 8260 VOAs Full List Water BLK **Project No.:** 2066695

Method: EPA 8260 **Batch:** 82366 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 16-Feb-07 **Analyzed:** 02/16/07 12:11 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
156-59-2	cis-1,2-Dichloroethene	1	ND		5.00
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00
78-87-5	1,2-Dichloropropane	1	ND		5.00
142-28-9	1,3-Dichloropropane	1	ND		5.00
594-20-7	2,2-Dichloropropane	1	ND		5.00
563-58-6	1,1-Dichloropropene	1	ND		5.00
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		250.
100-41-4	Ethylbenzene	1	ND		5.00
97-63-2	Ethyl methacrylate	1	ND		10.0
591-78-6	2-Hexanone	1	ND		10.0
74-88-4	Iodomethane	1	ND		5.00
78-83-1	Isobutanol	1	ND		250.
98-82-8	Isopropylbenzene (Cumene)	1	ND		5.00
99-87-6	p-Isopropyltoluene	1	ND		5.00
126-98-7	Methacrylonitrile	1	ND		100.
79-20-9	Methyl acetate	1	ND		10.0
75-09-2	Methylene chloride	1	ND	A11	5.00
80-62-6	Methyl methacrylate	1	ND		10.0
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0
75-65-0	2-Methyl-2-propanol	1	ND		200.
1634-04-4	Methyl-tert-butyl ether	1	ND		5.00
91-20-3	Naphthalene	1	ND		5.00
107-12-0	Propionitrile	1	ND		20.0
103-65-1	n-Propylbenzene	1	ND		5.00
100-42-5	Styrene	1	ND		5.00
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.00
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00
127-18-4	Tetrachloroethene	1	ND		5.00
108-88-3	Toluene	1	ND		5.00
87-61-6	1,2,3-Trichlorobenzene	1	ND		5.00
120-82-1	1,2,4-Trichlorobenzene	1	ND		5.00
71-55-6	1,1,1-Trichloroethane	1	ND		5.00
79-00-5	1,1,2-Trichloroethane	1	ND		5.00
79-01-6	Trichloroethene	1	ND		5.00

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/6/2007 09:50:37

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
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Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
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Pace Analytical®
New Orleans Laboratory

Report of Method Blank

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20502544

Description: 8260 VOAs Full List Water BLK **Project No.:** 2066695

Method: EPA 8260 **Batch:** 82366 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 16-Feb-07 **Analyzed:** 02/16/07 12:11 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
75-69-4	Trichlorofluoromethane	1	ND		5.00
96-18-4	1,2,3-Trichloropropane	1	ND		5.00
526-73-8	1,2,3-Trimethylbenzene	1	ND		5.00
95-63-6	1,2,4-Trimethylbenzene	1	ND		5.00
108-67-8	1,3,5-Trimethylbenzene	1	ND		5.00
108-05-4	Vinyl acetate	1	ND		10.0
75-01-4	Vinyl chloride	1	ND		5.00
	m&p-Xylene	1	ND		5.00
95-47-6	o-Xylene	1	ND		5.00

81 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/6/2007 09:50:38

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Report of Quality Control

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Method: EPA 8151 **Project:** 2066695 **LCS:** 20501319 2/23/2007 4:54:00 AM

Batch: 82241 **MS:** 20501320 2/23/2007 7:38:00 AM

Units: ug/L **Original for MS:** 20500675 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Dinoseb	5	4.627		93			5	32.20	30.65	28.52	0 *	0 *	7	10 - 146	10 - 151	20	Q1

1 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

3/6/2007 09:50:40

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Report of Batch Surrogate Recovery

Pace Analytical Services, Inc.
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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Report: 2066695 **Batch: 82241**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20500675	OQS D1,G	158	185 D						
20501082	Sample	30	34						
20501083	Sample G1	0 *	15						
20501084	Sample	50	53						
20501086	Sample	41	46						
20501087	Sample	162	179						
20501088	Sample	134	142						
20501089	Sample	163	148						
20501090	Sample D1	0 D	0 D						
20501091	Sample D1	0 D	0 D						
20501318	BLANK	116	126						
20501319	LCS	117	127						
20501320	MS	122	127						
20501321	MSD	109	112						
QC limits:		10-181	10-181						

Sur 1: 2,4-DCPA (Conf)(S)
Sur 2: 2,4-DCPA (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

3/6/2007 09:50:43

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Report of Batch Surrogate Recovery

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Report: 2066695 **Batch: 82271**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20501082	Sample	68	68	57	58				
20501083	Sample G1	65	89	67	232 *				
20501084	Sample	48	32	43	40				
20501086	Sample	52	39	61	65				
20501087	Sample	43	40	38	40				
20501088	Sample	70	68	56	62				
20501089	Sample	65	64	53	54				
20501090	Sample	61	60	92	50				
20501091	Sample	14	15	25	25				
20501438	BLANK	64	65	58	57				
20501439	LCS	62	62	59	60				
20501440	MS	70	70	67	76				
20501441	MSD	82	81	64	66				
QC limits:		10-157	10-157	18-171	18-171				

Sur 1: Decachlorobiphenyl (Conf)(S)
Sur 2: Decachlorobiphenyl (S)
Sur 3: Tetrachloro-m-xylene (Conf)(S)
Sur 4: Tetrachloro-m-xylene (S)

*** denotes surrogate recovery outside of QC limits.**
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

3/6/2007 09:50:43

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Report of Method Blank

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20501318
Description: 8151 Herbs Water **Project No.:** 2066695
Method: EPA 8151 **Batch:** 82241 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 14-Feb-07 **Analyzed:** 02/23/07 04:26 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
88-85-7	Dinoseb	1	ND		2.00

1 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/6/2007 09:50:46

New Orleans Laboratory Certifications
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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20501438
Description: 8081 Pests Water **Project No.:** 2066695
Method: EPA 8081 **Batch:** 82271 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 13-Feb-07 **Analyzed:** 02/16/07 15:20 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
8001-35-2	Toxaphene	1	ND		2.00

1 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/6/2007 09:50:46

New Orleans Laboratory Certifications
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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2066695

Parameter	Batch	Blank	ARL	Units	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	RPD Max	Qu
Arsenic	82214	ND	10.0	ug/L	1000	103			1000	99	101	1		79 - 122	68 - 130	20	
Arsenic, Disso	82352	ND	10.0	ug/L	1000	97			1000	88	86	1		72 - 116	60 - 123	20	

3/6/2007 09:50:49

ARL denotes Adjusted Reporting Limit , corrected for sample size, dilution and moisture content as applicable.
* denotes recovery outside of QC limits.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Report Qualifiers

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2066695

ALL Qualifiers

Qualifier	Qualifier Description
N	See narrative for a detailed explanation.

Analyte Qualifiers

Qualifier	Qualifier Description
A11	This analyte is a common solvent. Its presence in field samples may be an artifact of sample collection, transport, laboratory storage or analysis.
G1	Interferences are present which caused poor surrogate recovery.
J	This estimated value for the analyte is below the adjusted reporting limit but above the instrument reporting limit.

General Qualifiers

Qualifier	Qualifier Description
D1	The analysis was performed at a dilution due to the high analyte concentration.
D2	The analysis was performed at a dilution due to the presence of matrix interferences.

QC Qualifiers

Qualifier	Qualifier Description
Q1	The matrix spike recoveries are poor. Acceptable method performance for this analyte has been demonstrated by the laboratory control sample recovery.
Q10	The spike recovery was above the laboratory QC limits, however, the data are reported without qualification since the target analyte was not detected in the corresponding samples.
S1	The surrogate recovery was above the QC limit. The data are reported without qualification since the associated target analytes were not detected in the sample.

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ARCADIS

Laboratory Task Order No./P.O. No. _____ **CHAIN-OF-CUSTODY RECORD** Page 1 of _____

Project Number/Name LA002656.0001.00013 / Miss Bluffs

Project Location Vicksburg, MS

Laboratory Pace

Project Manager Craig Dragoun

Sampler(s)/Affiliation G. Cook, K. Montgomery

2066695

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE: VOC's (8260) HCl 3x	Semivolatiles/HCl/4oz	SVOC's (8270)	1-liter Amber/4oz	Pesticides (8081)	1-liter Amber/2x2oz	Herbicides (8151)	T. Metals	250ml plastic/HNO3/40z	D. Metals	250ml plastic/4oz	Remarks	Total
PZ-22A(020807)	L	2/8/07 0808		3	3	2	2				1		1		2050/1082	12
PZ-22B(020807)	L	0855		3	3	2	2				1		1		1083	12
PZ-26A(020807)	L	1010		3	3	2	2				1		1		1084	12
PZ-26B(020807)	L	1100		3	3	2	2				1		1		1086	12
PZ-23B(020807)	L	1200		3	3	2	2				1		1		1087	12
MW-11(020807)	L	1400		3	3	2	2				1		1		1088	12
MW-10(020807)	L	1515		3	3	2	2				1		1		1089	12
MW-10C(020807)	L	1625		3	3	2	2				1		1		1090	12
TB05(020807)	L	2/8/07		2											1092	2
RB-02(020907)	L	2/9/07 0930		3	3	2	2				1				1091	11
FB-02(020907)	L	1000		3											1093	3

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers 112

Relinquished by: George Cook	Organization: Arcadis	Date 02/09/07	Time 1510	Seal Intact?		
Received by:	Organization: Pace	Date 2/9/07	Time 1510	Yes	No	N/A
Relinquished by: RB/Pace	Organization: Pace	Date 02/09/07	Time 1615	Seal Intact?		
Received by:	Organization: Pace	Date 2/9/07	Time 1615	Yes	No	N/A

Special Instructions/Remarks:

Cooler Range 2.6-3.5°

* Lab to filter Dissolved Metals in Lab

Delivery Method: ☐ In Person ☐ Common Carrier _____ SPECIFY ☒ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

ARCADIS

Laboratory Task Order No./P.O. No. ______

CHAIN-OF-CUSTODY RECORD

Page 1 of ___

Project Number/Name: LA002656.0001.00013 / Miss Bluffs

Project Location: Vicksburg, MS

Laboratory: Pace

Project Manager: Craig Derouen

Sampler(s)/Affiliation: G. Cook, K. Montgomery

2066695

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	VOCs (8260) / 40ml vials / HCl / 4°C	SVOCs (8270) / 1-liter Amber / 4°C	O. Pesticides (8081) / 1-liter Amber / 4°C	O. Herbicides (8151)	T. Metals / 250ml plastic / HNO3 / 4°C	D. Metals / 250ml plastic / 4°C	Remarks	Total
PZ-22A (020807)	L	2/8/07 0808		3	3	2	2	1	1	20501082	12
PZ-22B (020807)	L	0855		3	3	2	2	1	1	1083	12
PZ-26A (020807)	L	1010		3	3	2	2	1	1	1084	12
PZ-26B (020807)	L	1100		3	3	2	2	1	1	1086	12
PZ-23B (020807)	L	1200		3	3	2	2	1	1	1087	12
MW-11 (020807)	L	1400		3	3	2	2	1	1	1088	12
MW-10 (020807)	L	1515		3	3	2	2	1	1	1089	12
MW-10C (020807)	L	1625		3	3	2	2	1	1	1090	12
TB05 (020807)	L	2/8/09		2						1092	2
RB-02 (020907)	L	2/9/07 0930		3	3	2	2	1		1091	11
FB-02 (020907)	L	1000		3						1093	3

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers: 112

Relinquished by: George Cook	Organization: Arcadis	Date 02/09/07	Time 1510	Seal Intact?
Received by: [illegible]	Organization: Pace	Date 2/9/07	Time 1510	Yes No N/A
Relinquished by: RB\Pace	Organization: Pace	Date 02/09/07	Time 1615	Seal Intact?
Received by: [illegible]	Organization: [illegible]	Date 2/9/07	Time 1615	Yes No N/A

Special Instructions/Remarks:

Cooler Range 2.6 – 3.5°

* Lab to filter Dissolved Metals in Lab

Delivery Method: ☐ In Person ☐ Common Carrier ______ (SPECIFY) ☒ Lab Courier ☐ Other ______ (SPECIFY)

AG 05-12/01

ANALYTICAL DATA VALIDATION CHECKLIST **Former Vicksburg Chemical Company**

SDG NUMBER(s)	**2066695**	
Sample Date(s):	02/08/07	
Sample Team:	ARCADIS	
Sample Matrix:	Water	
Analyzing Laboratories:	Pace Analytical Services (New Orleans, Asheville, and Charlotte)	
Analyses: Project-Specific Compound Lists	**USEPA Methods:** 8260 Volatile Organic Compounds (VOCs) 8270 Semivolatile Organic Compounds (SVOCs)	8151 (Herbicides) 8081 (Pesticides) 6010 (Metals)
Report Content Level:	Contract Laboratory Program (CLP) type including raw data	

ARCADIS U.S., Inc.
3850 N. Causeway Blvd.
Suite 1600
Metairie, LA 70002
Tel. 504 832 4174
Fax 504 832 2145

ENVIRONMENT

Project Number:
LA002656.0001.00012

Review of field data, field notes, and sampling logs was conducted separately. Analytical data were evaluated in accordance with applicable U.S. Environmental Protection Agency (USEPA) method-specific criteria and/or laboratory Standard Operating Procedures (SOPs), *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (July 2002), *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review* (October 1999), *Quality Assurance Project Plan* (September 2006), the analytical laboratory Quality Assurance (QA) control limits, *Site Baseline Sampling Work Plan* (January 2007), and professional judgment.

This data verification was performed at a **Level 1** and included review of data package completeness, method blanks, holding time compliance, field duplicate precision, and field Quality Control (QC) sample evaluation. Only QA/QC results and analytical data associated with analytes/compounds of interest were reviewed for this validation.

The data package review included analytical results and associated QC data for all samples in the listed Sample Delivery Group(s) unless otherwise noted.

The following samples were included in this Validation:

SDG	Sample ID	Sample Type	Sample Collection Date	Parent Sample
2066695	PZ-22A (020807)	Water	02/08/07	
2066695	PZ-22B (020807)	Water	02/08/07	
2066695	PZ-26A (020807)	Water	02/08/07	
2066695	PZ-26B (020807)	Water	02/08/07	
2066695	PZ-23B (020807)	Water	02/08/07	
2066695	MW-11 (020807)	Water	02/08/07	
2066695	MW-10 (020807)	Water	02/08/07	
2066695	MW-10C (020807)	Water	02/08/07	
2066695	RB-02 (020807)	Water	02/08/07	
2066695	TB-05 (020807)	Water	02/08/07	
2066695	FB-02 (020807)	Water	02/08/07	

ANALYTICAL DATA PACKAGE DOCUMENTATION
GENERAL INFORMATION

Item Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt information		X		X	
2. Sample results		X		X	
3. Parameters analyzed		X		X	
4. Methods of analysis		X		X	
5. Reporting limits of analysis		X		X	
6. Master tracking list		X		X	
7. Sample collection date		X		X	
8. Laboratory sample received date		X		X	
9. Sample preservation		X		X	
10. Sample preparation/extraction date		X		X	
11. Sample analysis date		X		X	
12. Copy of Chain-of-Custody form signed by laboratory sample custodian		X		X	
13. Narrative summary of QA or sample problems provided		X		X	

QA - Quality Assurance

Comments:

All samples referenced in this report were analyzed by various divisions of Pace Analytical Services.

Performance was acceptable, with the following exceptions and/or notes:

Note: The laboratory had not completed Method Detection Limit (MDL) studies for Atrazene, Cyanazine, or Toxaphene.

5. The laboratory reported values between the MDL and the Reporting Limit (RL) as estimated except for Toxaphene, Atrazene, and Cyanazine. If the compound was not detected, the analytical report lists the result as non-detect at the quantitative reporting limit.

VOLATILE ORGANIC COMPOUNDS

Item Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
1. Holding Times		X		X	
2. Reporting Limits		X		X	
3. Blanks					
A. Method Blanks		X	X		
B. Equipment Blanks/Rinsate Blanks		X		X	
C. Field Blanks		X		X	
D. Trip Blanks		X	X		
4. Field Duplicate Precision (RPD)		X		X	
5. Narrative Notations of Potential Impact	X				X

RPD - relative percent difference

Comments:

This section presents the review of USEPA Method 8260 Volatile Organic Compounds (VOCs). Performance was acceptable, with the following exceptions and/or notes:

Note: The Appendix IX compound list was reported.

2. PZ-22 (020807) was analyzed at a 20x and 200x dilution due to elevated concentrations of target analytes. There were elevate reporting limits for non-detect results.

3. Methylene Chloride was detected in TB-05(020807) and Method Blank 82231. The associated field samples are qualified as non-detect (UB) for Methylene Chloride if the sample concentration is less than 10 times the blank value.

SEMIVOLATILE ORGANIC COMPOUNDS

Item Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
1. Holding Times		X		X	
2. Reporting Limits		X		X	
3. Blanks					
A. Method Blanks		X		X	
B. Equipment Blanks/Rinsate Blanks		X	X		
C. Field Blanks	X				X
4. Field Duplicate Precision (RPD)	X				X
5. Narrative Notations of Potential Impact		X		X	

RPD - relative percent difference

Comments:

The following section was reviewed and completed for USEPA Method 8270 Semivolatile Organic Compounds (SVOCs). Performance was acceptable, with the following exceptions and/or notes:

Notes: A project-specific list of compounds was reported.

3. Bis(2-ethyl hexyl) phthalate was detected in RB-02 (020807). The associated field samples were non-detect for Bis(2-ethyl hexyl) phthalate. No qualification is necessary.

PESTICIDES AND HERBICIDES

Item Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
1. Holding Times		X		X	
2. Reporting Limits		X		X	
3. Blanks					
A. Method Blanks		X		X	
B. Equipment Blanks/Rinsate Blank		X		X	
C. Field Blanks	X				X
4. Field Duplicate Precision (RPD)	X				X
5. Narrative Notations of Potential Impact		X		X	

RPD - relative percent difference

Comments:

The following section was reviewed and completed for USEPA Method 8151 (Herbicides) Dinoseb only and Method 8081 (Pesticides) Toxaphene only. Performance was acceptable, with the following exceptions and/or notes:

2. MW-10C (020807) was analyzed at a 1000x dilution for Dinoseb due to an elevated concentration.

   RB-02 (020807) was analyzed at a 10x dilution for Dinoseb due to matrix interference. The sample was non-detect for Dinoseb. The sample is qualified as estimated for Dinoseb because there was an elevated reporting limit and the sample is a rinsate blank.

METALS

Item Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
1. Holding Times		X		X	
2. Reporting Limits		X		X	
3. Blanks					
A. Method Blanks		X		X	
B. Equipment Blanks/Rinsate Blanks		X		X	
C. Field Blanks	X				X
4. Field Duplicate Precision (RPD)	X				X
5. Narrative Notations of Potential Impact		X		X	

RPD - relative percent difference

Comments:

The following section was reviewed and completed for USEPA Method 6010 (Total and Dissolved Arsenic). Performance was acceptable, with no exceptions and/or notes.

VALIDATION QUALIFICATION SUMMARY

Data values presented in the following table were qualified due to QC deficiencies. The table indicates compounds/analytes qualified based on validation reviews conducted in accordance with the level of review referenced on page 1 of this checklist. Refer to the associated method section of the validation checklist for a detailed explanation of qualification. All other data are considered quantitative.

The following data qualifiers with applicable definitions were applied in this data validation:

UB - compound/analyte detected in blank or associated blank.

J - the analyte was positively identified, but the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - the analyte was not detected above the reporting limit; however, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

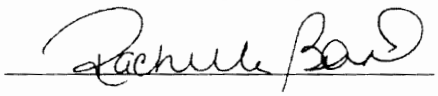
R - the sample result is rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria, and the presence or absence of the analyte cannot be verified.

All other data satisfy validation criteria and are considered to be quantitative.

Sample ID	Parameter	Result	Units	Qualifier	Reason
PZ-22B (020807)	Methylene Chloride	39.6	µg/L	UB	Blank Contamination
RB02 (020807)	Dinoseb	<20.0	µg/L	UJ	Matrix Interference

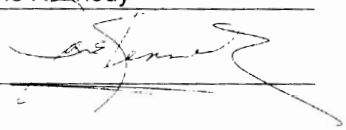
µg/L Micrograms per Liter.

VALIDATION PERFORMED BY: Rachelle Borne

SIGNATURE: 

DATE: June 20, 2007

PEER REVIEW: Jane Kennedy

SIGNATURE: 

DATE: June 20, 2007

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Phone: 504.469.0333
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LELAP # 02006

February 28, 2007

RECEIVED
MAR 0 7 2007
ARCADIS Geraghty & Miller

Craig Derouen
Arcadis Geraghty & Miller
10352 Plaza Americana Drive
Baton Rouge, LA 70816

RE: Project: 2066779
RE: Project ID: MS BLUFFS/LA002656.1.13

Dear Craig Derouen:

Enclosed are the analytical results for sample(s) received by the laboratory on February 13, 2007. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Cindy Olavesen

Cindy Olavesen

ACCREDITED IN ACCORDANCE WITH nelac

REPORT OF LABORATORY ANALYSIS

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Report of Laboratory Analysis

Project Number: 2066779

ACCREDITED IN ACCORDANCE WITH nelac

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Sample Cross Reference Report

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.1.13

Project No.: 2066779

Sample ID	Lab ID	Matrix	Collection Date/Time		Received Date/Time	
BLACK TANK (021207)	20501679	Water	02/12/2007	14:45	02/13/2007	14:40
WHITE TANK (021207)	20501680	Water	02/12/2007	15:00	02/13/2007	14:40

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Project Narrative

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Project: **2066779**

Sample Receipt Condition:

All samples were received in accordance with EPA protocol.

Holding Times:

All holding times were met.

Blanks:

All blank results were below reporting limits.

Laboratory Control Samples:

LCS recoveries outside of QC limits are qualified in the Report of Quality Control section.

Matrix Spikes and Duplicates:

MS or MSD recoveries outside of QC limits are qualified in the Report of Quality Control section.

Surrogates:

Surrogate recoveries outside of QC limits are qualified in the surrogate results section.

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Project: 2066779

Analytical Method	Batch	Sample used for QC
EPA 8151	82425	Project sample BLACK TANK (021207)
EPA 8081	82704	Project sample BLACK TANK (021207)
EPA 6010	82487	Batch sample from another client
EPA 7470	82488	Batch sample from another client
EPA 8270	82622	Batch sample from another client
EPA 8260	82542	Batch sample from another client
EPA 9040	82327	Batch sample from another client
SW-846 7.3.4.2	82394	Batch sample from another client
SW-846 7.3.3.2	82395	Batch sample from another client

2/28/2007 17:55:27

For the sample used as the original for the DUP or MS/MSD for the batch:

Project sample means a sample from this project was used.
Client sample means a sample from the same client but in a different project was used.
Batch sample means a sample from the a different client was used.

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: BLACK TANK (021207) **Site:** None

Project: MS BLUFFS/LA002656.1.13 **Project No.:** 2066779 **Sample Qu:**

Lab ID: 20501679 (TCLP) **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 82542

Method: 8260 VOAs TCLP **Units:** mg/L **Target List:** 8260_LL20

Collected: 02/12/07 **Received:** 02/13/07

Prep Factor: 1 **Prepared:** 02/19/07 **Analyzed:** 02/19/07 17:09 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	ND		0.100	0.500
78-93-3	2-Butanone (MEK)	1	ND	A11	0.200	200.
56-23-5	Carbon tetrachloride	1	ND		0.100	0.500
108-90-7	Chlorobenzene	1	ND		0.100	100.
67-66-3	Chloroform	1	ND		0.100	6.00
107-06-2	1,2-Dichloroethane	1	ND		0.100	0.500
75-35-4	1,1-Dichloroethene	1	ND		0.100	0.700
127-18-4	Tetrachloroethene	1	ND		0.100	0.700
79-01-6	Trichloroethene	1	ND		0.100	0.500
75-01-4	Vinyl chloride	1	ND		0.100	0.200

10 compound(s) reported

2/28/2007 17:55:29

ND denotes Not Detected at or above the adjusted reporting limit.
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: BLACK TANK (021207) **Site:** None

Project: MS BLUFFS/LA002656.1.13 **Project No.:** 2066779 **Sample Qu:**

Lab ID: 20501679 (TCLP) **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 82622

Method: 8270 SVOAs TCLP **Units:** mg/L **Target List:** 8270_LL20

Collected: 02/12/07 **Received:** 02/13/07

Prep Factor: 1 **Prepared:** 02/23/07 **Analyzed:** 02/27/07 13:44 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
106-46-7	1,4-Dichlorobenzene	1	ND		0.100	7.50
121-14-2	2,4-Dinitrotoluene	1	ND		0.100	0.130
87-68-3	Hexachloro-1,3-butadiene	1	ND		0.100	0.500
118-74-1	Hexachlorobenzene	1	ND		0.100	0.130
67-72-1	Hexachloroethane	1	ND		0.100	3.00
95-48-7	2-Methylphenol (o-Cresol)	1	ND		0.100	200.
108-39-4	3-Methylphenol (m-Cresol)	1	ND	A7	0.100	200.
106-44-5	4-Methylphenol (p-Cresol)	1	ND	A7	0.100	200.
98-95-3	Nitrobenzene	1	ND		0.100	2.00
87-86-5	Pentachlorophenol	1	ND		0.250	100.
110-86-1	Pyridine	1	ND		0.100	5.00
95-95-4	2,4,5-Trichlorophenol	1	ND		0.250	400.
88-06-2	2,4,6-Trichlorophenol	1	ND		0.100	2.00

13 compound(s) reported

2/28/2007 17:55:29

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: WHITE TANK (021207) **Site:** None

Project: MS BLUFFS/LA002656.1.13 **Project No.:** 2066779 **Sample Qu:**

Lab ID: 20501680 (TCLP) **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 82542

Method: 8260 VOAs TCLP **Units:** mg/L **Target List:** 8260_LL20

Collected: 02/12/07 **Received:** 02/13/07

Prep Factor: 1 **Prepared:** 02/19/07 **Analyzed:** 02/19/07 17:32 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	ND		0.100	0.500
78-93-3	2-Butanone (MEK)	1	ND	A11	0.200	200.
56-23-5	Carbon tetrachloride	1	0.186		0.100	0.500
108-90-7	Chlorobenzene	1	ND		0.100	100.
67-66-3	Chloroform	1	0.163		0.100	6.00
107-06-2	1,2-Dichloroethane	1	ND		0.100	0.500
75-35-4	1,1-Dichloroethene	1	ND		0.100	0.700
127-18-4	Tetrachloroethene	1	ND		0.100	0.700
79-01-6	Trichloroethene	1	ND		0.100	0.500
75-01-4	Vinyl chloride	1	ND		0.100	0.200

10 compound(s) reported

2/28/2007 17:55:30

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: WHITE TANK (021207) **Site:** None

Project: MS BLUFFS/LA002656.1.13 **Project No.:** 2066779 **Sample Qu:**

Lab ID: 20501680 (TCLP) **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 82622

Method: 8270 SVOAs TCLP **Units:** mg/L **Target List:** 8270_LL20

Collected: 02/12/07 **Received:** 02/13/07

Prep Factor: 1 **Prepared:** 02/23/07 **Analyzed:** 02/27/07 14:12 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
106-46-7	1,4-Dichlorobenzene	1	ND		0.100	7.50
121-14-2	2,4-Dinitrotoluene	1	ND		0.100	0.130
87-68-3	Hexachloro-1,3-butadiene	1	ND		0.100	0.500
118-74-1	Hexachlorobenzene	1	ND		0.100	0.130
67-72-1	Hexachloroethane	1	ND		0.100	3.00
95-48-7	2-Methylphenol (o-Cresol)	1	ND		0.100	200.
108-39-4	3-Methylphenol (m-Cresol)	1	ND	A7	0.100	200.
106-44-5	4-Methylphenol (p-Cresol)	1	ND	A7	0.100	200.
98-95-3	Nitrobenzene	1	ND		0.100	2.00
87-86-5	Pentachlorophenol	1	ND		0.250	100.
110-86-1	Pyridine	1	ND		0.100	5.00
95-95-4	2,4,5-Trichlorophenol	1	ND		0.250	400.
88-06-2	2,4,6-Trichlorophenol	1	ND		0.100	2.00

13 compound(s) reported

2/28/2007 17:55:30

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Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: BLACK TANK (021207) **Site:** None

Project: MS BLUFFS/LA002656.1.13 **Project No.:** 2066779 **Sample Qu:**

Lab ID: 20501679 (TCLP) **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 82704

Method: 8081 Pests TCLP **Units:** mg/L **Target List:** 8081_LL20

Collected: 02/12/07 **Received:** 02/13/07

Prep Factor: 1 **Prepared:** 02/23/07 **Analyzed:** 02/27/07 21:17 SRA (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
58-89-9	gamma-BHC (Lindane)	1	ND		0.000500	0.400
57-74-9	Chlordane	1	ND		0.00100	0.0300
72-20-8	Endrin	1	ND		0.00100	0.0200
76-44-8	Heptachlor	1	ND		0.000500	0.00800
1024-57-3	Heptachlor epoxide	1	ND		0.000500	0.00800
72-43-5	Methoxychlor	1	ND		0.00500	10.0
8001-35-2	Toxaphene	1	ND		0.0200	0.500

7 compound(s) reported

2/28/2007 17:55:32

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: BLACK TANK (021207) **Site:** None

Project: MS BLUFFS/LA002656.1.13 **Project No.:** 2066779 **Sample Qu:**

Lab ID: 20501679 (TCLP) **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 82425

Method: 8151 Herbs TCLP **Units:** mg/L **Target List:** 8151_LL20

Collected: 02/12/07 **Received:** 02/13/07

Prep Factor: 1 **Prepared:** 02/23/07 **Analyzed:** 02/28/07 03:58 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
94-75-7	2,4-D	1	ND		0.0200	10.0
93-72-1	2,4,5-TP (Silvex)	1	ND		0.00500	1.00

2 compound(s) reported

2/28/2007 17:55:33

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: WHITE TANK (021207) **Site:** None

Project: MS BLUFFS/LA002656.1.13 **Project No.:** 2066779 **Sample Qu:**

Lab ID: 20501680 (TCLP) **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 82704

Method: 8081 Pests TCLP **Units:** mg/L **Target List:** 8081_LL20

Collected: 02/12/07 **Received:** 02/13/07

Prep Factor: 1 **Prepared:** 02/23/07 **Analyzed:** 02/27/07 22:06 SRA (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
58-89-9	gamma-BHC (Lindane)	1	ND		0.000500	0.400
57-74-9	Chlordane	1	ND		0.00100	0.0300
72-20-8	Endrin	1	ND		0.00100	0.0200
76-44-8	Heptachlor	1	ND		0.000500	0.00800
1024-57-3	Heptachlor epoxide	1	ND		0.000500	0.00800
72-43-5	Methoxychlor	1	ND		0.00500	10.0
8001-35-2	Toxaphene	1	ND		0.0200	0.500

7 compound(s) reported

2/28/2007 17:55:33

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U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

Pace Analytical®
New Orleans Laboratory

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: WHITE TANK (021207) **Site:** None

Project: MS BLUFFS/LA002656.1.13 **Project No.:** 2066779 **Sample Qu:**

Lab ID: 20501680 (TCLP) **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 82425

Method: 8151 Herbs TCLP **Units:** mg/L **Target List:** 8151_LL20

Collected: 02/12/07 **Received:** 02/13/07

Prep Factor: 1 **Prepared:** 02/23/07 **Analyzed:** 02/28/07 05:20 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
94-75-7	2,4-D	1	ND		0.0200	10.0
93-72-1	2,4,5-TP (Silvex)	1	ND		0.00500	1.00

2 compound(s) reported

2/28/2007 17:55:33

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit denotes an actual regulatory limit or a client-requested notification limit.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Phone: 504.469.0333
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LELAP # 02006

Client ID: BLACK TANK (021207)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.1.13
Site: None
Lab ID: 20501679 (TCLP)
Project No.: 2066779
Description: None
Matrix: Water
%Moisture: n/a
Collected: 02/12/07
Received: 02/13/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82487	1	ND		mg/L	0.200	17-Feb-07	17-Feb-07 18:50	KJR (1)	5.00
Barium	EPA 6010	82487	1	ND		mg/L	2.00	17-Feb-07	17-Feb-07 18:50	KJR (1)	100.
Cadmium	EPA 6010	82487	1	ND		mg/L	0.100	17-Feb-07	17-Feb-07 18:50	KJR (1)	1.00
Chromium	EPA 6010	82487	1	ND		mg/L	0.200	17-Feb-07	17-Feb-07 18:50	KJR (1)	5.00
Lead	EPA 6010	82487	1	ND		mg/L	0.200	17-Feb-07	17-Feb-07 18:50	KJR (1)	5.00
Mercury	EPA 7470	82488	1	ND		mg/L	0.000200	21-Feb-07	21-Feb-07 10:35	MHB1 (1)	0.200
Selenium	EPA 6010	82487	1	ND		mg/L	0.200	17-Feb-07	17-Feb-07 18:50	KJR (1)	1.00
Silver	EPA 6010	82487	1	ND		mg/L	0.200	17-Feb-07	17-Feb-07 18:50	KJR (1)	5.00

8 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

2/28/2007 17:55:36

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Report of Laboratory Analysis

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: WHITE TANK (021207)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.1.13
Site: None
Lab ID: 20501680 (TCLP)
Project No.: 2066779
Description: None
Matrix: Water
%Moisture: n/a
Collected: 02/12/07
Received: 02/13/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82487	1	ND		mg/L	0.200	17-Feb-07	17-Feb-07 18:55	KJR (1)	5.00
Barium	EPA 6010	82487	1	ND		mg/L	2.00	17-Feb-07	17-Feb-07 18:55	KJR (1)	100.
Cadmium	EPA 6010	82487	1	ND		mg/L	0.100	17-Feb-07	17-Feb-07 18:55	KJR (1)	1.00
Chromium	EPA 6010	82487	1	ND		mg/L	0.200	17-Feb-07	17-Feb-07 18:55	KJR (1)	5.00
Lead	EPA 6010	82487	1	ND		mg/L	0.200	17-Feb-07	17-Feb-07 18:55	KJR (1)	5.00
Mercury	EPA 7470	82488	1	ND		mg/L	0.000200	21-Feb-07	21-Feb-07 10:37	MHB1 (1)	0.200
Selenium	EPA 6010	82487	1	ND		mg/L	0.200	17-Feb-07	17-Feb-07 18:55	KJR (1)	1.00
Silver	EPA 6010	82487	1	ND		mg/L	0.200	17-Feb-07	17-Feb-07 18:55	KJR (1)	5.00

8 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
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LELAP # 02006

Client ID: BLACK TANK (021207)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.1.13
Site: None
Lab ID: 20501679
Project No.: 2066779
Description: None
Matrix: Water
%Moisture: n/a
Collected: 02/12/07
Received: 02/13/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Cyanide, Reactive	SW-846 7.3.3.	82395	1	ND		mg/kg	25.0	19-Feb-07	19-Feb-07 15:25	TAE (1)	
Flash Point	EPA 1010	82372	1	>100		deg C		14-Feb-07	14-Feb-07 13:05	SMS2 (1)	
pH	EPA 9040	82327	1	7.77		Std. Units		13-Feb-07	13-Feb-07 17:00	SMS2 (1)	
Sulfide, Reactive	SW-846 7.3.4.	82394	1	ND		mg/kg	50.0	15-Feb-07	15-Feb-07 10:00	SMS2 (1)	

4 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

2/28/2007 17:55:39

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: WHITE TANK (021207)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.1.13
Site: None
Lab ID: 20501680
Project No.: 2066779
Description: None
Matrix: Water
%Moisture: n/a
Collected: 02/12/07
Received: 02/13/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Cyanide, Reactive	SW-846 7.3.3.	82395	1	ND		mg/kg	25.0	19-Feb-07	19-Feb-07	15:25 TAE (1)	
Flash Point	EPA 1010	82372	1	>100		deg C		14-Feb-07	14-Feb-07	13:05 SMS2 (1)	
pH	EPA 9040	82327	1	7.65		Std. Units		13-Feb-07	13-Feb-07	17:00 SMS2 (1)	
Sulfide, Reactive	SW-846 7.3.4.	82394	1	ND		mg/kg	50.0	15-Feb-07	15-Feb-07	10:00 SMS2 (1)	

4 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
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Report of Quality Control

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Method: EPA 8260 **Project:** 2066779 **LCS:** 20502838 2/19/2007 12:17:00 PM

Batch: 82542 **MS:** 20502839 2/19/2007 1:47:00 PM

Units: mg/L **Original for MS:** 20500752 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Benzene	0.4	0.3322		83			0.4	0.00	0.3694	0.365	92	91	1	70 - 135	60 - 144	20	
2-Butanone (MEK)	0.4	0.3952		99			0.4	0.00	0.4	0.1526	100	38	90 *	32 - 157	20 - 168	20	A11
Carbon tetrachloride	0.4	0.4272		107			0.4	0.00	0.4848	0.4994	121	125	3	50 - 166	44 - 170	20	
Chlorobenzene	0.4	0.4364		109			0.4	0.00	0.4708	0.4626	118	116	2	73 - 129	67 - 134	20	
Chloroform	0.4	0.3846		96			0.4	0.00	0.4218	0.4118	106	103	2	71 - 133	64 - 140	20	
1,4-Dichlorobenzene	0.4	0.4594		115			0.4	0.00	0.4884	0.4664	122	117	5	66 - 133	64 - 133	20	
1,2-Dichloroethane	0.4	0.4704		118			0.4	0.00	0.4942	0.4384	124	110	12	53 - 164	51 - 161	20	
1,1-Dichloroethene	0.4	0.3414		85			0.4	0.00	0.3944	0.3962	99	99	0	51 - 143	44 - 152	20	
Hexachloro-1,3-butadiene	0.4	0.3076		77			0.4	0.00	0.313	0.309	78	77	1	49 - 167	27 - 195	20	
Tetrachloroethene	0.4	0.389		97			0.4	0.00	0.4382	0.4542	110	114	4	42 - 156	39 - 151	20	
Trichloroethene	0.4	0.4118		103			0.4	0.00	0.47	0.4616	118	115	2	69 - 136	61 - 141	20	
Vinyl chloride	0.4	0.4554		114			0.4	0.00	0.4018	0.43	101	108	7	40 - 146	28 - 161	20	

12 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

2/28/2007 17:55:42

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Report of Quality Control

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LELAP # 02006

Method: EPA 8270 **Project:** 2066779 **LCS:** 20503211 2/26/2007 6:03:00 PM

Batch: 82622 **MS:** 20503617 2/26/2007 6:32:00 PM

Units: mg/L **Original for MS:** 20502023 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
1,4-Dichlorobenzene	0.5	0.1583		32			0.5	0.00	0.2545	0.2372	51	47	7	17 - 97	12 - 98	20	
2,4-Dinitrotoluene	0.5	0.2305		46			0.5	0.00	0.2868	0.3126	57	63	9	43 - 121	36 - 125	20	
Hexachloro-1,3-butadiene	0.5	0.1146		23			0.5	0.00	0.2	0.2146	40	43	7	20 - 101	14 - 102	20	
Hexachlorobenzene	0.5	0.2396		48			0.5	0.00	0.3324	0.3576	67	72	7	44 - 119	32 - 119	20	
Hexachloroethane	0.5	0.1361		27			0.5	0.00	0.2346	0.2201	47	44	6	15 - 96	10 - 101	20	
2-Methylphenol (o-Cresol)	0.5	0.2087		42			0.5	0.00	0.2445	0.2442	49	49	0	32 - 115	27 - 118	20	
4-Methylphenol (p-Cresol)	0.5	0.2083		42			0.5	0.00	0.2437	0.2475	49	50	2	33 - 116	27 - 119	20	A7
Nitrobenzene	0.5	0.2833		57			0.5	0.00	0.3072	0.3141	61	63	2	31 - 118	16 - 136	20	
Pentachlorophenol	0.5	0.1912		38			0.5	0.00	0.3387	0.3881	68	78	14	32 - 133	24 - 147	20	
Pyridine	0.5	0.1529		31 *			0.5	0.00	0.1149	0.0964	23 *	19 *	18	40 - 120	40 - 120	20	
2,4,5-Trichlorophenol	0.5	0.2366		47			0.5	0.00	0.2687	0.3049	54	61	13	41 - 120	35 - 122	20	
2,4,6-Trichlorophenol	0.5	0.2557		51			0.5	0.00	0.3073	0.3284	62	66	7	39 - 120	33 - 124	20	

12 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

2/28/2007 17:55:42

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Report of Batch Surrogate Recovery

Pace Analytical Services, Inc.
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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Report: 2066779 **Batch: 82542**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20501679	Sample S1	131 *	108	101					
20501680	Sample S1	132 *	109	98					
20502837	BLANK S1	131 *	108	101					
20502838	LCS	106	97	101					
20502839	MS	105	96	100					
20502840	MSD	103	92	100					
	QC limits:	71-129	68-124	74-122					

Sur 1: 4-Bromofluorobenzene (S)
Sur 2: Dibromofluoromethane (S)
Sur 3: Toluene-d8 (S)

*** denotes surrogate recovery outside of QC limits.**
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

2/28/2007 17:55:45

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Report of Batch Surrogate Recovery

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Report: 2066779 **Batch: 82622**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20501679	Sample	80	75	31	84	21	60		
20501680	Sample	63	66	27	66	19	50		
20503210	BLANK	73	58	30	65	21	46		
20503211	LCS	71	55	28	59	20	45		
20503617	MS	83	71	35	64	22	58		
20503618	MSD	95	74	33	65	21	63		
	QC limits:	25-133	36-108	10-109	21-120	15-113	17-130		

Sur 1: 2,4,6-Tribromophenol (S)
Sur 2: 2-Fluorobiphenyl (S)
Sur 3: 2-Fluorophenol (S)
Sur 4: Nitrobenzene-d5 (S)
Sur 5: Phenol-d5 (S)
Sur 6: Terphenyl-d14 (S)

*** denotes surrogate recovery outside of QC limits.**
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

2/28/2007 17:55:45

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Report of Method Blank

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LELAP # 02006

Lab ID: 20502837 (TCLP)

Description: 8260 VOAs Full List TCLP, BLK **Project No.:** 2066779

Method: EPA 8260 **Batch:** 82542 **Units:** mg/L

Prep Factor: 1 **Leached:** **Prepared:** 19-Feb-07 **Analyzed:** 02/19/07 11:54 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
71-43-2	Benzene	1	ND		0.250
78-93-3	2-Butanone (MEK)	1	ND	A11	0.500
56-23-5	Carbon tetrachloride	1	ND		0.250
108-90-7	Chlorobenzene	1	ND		0.250
67-66-3	Chloroform	1	ND		0.250
107-06-2	1,2-Dichloroethane	1	ND		0.250
75-35-4	1,1-Dichloroethene	1	ND		0.250
127-18-4	Tetrachloroethene	1	ND		0.250
79-01-6	Trichloroethene	1	ND		0.250
75-01-4	Vinyl chloride	1	ND		0.250

10 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Report of Method Blank

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20503210 (TCLP)

Description: 8270 SVOAs TCLP Blank **Project No.:** 2066779

Method: EPA 8270 **Batch:** 82622 **Units:** mg/L

Prep Factor: 1 **Leached:** **Prepared:** 23-Feb-07 **Analyzed:** 02/26/07 17:33 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
106-46-7	1,4-Dichlorobenzene	1	ND		0.100
121-14-2	2,4-Dinitrotoluene	1	ND		0.100
87-68-3	Hexachloro-1,3-butadiene	1	ND		0.100
118-74-1	Hexachlorobenzene	1	ND		0.100
67-72-1	Hexachloroethane	1	ND		0.100
95-48-7	2-Methylphenol (o-Cresol)	1	ND		0.100
108-39-4	3-Methylphenol (m-Cresol)	1	ND	A7	0.100
106-44-5	4-Methylphenol (p-Cresol)	1	ND	A7	0.100
98-95-3	Nitrobenzene	1	ND		0.100
87-86-5	Pentachlorophenol	1	ND		0.250
110-86-1	Pyridine	1	ND		0.100
95-95-4	2,4,5-Trichlorophenol	1	ND		0.250
88-06-2	2,4,6-Trichlorophenol	1	ND		0.100

13 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

2/28/2007 17:55:48

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Report of Quality Control

Pace Analytical Services, Inc.
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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Method: EPA 8081 **Project:** 2066779 **LCS:** 20503614 2/27/2007 9:00:00 PM

Batch: 82704 **MS:** 20503615 2/27/2007 9:33:00 PM

Units: mg/L **Original for MS:** 20501679 Client Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
gamma-BHC (Lindane)	0.005	0.004535		91			0.005	0.00	0.004203	0.003951	84	79	6	39 - 153	18 - 171	20	
Endrin	0.005	0.005975		120			0.005	0.00	0.006198	0.006037	124	121	3	49 - 171	30 - 187	20	
Heptachlor	0.005	0.003001		60			0.005	0.00	0.00355	0.003313	71	66	7	33 - 152	14 - 159	20	
Heptachlor epoxide	0.005	0.004134		83			0.005	0.00	0.00426	0.004105	85	82	4	45 - 144	24 - 158	20	
Methoxychlor	0.005	0.004473		90			0.005	0.00	0.005095	0.00491	102	98	4	19 - 178	10 - 194	20	

5 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

2/28/2007 17:55:51

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LELAP # 02006

Method: EPA 8151 **Project:** 2066779 **LCS:** 20503463 2/28/2007 3:30:00 AM

Batch: 82425 **MS:** 20503464 2/28/2007 4:25:00 AM

Units: mg/L **Original for MS:** 20501679 Client Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
2,4-D	0.1	0.1148		115			0.1	0.00	0.1203	0.1106	120	111	8	25 - 163	10 - 182	20	
2,4,5-TP (Silvex)	0.01	0.01144		114			0.01	0.00	0.01162	0.01128	116	113	3	30 - 165	15 - 174	20	

2 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Report of Batch Surrogate Recovery

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Report: 2066779 **Batch: 82425**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20501679	Sample	114	133						
20501680	Sample	111	114						
20502281	BLANK	45	51						
20502282	LCS	61	66						
20503462	BLANK	126	114						
20503463	LCS	121	116						
20503464	MS	126	141						
20503465	MSD	120	149						
	QC limits:	10-181	10-181						

Sur 1: 2,4-DCPA (Conf)(S)
Sur 2: 2,4-DCPA (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

2/28/2007 17:55:54

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LELAP # 02006

Report: 2066779 **Batch: 82704**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20501679	Sample	80	87	50	31				
20501680	Sample	66	66	49	46				
20503613	BLANK	64	64	56	54				
20503614	LCS	87	88	62	59				
20503615	MS	84	93	48	27				
20503616	MSD	82	90	38	24				
	QC limits:	10-157	10-157	18-171	18-171				

Sur 1: Decachlorobiphenyl (Conf)(S)
Sur 2: Decachlorobiphenyl (S)
Sur 3: Tetrachloro-m-xylene (Conf)(S)
Sur 4: Tetrachloro-m-xylene (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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Report of Method Blank

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LELAP # 02006

Lab ID: 20503462 (TCLP)

Description: 8151 Herbs TCLP Blank **Project No.:** 2066779

Method: EPA 8151 **Batch:** 82425 **Units:** mg/L

Prep Factor: 1 **Leached:** **Prepared:** 23-Feb-07 **Analyzed:** 02/28/07 03:03 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
94-75-7	2,4-D	1	ND		0.0200
93-72-1	2,4,5-TP (Silvex)	1	ND		0.00500

2 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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LELAP # 02006

Lab ID: 20503613 (TCLP)

Description: 8081 Pests TCLP Blank **Project No.:** 2066779

Method: EPA 8081 **Batch:** 82704 **Units:** mg/L

Prep Factor: 1 **Leached:** **Prepared:** 23-Feb-07 **Analyzed:** 02/27/07 20:44 SRA (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
58-89-9	gamma-BHC (Lindane)	1	ND		0.000500
57-74-9	Chlordane	1	ND		0.00100
72-20-8	Endrin	1	ND		0.00100
76-44-8	Heptachlor	1	ND		0.000500
1024-57-3	Heptachlor epoxide	1	ND		0.000500
72-43-5	Methoxychlor	1	ND		0.00500
8001-35-2	Toxaphene	1	ND		0.0200

7 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Project: 2066779

Parameter	Batch	Blank	ARL	Units	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS DUP RPD	QC Limits LCS	QC Limits MS/MSD	RPD Max	Qu
Arsenic	82487	ND	0.200	mg/L	2	97			2	101	103	2	79 - 122	68 - 130	20	
Barium	82487	ND	2.00	mg/L	2	101			2	100	105	4	80 - 120	56 - 133	20	
Cadmium	82487	ND	0.100	mg/L	2	95			2	93	98	5	81 - 119	44 - 146	20	
Chromium	82487	ND	0.200	mg/L	2	94			2	92	96	5	81 - 120	58 - 135	20	
Lead	82487	ND	0.200	mg/L	2	95			2	93	96	3	79 - 122	58 - 131	20	
Selenium	82487	ND	0.200	mg/L	2	95			2	100	103	3	76 - 120	59 - 131	20	
Silver	82487	ND	0.200	mg/L	1	99			1	99	105	6	67 - 129	10 - 154	20	
Mercury	82488	ND	0.200	ug/L	1	99			1	99	98	1	80 - 120	75 - 125	20	

2/28/2007 17:56:01

ARL denotes Adjusted Reporting Limit , corrected for sample size, dilution and moisture content as applicable.
* denotes recovery outside of QC limits.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Wet Chemistry Quality Control Results

Project: 2066779

Parameter	Batch	Blank	ARL	Units	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	RPD Max	Qu
Cyanide, Reac	82395	ND	25.0	mg/kg	100	9								1 - 110	-		
Cyanide, Reac	82395	ND	25.0	mg/kg	100	9			100	3			0	1 - 110	1 - 110	20	
Flash Point	82372			deg C	27	100								-	-		
pH	82327			1. Units	6	100							0	97 - 103	-	20	
Sulfide, Reacti	82394	ND	50.0	mg/kg	500	84								1 - 110	-		
Sulfide, Reacti	82394	ND	50.0	mg/kg	500	88								1 - 110	-		
Sulfide, Reacti	82394	ND	50.0	mg/kg	500	88			500	28			0	1 - 110	1 - 110	20	

2/28/2007 17:56:04

ARL denotes Adjusted Reporting Limit , corrected for sample size, dilution and moisture content as applicable.
* denotes recovery outside of QC limits.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Report Qualifiers

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LELAP # 02006

Project: 2066779

Analyte Qualifiers

Qualifier	Qualifier Description
A7	3-Methylphenol and 4-methylphenol coelute under the conditions used for analysis, therefore the precise isomer in the sample cannot be determined. The sample concentration is arbitrarily reported as 4-methylphenol.
A11	This analyte is a common solvent. Its presence in field samples may be an artifact of sample collection, transport, laboratory storage or analysis.

QC Qualifiers

Qualifier	Qualifier Description
S1	The surrogate recovery was above the QC limit. The data are reported without qualification since the associated target analytes were not detected in the sample.

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ARCADIS

Laboratory Task Order No./P.O. No. _____ **CHAIN-OF-CUSTODY RECORD** Page 1 of 1

Project Number/Name LA002656.1.13/ Miss Bluffs

Project Location Vicksburg, MS

Laboratory PACE

Project Manager Craig Deroun

Sampler(s)/Affiliation K. Montgomery/G Cook (ARCADIS)

2066779

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE: Full Scan TCLP 1 Amber glass 4°C	RCI 250 ml HDPE 4°C					Remarks	Total
Black Tank (021207)	L	1445		2	1			2850/6		Wash Chmct. on Purge Wtr	3
White Tank (021207)	L	1500		2	1				680	HOT & Wash Ch. on Purge Wtr	3

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers 6

Relinquished by: [signature]	Organization: Arcadis	Date 2/12/07	Time 1604	Seal Intact?	
Received by: [signature]	Organization: Arcadis	Date 2/12/07	Time 1604	Yes No N/A	
Relinquished by: [signature]	Organization: Arcadis	Date 2/13/07	Time 1135	Seal Intact?	
Received by: [signature] Received at Pace	Organization: PACE PACE	Date 2/13/07 2/13/07	Time 1135 1440	Yes No N/A	

2.0°

Special Instructions/Remarks: _____

Delivery Method: ☐ In Person ☐ Common Carrier _____ SPECIFY ☒ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name LA002656.1.13/ Miss Bluffs

Project Location Vicksburg, MS

Laboratory PACE

Project Manager Craig Deroun

Sampler(s)/Affiliation ~~K. Montgomery/G Cook~~ (ARCADIS)

2066779

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	FULLSCAN TCLP 1 clear glass 4°C	RCI 250 ml HDPE 4°C					Remarks	Total
Black Tank (031207)	L	1445		2	1			2501 6		Wash Chmct. on Purge Wtr	3
White Tank (031207)	L	1500		2	1				680	HOT ! Wash Ch. on Purge Wtr	3

Total No. of Bottles/ Containers 6

Sample Matrix: L = Liquid; S = Solid; A = Air

Relinquished by:		Organization: Arcadis	Date 2/12/07	Time 1604	Seal Intact? Yes No N/A
Received by:		Organization: Arcadis	Date 2/12/07	Time 1604	
Relinquished by:		Organization: Arcadis	Date 2/13/07	Time 1135	Seal Intact? Yes No N/A
Received by: Relinquished		Organization: PACE PACE	Date 2/13/07 2/13/07	Time 1135 1440	

2.0°

Special Instructions/Remarks: _____

Delivery Method: ☐ In Person ☐ Common Carrier _____ SPECIFY ☒ Lab Courier ☐ Other _____ SPECIFY

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ARCADIS Geraghty & Miller

March 07, 2007

Craig Derouen
Arcadis Geraghty & Miller
10352 Plaza Americana Drive
Baton Rouge, LA 70816

RE: Project: 2066782
RE: Project ID: MS BLUFFS/LA002656.0001.000013

Dear Craig Derouen:

Enclosed are the analytical results for sample(s) received by the laboratory on February 13, 2007. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Cindy Olavesen

Cindy Olavesen

ACCREDITED IN ACCORDANCE WITH nelac

REPORT OF LABORATORY ANALYSIS

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LELAP # 02006

Report of Laboratory Analysis

Project Number: 2066782

3/7/2007 15:58:16

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Sample Cross Reference Report

Pace Analytical Services, Inc.
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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.0001.000013

Project No.: 2066782

Sample ID	Lab ID	Matrix	Collection Date/Time		Received Date/Time	
MW-13 (021207)	20501730	Water	02/12/2007	09:45	02/13/2007	14:40
MW-12C (021207)	20501731	Water	02/12/2007	10:55	02/13/2007	14:40
MW-12 (021207)	20501732	Water	02/12/2007	11:55	02/13/2007	14:40
TB-06 (021207)	20501733	Water	02/12/2007		02/13/2007	14:40

3/7/2007 15:58:19

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Project Narrative

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LELAP # 02006

Project: **2066782**

Narrative detail for GC semi-volatilves analyses:

Dinoseb is a poor performer by this method; QC recovery data may be poor or erratic as demonstrated by performance-based statistical evaluation

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Phone: 504.469.0333
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LELAP # 02006

Project: **2066782**

Sample Receipt Condition:

All samples were received in accordance with EPA protocol.

Holding Times:

All holding times were met.

Blanks:

All blank results were below reporting limits.

Laboratory Control Samples:

LCS recoveries outside of QC limits are qualified in the Report of Quality Control section.

Matrix Spikes and Duplicates:

MS or MSD recoveries outside of QC limits are qualified in the Report of Quality Control section.

Surrogates:

Surrogate recoveries outside of QC limits are qualified in the surrogate results section.

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Project Narrative

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Project: 2066782

Analytical Method	Batch	Sample used for QC
EPA 8081	82271	Client sample PZ-22A (020807) from project 2066695
EPA 8151	82528	Batch sample from another client
EPA 6010	82499	Project sample MW-12C (021207)
EPA 6010	82574	Batch sample from another client
EPA 8270	82377	Batch sample from another client
EPA 8260	82366	Client sample MW-11 (020807) from project 2066695

3/7/2007 15:58:49

For the sample used as the original for the DUP or MS/MSD for the batch:

Project sample means a sample from this project was used.
Client sample means a sample from the same client but in a different project was used.
Batch sample means a sample from the a different client was used.

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New Orleans Laboratory

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-13 (021207) **Site:** None

Project: MS BLUFFS/LA002656.0001.000013 **Project No.:** 2066782 **Sample Qu:**

Lab ID: 20501730 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82366

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/12/07 **Received:** 02/13/07

Prep Factor: 1 **Prepared:** 02/16/07 **Analyzed:** 02/16/07 00:00 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	0.890 J		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-13 (021207) **Site:** None

Project: MS BLUFFS/LA002656.0001.000013 **Project No.:** 2066782 **Sample Qu:**

Lab ID: 20501730 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82366

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/12/07 **Received:** 02/13/07

Prep Factor: 1 **Prepared:** 02/16/07 **Analyzed:** 02/16/07 00:00 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	ND	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-13 (021207) **Site:** None

Project: MS BLUFFS/LA002656.0001.000013 **Project No.:** 2066782 **Sample Qu:**

Lab ID: 20501730 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82377

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 02/12/07 **Received:** 02/13/07

Prep Factor: 1 **Prepared:** 02/19/07 **Analyzed:** 02/23/07 14:04 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

3/7/2007 15:58:52

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-12C (021207) **Site:** None

Project: MS BLUFFS/LA002656.0001.000013 **Project No.:** 2066782 **Sample Qu:**

Lab ID: 20501731 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82366

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/12/07 **Received:** 02/13/07

Prep Factor: 1 **Prepared:** 02/16/07 **Analyzed:** 02/16/07 00:19 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	200	ND	D2	1180	2000	
75-05-8	Acetonitrile	200	ND	D2	12.5	20000	
107-02-8	Acrolein	200	ND	D2	9.10	4000	
107-13-1	Acrylonitrile	200	ND	D2	4.90	4000	
107-05-1	Allyl chloride	200	ND	D2	1.56	2000	
71-43-2	Benzene	200	ND	D2	23.4	1000	
75-27-4	Bromodichloromethane	200	ND	D2	41.2	1000	
75-25-2	Bromoform	200	ND	D2	51.8	1000	
74-83-9	Bromomethane	200	ND	D2	387.	1000	
78-93-3	2-Butanone (MEK)	200	ND	D2	450.	2000	
75-15-0	Carbon disulfide	200	ND	D2	51.3	1000	
56-23-5	Carbon tetrachloride	200	17200	D2	118.	1000	
108-90-7	Chlorobenzene	200	ND	D2	23.8	1000	
75-00-3	Chloroethane	200	ND	D2	129.	1000	
67-66-3	Chloroform	200	5780	D2	95.8	1000	
74-87-3	Chloromethane	200	ND	D2	61.0	1000	
126-99-8	Chloroprene	200	ND	D2	0.784	1000	
96-12-8	1,2-Dibromo-3-chloropropane	200	ND	D2	244.	1000	
124-48-1	Dibromochloromethane	200	ND	D2	29.1	1000	
106-93-4	1,2-Dibromoethane (EDB)	200	ND	D2	134.	1000	
74-95-3	Dibromomethane	200	ND	D2	1.39	1000	
110-57-6	trans-1,4-Dichloro-2-butene	200	ND	D2	1.86	1000	
75-71-8	Dichlorodifluoromethane	200	ND	D2	164.	1000	
75-34-3	1,1-Dichloroethane	200	ND	D2	103.	1000	
107-06-2	1,2-Dichloroethane	200	ND	D2	42.5	1000	
75-35-4	1,1-Dichloroethene	200	ND	D2	98.6	1000	
156-60-5	trans-1,2-Dichloroethene	200	ND	D2	147.	1000	
78-87-5	1,2-Dichloropropane	200	ND	D2	65.6	1000	
10061-01-5	cis-1,3-Dichloropropene	200	ND	D2	17.4	1000	
10061-02-6	trans-1,3-Dichloropropene	200	ND	D2	43.3	1000	
123-91-1	1,4-Dioxane (p-Dioxane)	200	ND	D2	16.8	50000	
100-41-4	Ethylbenzene	200	ND	D2	23.9	1000	
97-63-2	Ethyl methacrylate	200	ND	D2	0.475	2000	

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-12C (021207) **Site:** None

Project: MS BLUFFS/LA002656.0001.000013 **Project No.:** 2066782 **Sample Qu:**

Lab ID: 20501731 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82366

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/12/07 **Received:** 02/13/07

Prep Factor: 1 **Prepared:** 02/16/07 **Analyzed:** 02/16/07 00:19 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	200	ND	D2	93.6	2000	
74-88-4	Iodomethane	200	ND	D2	0.621	1000	
78-83-1	Isobutanol	200	ND	D2	18.7	50000	
126-98-7	Methacrylonitrile	200	ND	D2	16.2	20000	
75-09-2	Methylene chloride	200	ND	D2	142.	1000	
80-62-6	Methyl methacrylate	200	ND	D2	0.997	2000	
108-10-1	4-Methyl-2-pentanone (MIBK)	200	ND	D2	174.	2000	
107-12-0	Propionitrile	200	ND	D2	6.35	4000	
100-42-5	Styrene	200	ND	D2	15.3	1000	
630-20-6	1,1,1,2-Tetrachloroethane	200	ND	D2	0.291	1000	
79-34-5	1,1,2,2-Tetrachloroethane	200	ND	D2	47.7	1000	
127-18-4	Tetrachloroethene	200	ND	D2	32.5	1000	
108-88-3	Toluene	200	ND	D2	26.1	1000	
71-55-6	1,1,1-Trichloroethane	200	ND	D2	122.	1000	
79-00-5	1,1,2-Trichloroethane	200	122.	J D2	65.6	1000	
79-01-6	Trichloroethene	200	150.	J D2	33.7	1000	
75-69-4	Trichlorofluoromethane	200	ND	D2	314.	1000	
96-18-4	1,2,3-Trichloropropane	200	ND	D2	1.49	1000	
95-63-6	1,2,4-Trimethylbenzene	200	ND	D2	0.0844	1000	
108-67-8	1,3,5-Trimethylbenzene	200	ND	D2	0.0614	1000	
108-05-4	Vinyl acetate	200	ND	D2	0.686	2000	
75-01-4	Vinyl chloride	200	ND	D2	92.7	1000	
	m&p-Xylene	200	ND	D2	30.2	1000	
95-47-6	o-Xylene	200	ND	D2	28.3	1000	

57 compound(s) reported

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Client ID: MW-12C (021207) **Site:** None

Project: MS BLUFFS/LA002656.0001.000013 **Project No.:** 2066782 **Sample Qu:**

Lab ID: 20501731 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82377

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 02/12/07 **Received:** 02/13/07

Prep Factor: 1 **Prepared:** 02/19/07 **Analyzed:** 02/23/07 14:34 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: MW-12 (021207) **Site:** None

Project: MS BLUFFS/LA002656.0001.000013 **Project No.:** 2066782 **Sample Qu:**

Lab ID: 20501732 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82366

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/12/07 **Received:** 02/13/07

Prep Factor: 1 **Prepared:** 02/15/07 **Analyzed:** 02/15/07 23:41 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-12 (021207) **Site:** None

Project: MS BLUFFS/LA002656.0001.000013 **Project No.:** 2066782 **Sample Qu:**

Lab ID: 20501732 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82366

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/12/07 **Received:** 02/13/07

Prep Factor: 1 **Prepared:** 02/15/07 **Analyzed:** 02/15/07 23:41 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	ND	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
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Client: Arcadis Geraghty & Miller

Client ID: MW-12 (021207) **Site:** None

Project: MS BLUFFS/LA002656.0001.000013 **Project No.:** 2066782 **Sample Qu:**

Lab ID: 20501732 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82377

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 02/12/07 **Received:** 02/13/07

Prep Factor: 1 **Prepared:** 02/19/07 **Analyzed:** 02/23/07 15:03 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: TB-06 (021207) **Site:** None

Project: MS BLUFFS/LA002656.0001.000013 **Project No.:** 2066782 **Sample Qu:**

Lab ID: 20501733 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82366

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/12/07 **Received:** 02/13/07

Prep Factor: 1 **Prepared:** 02/15/07 **Analyzed:** 02/15/07 23:22 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: TB-06 (021207) **Site:** None

Project: MS BLUFFS/LA002656.0001.000013 **Project No.:** 2066782 **Sample Qu:**

Lab ID: 20501733 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82366

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/12/07 **Received:** 02/13/07

Prep Factor: 1 **Prepared:** 02/15/07 **Analyzed:** 02/15/07 23:22 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	ND	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: MW-13 (021207) **Site:** None

Project: MS BLUFFS/LA002656.0001.000013 **Project No.:** 2066782 **Sample Qu:**

Lab ID: 20501730 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82271

Method: 8081 Pests Water **Units:** ug/L **Target List:** 8081_WL20

Collected: 02/12/07 **Received:** 02/13/07

Prep Factor: 1 **Prepared:** 02/19/07 **Analyzed:** 03/05/07 18:32 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: MW-13 (021207) **Site:** None

Project: MS BLUFFS/LA002656.0001.000013 **Project No.:** 2066782 **Sample Qu:**

Lab ID: 20501730 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82528

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 02/12/07 **Received:** 02/13/07

Prep Factor: 1 **Prepared:** 02/19/07 **Analyzed:** 02/28/07 10:27 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND		0.224	2.00	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: MW-12C (021207) **Site:** None

Project: MS BLUFFS/LA002656.0001.000013 **Project No.:** 2066782 **Sample Qu:**

Lab ID: 20501731 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82271

Method: 8081 Pests Water **Units:** ug/L **Target List:** 8081_WL20

Collected: 02/12/07 **Received:** 02/13/07

Prep Factor: 1 **Prepared:** 02/19/07 **Analyzed:** 03/05/07 18:49 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

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DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
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Client: Arcadis Geraghty & Miller

Client ID: MW-12C (021207) **Site:** None

Project: MS BLUFFS/LA002656.0001.000013 **Project No.:** 2066782 **Sample Qu:**

Lab ID: 20501731 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82528

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 02/12/07 **Received:** 02/13/07

Prep Factor: 1 **Prepared:** 02/19/07 **Analyzed:** 02/28/07 11:22 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	2000	14400	D1	447.	4000	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: MW-12 (021207) **Site:** None

Project: MS BLUFFS/LA002656.0001.000013 **Project No.:** 2066782 **Sample Qu:**

Lab ID: 20501732 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82271

Method: 8081 Pests Water **Units:** ug/L **Target List:** 8081_WL20

Collected: 02/12/07 **Received:** 02/13/07

Prep Factor: 1 **Prepared:** 02/19/07 **Analyzed:** 03/05/07 19:05 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: MW-12 (021207) **Site:** None

Project: MS BLUFFS/LA002656.0001.000013 **Project No.:** 2066782 **Sample Qu:**

Lab ID: 20501732 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82528

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 02/12/07 **Received:** 02/13/07

Prep Factor: 1 **Prepared:** 02/19/07 **Analyzed:** 02/28/07 10:55 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND		0.224	2.00	

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit denotes an actual regulatory limit or a client-requested notification limit.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/7/2007 15:58:57

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Client ID: MW-13 (021207)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001.000013
Site: None
Lab ID: 20501730
Project No.: 2066782
Description: None
Matrix: Water
%Moisture: n/a
Collected: 02/12/07
Received: 02/13/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
Arsenic	EPA 6010	82574	1	61.2		ug/L	6.05	10.0	02/21	03/05 14:54 KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/7/2007 15:59:00

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Client ID: MW-12C (021207)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001.000013
Site: None
Lab ID: 20501731
Project No.: 2066782
Description: None
Matrix: Water
%Moisture: n/a
Collected: 02/12/07
Received: 02/13/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
Arsenic	EPA 6010	82574	1	33.3		ug/L	6.05	10.0	02/21	03/05 14:59 KJR (1)	
Arsenic, Dissolved	EPA 6010	82499	1	31.4		ug/L	5.12	10.0	02/16	02/21 11:45 KJR (1)	

2 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Client ID: MW-12 (021207)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001.000013
Site: None
Lab ID: 20501732
Project No.: 2066782
Description: None
Matrix: Water
%Moisture: n/a
Collected: 02/12/07
Received: 02/13/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
Arsenic	EPA 6010	82574	1	30.0		ug/L	6.05	10.0	02/21	03/05 15:04 KJR (1)	
Arsenic, Dissolved	EPA 6010	82499	1	18.1		ug/L	5.12	10.0	02/16	02/21 12:05 KJR (1)	

2 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
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Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Phone: 504.469.0333
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LELAP # 02006

Method: EPA 8260 **Project:** 2066782 **LCS:** 20501903 2/15/2007 6:24:00 PM

Batch: 82366 **MS:** 20501906 2/15/2007 7:43:00 PM

Units: ug/L **Original for MS:** 20501088 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Acetone	50	61.81		124			50	0.00	49.29	58.95	99	118	18	22 - 165	11 - 171	20	A11
Acetonitrile	550	841.6		153			550	0.00	835.9	858.1	152	156	3	15 - 171	10 - 182	20	
Acrolein	100	72.95		73			100	0.00	72.19	79.46	72	80	10	10 - 150	10 - 150	20	
Acrylonitrile	150	139.6		93			150	0.00	135.1	171.4	90	114	24 *	10 - 150	10 - 150	20	
Allyl chloride	100	84.48		85			100	0.00	84.08	85.89	84	86	2	30 - 155	34 - 153	20	
Benzene	50	42.48		85			50	0.00	41.42	42.1	83	84	2	70 - 135	60 - 144	20	
Bromodichloromethane	50	45.04		90			50	0.00	43.25	45.51	87	91	5	61 - 156	59 - 156	20	
Bromoform	50	60.17		120			50	0.00	61.59	64.65	123	129	5	56 - 154	50 - 153	20	
Bromomethane	50	45.05		90			50	0.00	36.99	32.8	74	66	12	44 - 158	37 - 165	20	
2-Butanone (MEK)	50	53.35		107			50	0.00	53.77	62.72	108	125	15	32 - 157	20 - 168	20	A11
Carbon disulfide	50	35		70			50	0.00	36.74	37.12	74	74	1	40 - 147	36 - 152	20	
Carbon tetrachloride	50	41.8		84			50	0.00	44.18	42.24	88	85	4	50 - 166	44 - 170	20	
Chlorobenzene	50	52.7		105			50	0.00	50.38	51.36	101	103	2	73 - 129	67 - 134	20	
Chloroethane	50	39.42		79			50	0.00	31.33	33	63	66	5	38 - 163	34 - 170	20	
Chloroform	50	50.29		101			50	0.00	49.63	51.81	99	104	4	71 - 133	64 - 140	20	
Chloromethane	50	42.2		84			50	0.00	34.57	35.82	69	72	4	32 - 149	22 - 163	20	
Chloroprene	50	49.38		99			50	0.00	48.29	50.76	97	102	5	50 - 141	51 - 134	20	
1,2-Dibromo-3-chloropropa	50	50.22		100			50	0.00	56.41	55.87	113	112	1	34 - 145	28 - 150	20	
Dibromochloromethane	50	53.36		107			50	0.00	55.3	55.44	111	111	0	63 - 147	58 - 147	20	
1,2-Dibromoethane (EDB)	50	57.64		115			50	0.00	55.15	62.17	110	124	12	60 - 147	55 - 149	20	
Dibromomethane	50	51.26		103			50	0.00	48.59	51.49	97	103	6	60 - 147	56 - 148	20	
trans-1,4-Dichloro-2-butene	100	103.6		104			100	0.00	106.9	107.3	107	107	0	17 - 178	21 - 164	20	
1,1-Dichloroethane	50	45.75		92			50	0.00	45.48	46.96	91	94	3	64 - 135	59 - 142	20	
1,2-Dichloroethane	50	44.59		89			50	0.00	45.57	47.13	91	94	3	53 - 164	51 - 161	20	
1,1-Dichloroethene	50	45.12		90			50	0.00	45.35	47.17	91	94	4	51 - 143	44 - 152	20	
trans-1,2-Dichloroethene	50	47.56		95			50	0.00	47.05	48.51	94	97	3	59 - 139	56 - 145	20	
1,2-Dichloropropane	50	44.01		88			50	0.00	43.33	43.73	87	88	1	69 - 135	66 - 138	20	
cis-1,3-Dichloropropene	50	49.2		98			50	0.00	45.63	48.68	91	97	6	66 - 141	58 - 142	20	
trans-1,3-Dichloropropene	50	47.64		95			50	0.00	44.5	49.8	89	100	11	57 - 150	50 - 151	20	
1,4-Dioxane (p-Dioxane)	1050	1233		117			1050	0.00	1181	1464	113	139	21 *	17 - 176	19 - 172	20	
Ethylbenzene	50	47.53		95			50	0.00	44.72	45.98	89	92	3	67 - 132	58 - 138	20	
Ethyl methacrylate	100	107.1		107			100	0.00	99.7	113.5	100	114	13	57 - 143	45 - 170	20	
2-Hexanone	50	59.66		119			50	0.00	65.96	70.76	132	142	7	36 - 154	25 - 163	20	
Iodomethane	50	49.37		99			50	0.00	51.65	52.5	103	105	2	43 - 159	36 - 160	20	
Isobutanol	1050	1176		112			1050	0.00	1185	1410	113	134	17	32 - 160	26 - 169	20	
Methacrylonitrile	550	588.9		107			550	0.00	601.5	670.2	109	122	11	10 - 171	10 - 167	20	
Methylene chloride	50	56.7		113			50	0.00	60.66	61.61	121	123	2	29 - 159	19 - 158	20	A11
Methyl methacrylate	100	105.6		106			100	0.00	102.7	114.2	103	114	11	52 - 167	11 - 212	20	
4-Methyl-2-pentanone (MI	50	57.48		115			50	0.00	63.23	65.71	127	131	4	13 - 162	10 - 157	20	

3/7/2007 15:59:03

*** denotes recovery outside of QC limits.**
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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LELAP # 02006

Method: EPA 8260 **Project:** 2066782 **LCS:** 20501903 2/15/2007 6:24:00 PM

Batch: 82366 **MS:** 20501906 2/15/2007 7:43:00 PM

Units: ug/L **Original for MS:** 20501088 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Propionitrile	550	605.8		110			550	0.00	601	686.3	109	125	13	23 - 159	25 - 158	20	
Styrene	50	55.79		112			50	0.00	51.3	53.49	103	107	4	71 - 134	54 - 144	20	
1,1,1,2-Tetrachloroethane	50	54.66		109			50	0.00	54.57	55.47	109	111	2	73 - 146	65 - 150	20	
1,1,2,2-Tetrachloroethane	50	62.03		124			50	0.00	64.03	65.71	128	131	3	50 - 142	46 - 145	20	
Tetrachloroethene	50	59.31		119			50	0.00	55.78	53.91	112	108	3	42 - 156	39 - 151	20	
Toluene	50	45.84		92			50	0.00	41.39	43.85	83	88	6	72 - 132	64 - 139	20	
1,1,1-Trichloroethane	50	44.85		90			50	0.00	45.97	44.93	92	90	2	65 - 136	59 - 141	20	
1,1,2-Trichloroethane	50	53.71		107			50	0.00	50.52	54.72	101	109	8	67 - 144	60 - 146	20	
Trichloroethene	50	47.56		95			50	5.78	51.68	52.12	92	93	1	69 - 136	61 - 141	20	
Trichlorofluoromethane	50	57.73		115			50	0.00	49.89	50.94	100	102	2	42 - 161	38 - 160	20	
1,2,3-Trichloropropane	50	65.28		131			50	0.00	70.07	68.76	140	138	2	52 - 152	51 - 151	20	
1,2,4-Trimethylbenzene	50	57.2		114			50	0.00	52.08	53.11	104	106	2	59 - 137	41 - 155	20	
1,3,5-Trimethylbenzene	50	55.05		110			50	0.00	49.34	51.04	99	102	3	69 - 135	55 - 150	20	
Vinyl acetate	50	129.3		259 *			50	0.00	123.5	132.4	247 *	265 *	7	21 - 190	10 - 185	20	Q10
Vinyl chloride	50	38.95		78			50	0.00	32.85	34.42	66	69	5	40 - 146	28 - 161	20	
m&p-Xylene	100	98.62		99			100	0.00	91.73	94.39	92	94	3	70 - 129	66 - 132	20	
o-Xylene	50	50.48		101			50	0.00	47.03	48.28	94	97	3	70 - 129	66 - 132	20	

56 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Method: EPA 8270 **Project:** 2066782 **LCS:** 20502806 2/23/2007 12:39:00 PM

Batch: 82377 **MS:** 20503801 2/27/2007 5:02:00 PM

Units: ug/L **Original for MS:** 20503772 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
bis(2-Ethylhexyl)phthalate	50	44.67		89			142.9	3.03	85.34	94.77	58	64	10	30 - 154	16 - 145	20	
4-Nitrophenol	50	40.94		82			142.9	0.00	144.7	157.1	101	110	8	25 - 140	10 - 158	20	
Pentachlorophenol	50	43.85		88			142.9	0.00	114.1	117.8	80	82	3	32 - 133	24 - 147	20	

3 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Report of Batch Surrogate Recovery

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Report: 2066782 **Batch: 82366**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20501730	Sample S1	150 *	120	92					
20501731	Sample D2,S	144 *	121	94					
20501732	Sample S1	150 *	117	94					
20501733	Sample S1	150 *	113	94					
20501902	BLANK S1	146 *	125 *	93					
20501903	LCS	126	110	98					
20501906	MS	123	114	93					
20501907	MSD	122	116	95					
20502544	BLANK	110	119	97					
20502545	LCS	113	112	95					
QC limits:		71-129	68-124	74-122					

Sur 1: 4-Bromofluorobenzene (S)
Sur 2: Dibromofluoromethane (S)
Sur 3: Toluene-d8 (S)

*** denotes surrogate recovery outside of QC limits.**
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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LELAP # 02006

Report: 2066782 **Batch: 82377**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20501730	Sample	66	74	57	75	58	60		
20501731	Sample	46	65	57	78	65	45		
20501732	Sample	62	67	58	73	65	67		
20501959	BLANK	44	47	41	46	46	53		
20501960	LCS	61	62	54	63	60	68		
20502431	BLANK	43	48	41	46	46	53		
20502432	LCS	60	63	52	63	58	68		
20502805	BLANK	73	103	82	94	82	78		
20502806	LCS	108	97	89	79	101	91		
20503799	BLANK	71	66	64	73	55	68		
20503800	LCS	69	67	68	62	71	54		
20503801	MS	80	76	66	76	69	62		
20503802	MSD	83	77	68	79	64	54		
QC limits:		25-133	36-108	10-109	21-120	15-113	17-130		

Sur 1: 2,4,6-Tribromophenol (S)
Sur 2: 2-Fluorobiphenyl (S)
Sur 3: 2-Fluorophenol (S)
Sur 4: Nitrobenzene-d5 (S)
Sur 5: Phenol-d5 (S)
Sur 6: Terphenyl-d14 (S)

*** denotes surrogate recovery outside of QC limits.**
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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Report of Method Blank

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20501902

Description: 8260 VOAs Full List Water BLK **Project No.:** 2066782

Method: EPA 8260 **Batch:** 82366 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 15-Feb-07 **Analyzed:** 02/15/07 18:05 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
67-64-1	Acetone	1	ND	A11	10.0
75-05-8	Acetonitrile	1	ND		100.
107-02-8	Acrolein	1	ND		20.0
107-13-1	Acrylonitrile	1	ND		20.0
107-05-1	Allyl chloride	1	ND		10.0
71-43-2	Benzene	1	ND		5.00
74-97-5	Bromochloromethane	1	ND		5.00
75-27-4	Bromodichloromethane	1	ND		5.00
75-25-2	Bromoform	1	ND		5.00
74-83-9	Bromomethane	1	ND		5.00
78-93-3	2-Butanone (MEK)	1	ND	A11	10.0
104-51-8	n-Butylbenzene	1	ND		5.00
135-98-8	sec-Butylbenzene	1	ND		5.00
98-06-6	tert-Butylbenzene	1	ND		5.00
75-15-0	Carbon disulfide	1	ND		5.00
56-23-5	Carbon tetrachloride	1	ND		5.00
108-90-7	Chlorobenzene	1	ND		5.00
75-00-3	Chloroethane	1	ND		5.00
110-75-8	2-Chloroethylvinyl ether	1	ND		20.0
67-66-3	Chloroform	1	ND		5.00
74-87-3	Chloromethane	1	ND		5.00
126-99-8	Chloroprene	1	ND		5.00
95-49-8	2-Chlorotoluene	1	ND		5.00
106-43-4	4-Chlorotoluene	1	ND		5.00
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.00
124-48-1	Dibromochloromethane	1	ND		5.00
106-93-4	1,2-Dibromoethane (EDB)	1	ND		5.00
74-95-3	Dibromomethane	1	ND		5.00
95-50-1	1,2-Dichlorobenzene	1	ND		5.00
541-73-1	1,3-Dichlorobenzene	1	ND		5.00
106-46-7	1,4-Dichlorobenzene	1	ND		5.00
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		5.00
75-71-8	Dichlorodifluoromethane	1	ND		5.00
75-34-3	1,1-Dichloroethane	1	ND		5.00
107-06-2	1,2-Dichloroethane	1	ND		5.00
75-35-4	1,1-Dichloroethene	1	ND		5.00

3/7/2007 15:59:09

ND denotes Not Detected at or above the reporting limit.
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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20501902

Description: 8260 VOAs Full List Water BLK **Project No.:** 2066782

Method: EPA 8260 **Batch:** 82366 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 15-Feb-07 **Analyzed:** 02/15/07 18:05 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
156-59-2	cis-1,2-Dichloroethene	1	ND		5.00
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00
78-87-5	1,2-Dichloropropane	1	ND		5.00
142-28-9	1,3-Dichloropropane	1	ND		5.00
594-20-7	2,2-Dichloropropane	1	ND		5.00
563-58-6	1,1-Dichloropropene	1	ND		5.00
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		250.
100-41-4	Ethylbenzene	1	ND		5.00
97-63-2	Ethyl methacrylate	1	ND		10.0
591-78-6	2-Hexanone	1	ND		10.0
74-88-4	Iodomethane	1	ND		5.00
78-83-1	Isobutanol	1	ND		250.
98-82-8	Isopropylbenzene (Cumene)	1	ND		5.00
99-87-6	p-Isopropyltoluene	1	ND		5.00
126-98-7	Methacrylonitrile	1	ND		100.
79-20-9	Methyl acetate	1	ND		10.0
75-09-2	Methylene chloride	1	ND	A11	5.00
80-62-6	Methyl methacrylate	1	ND		10.0
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0
75-65-0	2-Methyl-2-propanol	1	ND		200.
1634-04-4	Methyl-tert-butyl ether	1	ND		5.00
91-20-3	Naphthalene	1	ND		5.00
107-12-0	Propionitrile	1	ND		20.0
103-65-1	n-Propylbenzene	1	ND		5.00
100-42-5	Styrene	1	ND		5.00
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.00
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00
127-18-4	Tetrachloroethene	1	ND		5.00
108-88-3	Toluene	1	ND		5.00
87-61-6	1,2,3-Trichlorobenzene	1	ND		5.00
120-82-1	1,2,4-Trichlorobenzene	1	ND		5.00
71-55-6	1,1,1-Trichloroethane	1	ND		5.00
79-00-5	1,1,2-Trichloroethane	1	ND		5.00
79-01-6	Trichloroethene	1	ND		5.00

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LELAP # 02006

Lab ID: 20501902

Description: 8260 VOAs Full List Water BLK **Project No.:** 2066782

Method: EPA 8260 **Batch:** 82366 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 15-Feb-07 **Analyzed:** 02/15/07 18:05 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
75-69-4	Trichlorofluoromethane	1	ND		5.00
96-18-4	1,2,3-Trichloropropane	1	ND		5.00
526-73-8	1,2,3-Trimethylbenzene	1	ND		5.00
95-63-6	1,2,4-Trimethylbenzene	1	ND		5.00
108-67-8	1,3,5-Trimethylbenzene	1	ND		5.00
108-05-4	Vinyl acetate	1	ND		10.0
75-01-4	Vinyl chloride	1	ND		5.00
	m&p-Xylene	1	ND		5.00
95-47-6	o-Xylene	1	ND		5.00

81 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
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Phone: 504.469.0333
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LELAP # 02006

Lab ID: 20502805
Description: 8270 SVOAs Water **Project No.:** 2066782
Method: EPA 8270 **Batch:** 82377 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 19-Feb-07 **Analyzed:** 02/23/07 12:11 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
83-32-9	Acenaphthene	1	ND		10.0
208-96-8	Acenaphthylene	1	ND		10.0
98-86-2	Acetophenone	1	ND		10.0
120-12-7	Anthracene	1	ND		10.0
1912-24-9	Atrazine	1	ND		10.0
56-55-3	Benzo(a)anthracene	1	ND		10.0
205-99-2	Benzo(b)fluoranthene	1	ND		10.0
207-08-9	Benzo(k)fluoranthene	1	ND		10.0
191-24-2	Benzo(g,h,i)perylene	1	ND		10.0
50-32-8	Benzo(a)pyrene	1	ND		10.0
95-57-8	2-Chlorophenol	1	ND		10.0
218-01-9	Chrysene	1	ND		10.0
21725-46-2	Cyanazine	1	ND		10.0
53-70-3	Dibenz(a,h)anthracene	1	ND		10.0
132-64-9	Dibenzofuran	1	ND		10.0
120-83-2	2,4-Dichlorophenol	1	ND		10.0
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		10.0
206-44-0	Fluoranthene	1	ND		10.0
86-73-7	Fluorene	1	ND		10.0
193-39-5	Indeno(1,2,3-cd)pyrene	1	ND		10.0
91-57-6	2-Methylnaphthalene	1	ND		10.0
95-48-7	2-Methylphenol (o-Cresol)	1	ND		10.0
108-39-4	3-Methylphenol (m-Cresol)	1	ND	A7	10.0
106-44-5	4-Methylphenol (p-Cresol)	1	ND	A7	10.0
91-20-3	Naphthalene	1	ND		10.0
100-02-7	4-Nitrophenol	1	ND		10.0
87-86-5	Pentachlorophenol	1	ND		10.0
85-01-8	Phenanthrene	1	ND		10.0
129-00-0	Pyrene	1	ND		10.0
95-95-4	2,4,5-Trichlorophenol	1	ND		10.0
88-06-2	2,4,6-Trichlorophenol	1	ND		10.0

31 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
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LELAP # 02006

Method: EPA 8151 **Project:** 2066782 **LCS:** 20502804 2/28/2007 1:12:00 AM

Batch: 82528 **MS:** 20503327 3/2/2007 4:12:00 PM

Units: ug/L **Original for MS:** 20503122 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Dinoseb	5	1.222		24			5	0.02	13.94	3.696	278 *	74	116 *	10 - 146	10 - 151	20	

1 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Report of Batch Surrogate Recovery

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Report: 2066782 **Batch: 82271**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20501438	BLANK	64	65	58	57				
20501439	LCS	62	62	59	60				
20501440	MS	70	70	67	76				
20501441	MSD	82	81	64	66				
20501730	Sample	48	46	47	45				
20501731	Sample	15	11	29	9 *				
20501732	Sample G1	165 *	149	143	131				
20502809	BLANK	55	56	57	54				
20502810	LCS	59	61	56	53				
	QC limits:	10-157	10-157	18-171	18-171				

Sur 1: Decachlorobiphenyl (Conf)(S)
Sur 2: Decachlorobiphenyl (S)
Sur 3: Tetrachloro-m-xylene (Conf)(S)
Sur 4: Tetrachloro-m-xylene (S)

*** denotes surrogate recovery outside of QC limits.**
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

3/7/2007 15:59:16

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Report of Batch Surrogate Recovery

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Phone: 504.469.0333
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LELAP # 02006

Report: 2066782 **Batch: 82528**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20501730	Sample	89	178						
20501731	Sample D1	0 D	0 D						
20501732	Sample	98	123						
20502803	BLANK	98	127						
20502804	LCS	70	59						
20502974	BLANK	96	98						
20502975	LCS	109	119						
20503122	OQS	97	92						
20503149	BLANK	122	118						
20503150	LCS	125	124						
20503327	MS	125	122						
20503328	MSD	114	110						
QC limits:		10-181	10-181						

Sur 1: 2,4-DCPA (Conf)(S)
Sur 2: 2,4-DCPA (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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Phone: 504.469.0333
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LELAP # 02006

Lab ID: 20502803
Description: 8151 Herbs Water **Project No.:** 2066782
Method: EPA 8151 **Batch:** 82528 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 19-Feb-07 **Analyzed:** 02/28/07 00:45 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
94-75-7	2,4-D	1	ND		2.00
127-20-8	Dalapon	1	ND		10.0
94-82-6	2,4-DB	1	ND		5.00
1918-00-9	Dicamba	1	ND		0.500
120-36-5	Dichloroprop	1	ND		2.00
88-85-7	Dinoseb	1	ND		2.00
94-74-6	MCPA	1	ND		250.
7085-19-0	MCPP	1	ND		250.
93-76-5	2,4,5-T	1	ND		0.500
93-72-1	2,4,5-TP (Silvex)	1	ND		0.500

10 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
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Phone: 504.469.0333
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LELAP # 02006

Lab ID: 20502809

Description: 8081 Pests Water **Project No.:** 2066782

Method: EPA 8081 **Batch:** 82271 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 19-Feb-07 **Analyzed:** 03/05/07 17:59 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
8001-35-2	Toxaphene	1	ND		2.00

1 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
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Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Phone: 504.469.0333
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Project: 2066782

Parameter	Batch	Blank	ARL	Units	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	RPD Max	Qu
Arsenic, Disso	82499	ND	10.0	ug/L	1000	96			1000	89	89	0		72 - 116	60 - 123	20	
Arsenic	82574	ND	10.0	ug/L	1000	99			1000	98	104	6		79 - 122	68 - 130	20	

3/7/2007 15:59:22

ARL denotes Adjusted Reporting Limit , corrected for sample size, dilution and moisture content as applicable.
* denotes recovery outside of QC limits.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Fax: 504.469.0555
LELAP # 02006

Project: 2066782

Analyte Qualifiers

Qualifier	Qualifier Description
A7	3-Methylphenol and 4-methylphenol coelute under the conditions used for analysis, therefore the precise isomer in the sample cannot be determined. The sample concentration is arbitrarily reported as 4-methylphenol.
A11	This analyte is a common solvent. Its presence in field samples may be an artifact of sample collection, transport, laboratory storage or analysis.
G1	Interferences are present which caused poor surrogate recovery.
J	This estimated value for the analyte is below the adjusted reporting limit but above the instrument reporting limit.

General Qualifiers

Qualifier	Qualifier Description
D1	The analysis was performed at a dilution due to the high analyte concentration.
D2	The analysis was performed at a dilution due to the presence of matrix interferences.

QC Qualifiers

Qualifier	Qualifier Description
Q10	The spike recovery was above the laboratory QC limits, however, the data are reported without qualification since the target analyte was not detected in the corresponding samples.
S1	The surrogate recovery was above the QC limit. The data are reported without qualification since the associated target analytes were not detected in the sample.

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ARCADIS

Laboratory Task Order No./P.O. No. _____ **CHAIN-OF-CUSTODY RECORD** Page 1 of 1

Project Number/Name Miss Bluffs / LA002058.0001.00015

Project Location Vicksburg, MS

Laboratory PACE

Project Manager Rob Brown

Sampler(s)/Affiliation K. Montgomery / G. Cook (ARCADIS)

206782

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	VOCs (8330) (App. IX) 4°C HCl	40ml glass vials 4°C	SVOCs (8270) Amber glass 4°C	0-Pesticides (8081) 1-Liter amber glass 4°C	0-Herbicides (8151) 1-Liter amber glass 4°C	T-Metals 250 ml plastic HNO3	D-Metals 250 ml plastic HNO3 4°C	Remarks	Total
MW-13(021207)	L	2-12-07 0945		3	3	2	2	1	—		HOT ? 2050 1730	11
MW-12C(021207)	L	1055		3	3	2	2	1	1		HOT ? 731	12
MW-12(021207)	L	1155		3	3	2	2	1	1		HOT ? 732	12
TB-06(021207)	L	2-12-07		2							733	2

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers 37

Relinquished by:	Organization: Arcadis	Date 2/12/07	Time 1604	Seal Intact?	
Received by:	Organization: Arcadis	Date 2/12/07	Time 1604	Yes No N/A	
Relinquished by:	Organization: Arcadis	Date 2/13/07	Time 1135	Seal Intact?	
Received by:	Organization: PACE	Date 2/13/07	Time 1135 1440	Yes No N/A	

Special Instructions/Remarks: Note: RMD to Total Dissolved Metals

2 coolers 3.4, 2.0, 2.1

Delivery Method: ☐ In Person ☐ Common Carrier _____ SPECIFY ☒ Lab Courier ☐ Other _____ SPECIFY

AG 05-12-01

ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name MISS BLUFFS / LA002656.0001.00013

Project Location Vicksburg, MS

Laboratory PACE

Project Manager CRAIG DERDUN

Sampler(s)/Affiliation K. Montgomery / C. Cook (ARCADIS)

2066782

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	VOCs (8260) App IX 40ml glass vials HCl 4°C	SVOCs (8270) 1 Lit. amber glass 4°C	O-pesticides (8081) 1 Lit. amber glass 4°C	O-Herbicides (8151) 1 Lit. amber glass 4°C	T. Metals 250 ml plastic HNO3 4°C	D. Metals 250 ml plastic HNO3 4°C	Remarks	Total
MW-13(021207)	L	2-12-07 0945		3	3	2	2	1	—	HOT? 2050 1730	11
MW-12C(021207)	L	1055		3	3	2	2	1	1	HOT? 731	12
MW-12(021207)	L	1155		3	3	2	2	1	1	HOT? 732	12
TB-06(021207)	L	2-12-07		2						733	2

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers 37

Relinquished by: K. Montgomery	Organization: Arcadis	Date 2/12/07	Time 1604	Seal Intact?	
Received by: C. Cook	Organization: Arcadis	Date 2/12/07	Time 1604	Yes No N/A	
Relinquished by: C. Cook	Organization: Arcadis	Date 2/13/07	Time 1135	Seal Intact?	
Received by: Rachel Quinlan Pace	Organization: Pace	Date 2/13/07 2/13/07	Time 1135 1440	Yes No N/A	

Special Instructions/Remarks: Note: RMD to filter Dissolved Metals

2 coolers 3.4, 2.0, 2.1

Delivery Method: ☐ In Person ☐ Common Carrier _____ SPECIFY ☒ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

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LELAP # 02006

March 21, 2007

Craig Derouen
Arcadis Geraghty & Miller
10352 Plaza Americana Drive
Baton Rouge, LA 70816

RE: Project: 2066873
RE: Project ID: MS BLUFFS/LA002656.0001 & 12

Dear Craig Derouen:

Enclosed are the analytical results for sample(s) received by the laboratory on February 15, 2007. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Cindy Olavesen

Cindy Olavesen

ACCREDITED IN ACCORDANCE WITH nelac

REPORT OF LABORATORY ANALYSIS

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Report of Laboratory Analysis

Project Number: 2066873

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Sample Cross Reference Report

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.0001 & 12

Project No.: 2066873

Sample ID	Lab ID	Matrix	Collection Date/Time		Received Date/Time	
GP-SB-01 (0-2)	20502312	Soil	02/13/2007	09:15	02/15/2007	10:00
GP-SB-01 (2-4)	20502313	Soil	02/13/2007	09:25	02/15/2007	10:00
GP-SB-02 (0-2)	20502314	Soil	02/13/2007	09:40	02/15/2007	10:00
GP-SB-02 (2-4)	20502315	Soil	02/13/2007	09:50	02/15/2007	10:00
GP-SB-03 (2-4)	20502316	Soil	02/13/2007	10:20	02/15/2007	10:00
GP-SB-03 (4-6)	20502317	Soil	02/13/2007	10:30	02/15/2007	10:00
GP-SB-04 (2-4)	20502318	Soil	02/13/2007	10:50	02/15/2007	10:00
GP-SB-04 (4-6)	20502319	Soil	02/13/2007	11:00	02/15/2007	10:00
GP-SB-05 (0-2)	20502320	Soil	02/13/2007	11:20	02/15/2007	10:00
GP-SB-05 (2-4)	20502321	Soil	02/13/2007	11:30	02/15/2007	10:00
GP-SB-06 (0-2)	20502322	Soil	02/13/2007	12:00	02/15/2007	10:00
GP-SB-06 (2-4)	20502323	Soil	02/13/2007	12:10	02/15/2007	10:00
GP-SB-07 (0-2)	20502324	Soil	02/13/2007	14:00	02/15/2007	10:00
GP-SB-07 (2-4)	20502325	Soil	02/13/2007	14:10	02/15/2007	10:00
GP-SB-DUP-01	20502329	Soil	02/13/2007		02/15/2007	10:00
GP-SB-08 (0-2)	20502330	Soil	02/13/2007	14:40	02/15/2007	10:00
GP-SB-08 (0-2)MS	20502330	Soil	02/13/2007	14:40	02/15/2007	10:00
GP-SB-08 (0-2)MSD	20502330	Soil	02/13/2007	14:40	02/15/2007	10:00
GP-SB-08 (2-4)	20502331	Soil	02/13/2007	14:50	02/15/2007	10:00
GP-SB-09 (0-2)	20502332	Soil	02/13/2007	15:40	02/15/2007	10:00
GP-SB-09 (2-4)	20502333	Soil	02/13/2007	15:50	02/15/2007	10:00
GP-SB-10 (0-2)	20502334	Soil	02/13/2007	16:10	02/15/2007	10:00
GP-SB-10 (2-4)	20502335	Soil	02/13/2007	16:20	02/15/2007	10:00
GP-SB-10 (2-4)MS	20502335	Soil	02/13/2007	16:20	02/15/2007	10:00
GP-SB-10 (2-4)MSD	20502335	Soil	02/13/2007	16:20	02/15/2007	10:00
GP-SB-11 (0-2)	20502338	Soil	02/14/2007	07:35	02/15/2007	10:00
GP-SB-11 (2-4)	20502343	Soil	02/14/2007	07:45	02/15/2007	10:00
GP-SB-12 (0-2)	20502344	Soil	02/14/2007	08:45	02/15/2007	10:00
GP-SB-12 (2-4)	20502383	Soil	02/14/2007	08:55	02/15/2007	10:00
GP-SB-13 (0-2)	20502384	Soil	02/14/2007	09:20	02/15/2007	10:00
GP-SB-13 (2-4)	20502385	Soil	02/14/2007	09:30	02/15/2007	10:00
GP-SB-14 (0-2)	20502386	Soil	02/14/2007	13:15	02/15/2007	10:00
GP-SB-14 (2-4)	20502387	Soil	02/14/2007	13:25	02/15/2007	10:00

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Sample Cross Reference Report

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.0001 & 12

Project No.: 2066873

Sample ID	Lab ID	Matrix	Collection Date/Time		Received Date/Time	
GP-SB-15 (0-2)	20502388	Soil	02/14/2007	14:05	02/15/2007	10:00
GP-SB-15 (2-4)	20502389	Soil	02/14/2007	14:20	02/15/2007	10:00
GP-SB-DUP-02	20502390	Soil	02/14/2007		02/15/2007	10:00
GP-SB-16 (0-2)	20502391	Soil	02/14/2007	14:48	02/15/2007	10:00
GP-SB-16 (0-2)MS	20502391	Soil	02/14/2007	14:48	02/15/2007	10:00
GP-SB-16 (0-2)MSD	20502391	Soil	02/14/2007	14:48	02/15/2007	10:00
GP-SB-16 (2-4)	20502392	Soil	02/14/2007	15:08	02/15/2007	10:00
TB-GP-SB-01	20502393	Water	02/14/2007		02/15/2007	10:00
TB-GP-SB-02	20502394	Water	02/14/2007		02/15/2007	10:00
GP-SB-FB-01	20502395	Water	02/13/2007	16:10	02/15/2007	10:00
GP-SB-FB-02	20502396	Water	02/14/2007	10:00	02/15/2007	10:00
GP-SB-RB-01	20502397	Water	02/13/2007	17:00	02/15/2007	10:00
GP-SB-RB-02	20502398	Water	02/14/2007	14:10	02/15/2007	10:00

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Project: **2066873**

Narrative detail for GC semi-volatilves analyses:

Dinoseb is a poor performer; QC recovery data may be poor or erratic as demonstrated by performance-based statistical evaluation.

Herbicide batch 82734: The closing calibration verfication standard was high biased for dinoseb; there were no hits for this analyte in the associated data..

Herbicide batch 82795: The closing calibration verfication standard was high biased for dinoseb; there were no hits for this analyte in the associated data..

Herbicide batch 82795: Dinoseb recovery was low in LCS; matrix spike recoveries were acceptable.

Samples 20502323, 20502334, 20502338, and 20502385 were re-extracted due to low surrogate recoveries. Re-extractions were performed outside the holding time limits.

Surrogate recoveries for 20502323, 20502334, and 20502338 were similar, indicating a matrix effect. All runs were included in the report.

Narrative detail for GC/MS semi-volatilves analyses:

Sample 20502391 was apparently not spiked with surrogate solution. The sample (and QC) was re-extracted, outside the holding time limit.

Both sets of results were included in the report.

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Project Narrative

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Phone: 504.469.0333
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Project: **2066873**

Sample Receipt Condition:

All samples were received in accordance with EPA protocol.

Holding Times:

All holding times were met.

Blanks:

All blank results were below reporting limits.

Laboratory Control Samples:

LCS recoveries outside of QC limits are qualified in the Report of Quality Control section.

Matrix Spikes and Duplicates:

MS or MSD recoveries outside of QC limits are qualified in the Report of Quality Control section.

Surrogates:

Surrogate recoveries outside of QC limits are qualified in the surrogate results section.

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Project: 2066873

Analytical Method	Batch	Sample used for QC
EPA 8081	82271	Client sample PZ-22A (020807) from project 2066695
EPA 8151	82528	Batch sample from another client
EPA 8081	82701	Project sample GP-SB-08 (0-2)
EPA 8151	82734	Project sample GP-SB-08 (0-2)
EPA 8081	82794	Project sample GP-SB-16 (0-2)
EPA 8151	82795	Project sample GP-SB-10 (2-4)
EPA 8151	82846	Project sample GP-SB-16 (0-2)
EPA 8151	83529	Batch sample from another client
EPA 6010	82455	Project sample GP-SB-08 (0-2)
EPA 6010	82456	Project sample GP-SB-16 (0-2)
EPA 6010	82574	Batch sample from another client
EPA 8270	82377	Batch sample from another client
EPA 8270	82568	Batch sample from another client
EPA 8270	82735	Project sample GP-SB-08 (0-2)
EPA 8270	82863	Project sample GP-SB-16 (0-2)
EPA 8270	83084	Project sample GP-SB-16 (0-2)
EPA 8260	82479	Batch sample from another client
EPA 8260	82550	Project sample GP-SB-08 (0-2)
EPA 8260	82551	Project sample GP-SB-16 (0-2)
EPA 5030 Medium Soil	82552	Batch sample from another client
EPA 8260	82609	Client sample GP-SB-21 (0-2) from project 2066924
% Moisture	82531	Project sample GP-SB-08 (0-2)
% Moisture	82532	Project sample GP-SB-02 (0-2)
% Moisture	82661	Project sample GP-SB-16 (0-2)
% Moisture	82661	Client sample GP-SB-21 (0-2) from project 2066924

For the sample used as the original for the DUP or MS/MSD for the batch:

Project sample means a sample from this project was used.
Client sample means a sample from the same client but in a different project was used.
Batch sample means a sample from the a different client was used.

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-01 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502312 **Matrix:** Soil **% Moisture:** 15 Corrected

Description: None **Prep Level:** Soil **Batch:** 82550

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/19/07 **Analyzed:** 02/19/07 13:03 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	17.8	A11	10.1	
75-05-8	Acetonitrile	1	ND		101.	
107-02-8	Acrolein	1	ND		20.1	
107-13-1	Acrylonitrile	1	ND		20.1	
107-05-1	Allyl chloride	1	ND		10.1	
71-43-2	Benzene	1	ND		5.03	
75-27-4	Bromodichloromethane	1	ND		5.03	
75-25-2	Bromoform	1	ND		5.03	
74-83-9	Bromomethane	1	ND		5.03	
78-93-3	2-Butanone (MEK)	1	ND	A11	10.1	
75-15-0	Carbon disulfide	1	ND		5.03	
56-23-5	Carbon tetrachloride	1	ND		5.03	
108-90-7	Chlorobenzene	1	ND		5.03	
75-00-3	Chloroethane	1	ND		5.03	
67-66-3	Chloroform	1	ND		5.03	
74-87-3	Chloromethane	1	ND		5.03	
126-99-8	Chloroprene	1	ND		5.03	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.03	
124-48-1	Dibromochloromethane	1	ND		5.03	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		5.03	
74-95-3	Dibromomethane	1	ND		5.03	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		5.03	
75-71-8	Dichlorodifluoromethane	1	ND		5.03	
75-34-3	1,1-Dichloroethane	1	ND		5.03	
107-06-2	1,2-Dichloroethane	1	ND		5.03	
75-35-4	1,1-Dichloroethene	1	ND		5.03	
156-60-5	trans-1,2-Dichloroethene	1	ND		5.03	
78-87-5	1,2-Dichloropropane	1	ND		5.03	
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.03	
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.03	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		251.	
100-41-4	Ethylbenzene	1	ND		5.03	
97-63-2	Ethyl methacrylate	1	ND		10.1	

3/21/2007 16:45:26

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit denotes an actual regulatory limit or a client-requested notification limit.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-01 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502312 **Matrix:** Soil **% Moisture:** 15 Corrected

Description: None **Prep Level:** Soil **Batch:** 82550

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/19/07 **Analyzed:** 02/19/07 13:03 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		10.1	
74-88-4	Iodomethane	1	ND		5.03	
78-83-1	Isobutanol	1	ND		251.	
126-98-7	Methacrylonitrile	1	ND		101.	
75-09-2	Methylene chloride	1	ND	A11	5.03	
80-62-6	Methyl methacrylate	1	ND		10.1	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.1	
107-12-0	Propionitrile	1	ND		20.1	
100-42-5	Styrene	1	ND		5.03	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.03	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.03	
127-18-4	Tetrachloroethene	1	ND		5.03	
108-88-3	Toluene	1	ND		5.03	
71-55-6	1,1,1-Trichloroethane	1	ND		5.03	
79-00-5	1,1,2-Trichloroethane	1	ND		5.03	
79-01-6	Trichloroethene	1	ND		5.03	
75-69-4	Trichlorofluoromethane	1	ND		5.03	
96-18-4	1,2,3-Trichloropropane	1	ND		5.03	
95-63-6	1,2,4-Trimethylbenzene	1	ND		5.03	
108-67-8	1,3,5-Trimethylbenzene	1	ND		5.03	
108-05-4	Vinyl acetate	1	ND		10.1	
75-01-4	Vinyl chloride	1	ND		5.03	
	m&p-Xylene	1	ND		5.03	
95-47-6	o-Xylene	1	ND		5.03	

57 compound(s) reported

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Regulatory limit denotes an actual regulatory limit or a client-requested notification limit.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Report of Laboratory Analysis

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-01 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502312 **Matrix:** Soil **% Moisture:** 15 Corrected

Description: None **Prep Level:** Soil **Batch:** 82735

Method: 8270 SVOAs Low Soil **Units:** ug/kg **Target List:** 8270_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/27/07 **Analyzed:** 03/08/07 21:40 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		392.	
1912-24-9	Atrazine	1	ND		392.	
21725-46-2	Cyanazine	1	ND		392.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		392.	
100-02-7	4-Nitrophenol	1	ND		392.	
87-86-5	Pentachlorophenol	1	ND		392.	

6 compound(s) reported

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-01 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502313 **Matrix:** Soil **% Moisture:** 16 Corrected

Description: None **Prep Level:** Soil **Batch:** 82550

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/19/07 **Analyzed:** 02/19/07 13:22 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	12.1	A11	9.74	
75-05-8	Acetonitrile	1	ND		97.4	
107-02-8	Acrolein	1	ND		19.5	
107-13-1	Acrylonitrile	1	ND		19.5	
107-05-1	Allyl chloride	1	ND		9.74	
71-43-2	Benzene	1	ND		4.87	
75-27-4	Bromodichloromethane	1	ND		4.87	
75-25-2	Bromoform	1	ND		4.87	
74-83-9	Bromomethane	1	ND		4.87	
78-93-3	2-Butanone (MEK)	1	ND	A11	9.74	
75-15-0	Carbon disulfide	1	ND		4.87	
56-23-5	Carbon tetrachloride	1	ND		4.87	
108-90-7	Chlorobenzene	1	ND		4.87	
75-00-3	Chloroethane	1	ND		4.87	
67-66-3	Chloroform	1	ND		4.87	
74-87-3	Chloromethane	1	ND		4.87	
126-99-8	Chloroprene	1	ND		4.87	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		4.87	
124-48-1	Dibromochloromethane	1	ND		4.87	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		4.87	
74-95-3	Dibromomethane	1	ND		4.87	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		4.87	
75-71-8	Dichlorodifluoromethane	1	ND		4.87	
75-34-3	1,1-Dichloroethane	1	ND		4.87	
107-06-2	1,2-Dichloroethane	1	ND		4.87	
75-35-4	1,1-Dichloroethene	1	ND		4.87	
156-60-5	trans-1,2-Dichloroethene	1	ND		4.87	
78-87-5	1,2-Dichloropropane	1	ND		4.87	
10061-01-5	cis-1,3-Dichloropropene	1	ND		4.87	
10061-02-6	trans-1,3-Dichloropropene	1	ND		4.87	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		243.	
100-41-4	Ethylbenzene	1	ND		4.87	
97-63-2	Ethyl methacrylate	1	ND		9.74	

3/21/2007 16:45:26

ND denotes Not Detected at or above the adjusted reporting limit.
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Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
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Kansas Dept. of Health .Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-01 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502313 **Matrix:** Soil **% Moisture:** 16 Corrected

Description: None **Prep Level:** Soil **Batch:** 82550

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/19/07 **Analyzed:** 02/19/07 13:22 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		9.74	
74-88-4	Iodomethane	1	ND		4.87	
78-83-1	Isobutanol	1	ND		243.	
126-98-7	Methacrylonitrile	1	ND		97.4	
75-09-2	Methylene chloride	1	ND	A11	4.87	
80-62-6	Methyl methacrylate	1	ND		9.74	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		9.74	
107-12-0	Propionitrile	1	ND		19.5	
100-42-5	Styrene	1	ND		4.87	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		4.87	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		4.87	
127-18-4	Tetrachloroethene	1	ND		4.87	
108-88-3	Toluene	1	ND		4.87	
71-55-6	1,1,1-Trichloroethane	1	ND		4.87	
79-00-5	1,1,2-Trichloroethane	1	ND		4.87	
79-01-6	Trichloroethene	1	ND		4.87	
75-69-4	Trichlorofluoromethane	1	ND		4.87	
96-18-4	1,2,3-Trichloropropane	1	ND		4.87	
95-63-6	1,2,4-Trimethylbenzene	1	ND		4.87	
108-67-8	1,3,5-Trimethylbenzene	1	ND		4.87	
108-05-4	Vinyl acetate	1	ND		9.74	
75-01-4	Vinyl chloride	1	ND		4.87	
	m&p-Xylene	1	ND		4.87	
95-47-6	o-Xylene	1	ND		4.87	

57 compound(s) reported

3/21/2007 16:45:26

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-01 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502313 **Matrix:** Soil **% Moisture:** 16 Corrected

Description: None **Prep Level:** Soil **Batch:** 82735

Method: 8270 SVOAs Low Soil **Units:** ug/kg **Target List:** 8270_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/27/07 **Analyzed:** 03/08/07 17:46 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		396.	
1912-24-9	Atrazine	1	ND		396.	
21725-46-2	Cyanazine	1	ND		396.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		396.	
100-02-7	4-Nitrophenol	1	ND		396.	
87-86-5	Pentachlorophenol	1	ND		396.	

6 compound(s) reported

3/21/2007 16:45:26

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-02 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502314 **Matrix:** Soil **% Moisture:** 12 Corrected

Description: None **Prep Level:** Soil **Batch:** 82550

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/19/07 **Analyzed:** 02/19/07 13:41 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	30.8	A11	9.04	
75-05-8	Acetonitrile	1	ND		90.4	
107-02-8	Acrolein	1	ND		18.1	
107-13-1	Acrylonitrile	1	ND		18.1	
107-05-1	Allyl chloride	1	ND		9.04	
71-43-2	Benzene	1	ND		4.52	
75-27-4	Bromodichloromethane	1	ND		4.52	
75-25-2	Bromoform	1	ND		4.52	
74-83-9	Bromomethane	1	ND		4.52	
78-93-3	2-Butanone (MEK)	1	ND	A11	9.04	
75-15-0	Carbon disulfide	1	ND		4.52	
56-23-5	Carbon tetrachloride	1	ND		4.52	
108-90-7	Chlorobenzene	1	ND		4.52	
75-00-3	Chloroethane	1	ND		4.52	
67-66-3	Chloroform	1	ND		4.52	
74-87-3	Chloromethane	1	ND		4.52	
126-99-8	Chloroprene	1	ND		4.52	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		4.52	
124-48-1	Dibromochloromethane	1	ND		4.52	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		4.52	
74-95-3	Dibromomethane	1	ND		4.52	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		4.52	
75-71-8	Dichlorodifluoromethane	1	ND		4.52	
75-34-3	1,1-Dichloroethane	1	ND		4.52	
107-06-2	1,2-Dichloroethane	1	ND		4.52	
75-35-4	1,1-Dichloroethene	1	ND		4.52	
156-60-5	trans-1,2-Dichloroethene	1	ND		4.52	
78-87-5	1,2-Dichloropropane	1	ND		4.52	
10061-01-5	cis-1,3-Dichloropropene	1	ND		4.52	
10061-02-6	trans-1,3-Dichloropropene	1	ND		4.52	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		226.	
100-41-4	Ethylbenzene	1	ND		4.52	
97-63-2	Ethyl methacrylate	1	ND		9.04	

3/21/2007 16:45:27

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-02 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502314 **Matrix:** Soil **% Moisture:** 12 Corrected

Description: None **Prep Level:** Soil **Batch:** 82550

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/19/07 **Analyzed:** 02/19/07 13:41 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		9.04	
74-88-4	Iodomethane	1	ND		4.52	
78-83-1	Isobutanol	1	ND		226.	
126-98-7	Methacrylonitrile	1	ND		90.4	
75-09-2	Methylene chloride	1	ND	A11	4.52	
80-62-6	Methyl methacrylate	1	ND		9.04	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		9.04	
107-12-0	Propionitrile	1	ND		18.1	
100-42-5	Styrene	1	ND		4.52	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		4.52	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		4.52	
127-18-4	Tetrachloroethene	1	ND		4.52	
108-88-3	Toluene	1	ND		4.52	
71-55-6	1,1,1-Trichloroethane	1	ND		4.52	
79-00-5	1,1,2-Trichloroethane	1	ND		4.52	
79-01-6	Trichloroethene	1	ND		4.52	
75-69-4	Trichlorofluoromethane	1	ND		4.52	
96-18-4	1,2,3-Trichloropropane	1	ND		4.52	
95-63-6	1,2,4-Trimethylbenzene	1	ND		4.52	
108-67-8	1,3,5-Trimethylbenzene	1	ND		4.52	
108-05-4	Vinyl acetate	1	ND		9.04	
75-01-4	Vinyl chloride	1	ND		4.52	
	m&p-Xylene	1	ND		4.52	
95-47-6	o-Xylene	1	ND		4.52	

57 compound(s) reported

3/21/2007 16:45:27

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-02 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502314 **Matrix:** Soil **% Moisture:** 12 Corrected

Description: None **Prep Level:** Soil **Batch:** 82735

Method: 8270 SVOAs Low Soil **Units:** ug/kg **Target List:** 8270_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/27/07 **Analyzed:** 03/08/07 23:08 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		378.	
1912-24-9	Atrazine	1	ND		378.	
21725-46-2	Cyanazine	1	ND		378.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		378.	
100-02-7	4-Nitrophenol	1	ND		378.	
87-86-5	Pentachlorophenol	1	ND		378.	

6 compound(s) reported

3/21/2007 16:45:27

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-02 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502315 **Matrix:** Soil **% Moisture:** 18.8 Corrected

Description: None **Prep Level:** Soil **Batch:** 82550

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/19/07 **Analyzed:** 02/19/07 14:00 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	27.4	A11	10.4	
75-05-8	Acetonitrile	1	ND		104.	
107-02-8	Acrolein	1	ND		20.7	
107-13-1	Acrylonitrile	1	ND		20.7	
107-05-1	Allyl chloride	1	ND		10.4	
71-43-2	Benzene	1	ND		5.18	
75-27-4	Bromodichloromethane	1	ND		5.18	
75-25-2	Bromoform	1	ND		5.18	
74-83-9	Bromomethane	1	ND		5.18	
78-93-3	2-Butanone (MEK)	1	ND	A11	10.4	
75-15-0	Carbon disulfide	1	ND		5.18	
56-23-5	Carbon tetrachloride	1	ND		5.18	
108-90-7	Chlorobenzene	1	ND		5.18	
75-00-3	Chloroethane	1	ND		5.18	
67-66-3	Chloroform	1	ND		5.18	
74-87-3	Chloromethane	1	ND		5.18	
126-99-8	Chloroprene	1	ND		5.18	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.18	
124-48-1	Dibromochloromethane	1	ND		5.18	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		5.18	
74-95-3	Dibromomethane	1	ND		5.18	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		5.18	
75-71-8	Dichlorodifluoromethane	1	ND		5.18	
75-34-3	1,1-Dichloroethane	1	ND		5.18	
107-06-2	1,2-Dichloroethane	1	ND		5.18	
75-35-4	1,1-Dichloroethene	1	ND		5.18	
156-60-5	trans-1,2-Dichloroethene	1	ND		5.18	
78-87-5	1,2-Dichloropropane	1	ND		5.18	
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.18	
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.18	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		259.	
100-41-4	Ethylbenzene	1	ND		5.18	
97-63-2	Ethyl methacrylate	1	ND		10.4	

3/21/2007 16:45:27

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-02 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502315 **Matrix:** Soil **% Moisture:** 18.8 Corrected

Description: None **Prep Level:** Soil **Batch:** 82550

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/19/07 **Analyzed:** 02/19/07 14:00 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		10.4	
74-88-4	Iodomethane	1	ND		5.18	
78-83-1	Isobutanol	1	ND		259.	
126-98-7	Methacrylonitrile	1	ND		104.	
75-09-2	Methylene chloride	1	ND	A11	5.18	
80-62-6	Methyl methacrylate	1	ND		10.4	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.4	
107-12-0	Propionitrile	1	ND		20.7	
100-42-5	Styrene	1	ND		5.18	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.18	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.18	
127-18-4	Tetrachloroethene	1	ND		5.18	
108-88-3	Toluene	1	5.55		5.18	
71-55-6	1,1,1-Trichloroethane	1	ND		5.18	
79-00-5	1,1,2-Trichloroethane	1	ND		5.18	
79-01-6	Trichloroethene	1	ND		5.18	
75-69-4	Trichlorofluoromethane	1	ND		5.18	
96-18-4	1,2,3-Trichloropropane	1	ND		5.18	
95-63-6	1,2,4-Trimethylbenzene	1	ND		5.18	
108-67-8	1,3,5-Trimethylbenzene	1	ND		5.18	
108-05-4	Vinyl acetate	1	ND		10.4	
75-01-4	Vinyl chloride	1	ND		5.18	
	m&p-Xylene	1	ND		5.18	
95-47-6	o-Xylene	1	ND		5.18	

57 compound(s) reported

3/21/2007 16:45:27

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-02 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502315 **Matrix:** Soil **% Moisture:** 18.8 Corrected

Description: None **Prep Level:** Soil **Batch:** 82735

Method: 8270 SVOAs Low Soil **Units:** ug/kg **Target List:** 8270_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/27/07 **Analyzed:** 03/08/07 22:38 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		410.	
1912-24-9	Atrazine	1	ND		410.	
21725-46-2	Cyanazine	1	ND		410.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		410.	
100-02-7	4-Nitrophenol	1	ND		410.	
87-86-5	Pentachlorophenol	1	ND		410.	

6 compound(s) reported

3/21/2007 16:45:27

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-03 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502316 **Matrix:** Soil **% Moisture:** 12.9 Corrected

Description: None **Prep Level:** Soil **Batch:** 82550

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/19/07 **Analyzed:** 02/19/07 14:19 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	9.95	
75-05-8	Acetonitrile	1	ND		99.5	
107-02-8	Acrolein	1	ND		19.9	
107-13-1	Acrylonitrile	1	ND		19.9	
107-05-1	Allyl chloride	1	ND		9.95	
71-43-2	Benzene	1	ND		4.98	
75-27-4	Bromodichloromethane	1	ND		4.98	
75-25-2	Bromoform	1	ND		4.98	
74-83-9	Bromomethane	1	ND		4.98	
78-93-3	2-Butanone (MEK)	1	ND	A11	9.95	
75-15-0	Carbon disulfide	1	ND		4.98	
56-23-5	Carbon tetrachloride	1	ND		4.98	
108-90-7	Chlorobenzene	1	ND		4.98	
75-00-3	Chloroethane	1	ND		4.98	
67-66-3	Chloroform	1	ND		4.98	
74-87-3	Chloromethane	1	ND		4.98	
126-99-8	Chloroprene	1	ND		4.98	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		4.98	
124-48-1	Dibromochloromethane	1	ND		4.98	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		4.98	
74-95-3	Dibromomethane	1	ND		4.98	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		4.98	
75-71-8	Dichlorodifluoromethane	1	ND		4.98	
75-34-3	1,1-Dichloroethane	1	ND		4.98	
107-06-2	1,2-Dichloroethane	1	ND		4.98	
75-35-4	1,1-Dichloroethene	1	ND		4.98	
156-60-5	trans-1,2-Dichloroethene	1	ND		4.98	
78-87-5	1,2-Dichloropropane	1	ND		4.98	
10061-01-5	cis-1,3-Dichloropropene	1	ND		4.98	
10061-02-6	trans-1,3-Dichloropropene	1	ND		4.98	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		249.	
100-41-4	Ethylbenzene	1	ND		4.98	
97-63-2	Ethyl methacrylate	1	ND		9.95	

3/21/2007 16:45:27

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-03 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502316 **Matrix:** Soil **% Moisture:** 12.9 Corrected

Description: None **Prep Level:** Soil **Batch:** 82550

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/19/07 **Analyzed:** 02/19/07 14:19 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		9.95	
74-88-4	Iodomethane	1	ND		4.98	
78-83-1	Isobutanol	1	ND		249.	
126-98-7	Methacrylonitrile	1	ND		99.5	
75-09-2	Methylene chloride	1	ND	A11	4.98	
80-62-6	Methyl methacrylate	1	ND		9.95	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		9.95	
107-12-0	Propionitrile	1	ND		19.9	
100-42-5	Styrene	1	ND		4.98	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		4.98	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		4.98	
127-18-4	Tetrachloroethene	1	ND		4.98	
108-88-3	Toluene	1	5.55		4.98	
71-55-6	1,1,1-Trichloroethane	1	ND		4.98	
79-00-5	1,1,2-Trichloroethane	1	ND		4.98	
79-01-6	Trichloroethene	1	ND		4.98	
75-69-4	Trichlorofluoromethane	1	ND		4.98	
96-18-4	1,2,3-Trichloropropane	1	ND		4.98	
95-63-6	1,2,4-Trimethylbenzene	1	ND		4.98	
108-67-8	1,3,5-Trimethylbenzene	1	ND		4.98	
108-05-4	Vinyl acetate	1	ND		9.95	
75-01-4	Vinyl chloride	1	ND		4.98	
	m&p-Xylene	1	ND		4.98	
95-47-6	o-Xylene	1	ND		4.98	

57 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-03 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502316 **Matrix:** Soil **% Moisture:** 12.9 Corrected

Description: None **Prep Level:** Soil **Batch:** 82735

Method: 8270 SVOAs Low Soil **Units:** ug/kg **Target List:** 8270_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/27/07 **Analyzed:** 03/08/07 23:37 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		382.	
1912-24-9	Atrazine	1	ND		382.	
21725-46-2	Cyanazine	1	ND		382.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		382.	
100-02-7	4-Nitrophenol	1	ND		382.	
87-86-5	Pentachlorophenol	1	ND		382.	

6 compound(s) reported

3/21/2007 16:45:28

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-03 (4-6) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502317 **Matrix:** Soil **% Moisture:** 19.7 Corrected

Description: None **Prep Level:** Soil **Batch:** 82609

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/23/07 **Analyzed:** 02/23/07 18:37 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	9.80	
75-05-8	Acetonitrile	1	ND		98.0	
107-02-8	Acrolein	1	ND		19.6	
107-13-1	Acrylonitrile	1	ND		19.6	
107-05-1	Allyl chloride	1	ND		9.80	
71-43-2	Benzene	1	ND		4.90	
75-27-4	Bromodichloromethane	1	ND		4.90	
75-25-2	Bromoform	1	ND		4.90	
74-83-9	Bromomethane	1	ND		4.90	
78-93-3	2-Butanone (MEK)	1	ND	A11	9.80	
75-15-0	Carbon disulfide	1	ND		4.90	
56-23-5	Carbon tetrachloride	1	ND		4.90	
108-90-7	Chlorobenzene	1	ND		4.90	
75-00-3	Chloroethane	1	4.99		4.90	
67-66-3	Chloroform	1	ND		4.90	
74-87-3	Chloromethane	1	ND		4.90	
126-99-8	Chloroprene	1	ND		4.90	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		4.90	
124-48-1	Dibromochloromethane	1	ND		4.90	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		4.90	
74-95-3	Dibromomethane	1	ND		4.90	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		4.90	
75-71-8	Dichlorodifluoromethane	1	ND		4.90	
75-34-3	1,1-Dichloroethane	1	ND		4.90	
107-06-2	1,2-Dichloroethane	1	ND		4.90	
75-35-4	1,1-Dichloroethene	1	ND		4.90	
156-60-5	trans-1,2-Dichloroethene	1	ND		4.90	
78-87-5	1,2-Dichloropropane	1	ND		4.90	
10061-01-5	cis-1,3-Dichloropropene	1	ND		4.90	
10061-02-6	trans-1,3-Dichloropropene	1	ND		4.90	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		245.	
100-41-4	Ethylbenzene	1	ND		4.90	
97-63-2	Ethyl methacrylate	1	ND		9.80	

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-03 (4-6) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502317 **Matrix:** Soil **% Moisture:** 19.7 Corrected

Description: None **Prep Level:** Soil **Batch:** 82609

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/23/07 **Analyzed:** 02/23/07 18:37 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		9.80	
74-88-4	Iodomethane	1	ND		4.90	
78-83-1	Isobutanol	1	ND		245.	
126-98-7	Methacrylonitrile	1	ND		98.0	
75-09-2	Methylene chloride	1	ND	A11	4.90	
80-62-6	Methyl methacrylate	1	ND		9.80	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		9.80	
107-12-0	Propionitrile	1	ND		19.6	
100-42-5	Styrene	1	ND		4.90	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		4.90	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		4.90	
127-18-4	Tetrachloroethene	1	ND		4.90	
108-88-3	Toluene	1	ND		4.90	
71-55-6	1,1,1-Trichloroethane	1	ND		4.90	
79-00-5	1,1,2-Trichloroethane	1	ND		4.90	
79-01-6	Trichloroethene	1	225.		4.90	
75-69-4	Trichlorofluoromethane	1	ND		4.90	
96-18-4	1,2,3-Trichloropropane	1	ND		4.90	
95-63-6	1,2,4-Trimethylbenzene	1	ND		4.90	
108-67-8	1,3,5-Trimethylbenzene	1	ND		4.90	
108-05-4	Vinyl acetate	1	ND		9.80	
75-01-4	Vinyl chloride	1	118.		4.90	
	m&p-Xylene	1	ND		4.90	
95-47-6	o-Xylene	1	ND		4.90	

57 compound(s) reported

3/21/2007 16:45:28

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-03 (4-6) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502317 **Matrix:** Soil **% Moisture:** 19.7 Corrected

Description: None **Prep Level:** Soil **Batch:** 82735

Method: 8270 SVOAs Low Soil **Units:** ug/kg **Target List:** 8270_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/27/07 **Analyzed:** 03/08/07 22:09 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		415.	
1912-24-9	Atrazine	1	ND		415.	
21725-46-2	Cyanazine	1	ND		415.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		415.	
100-02-7	4-Nitrophenol	1	ND		415.	
87-86-5	Pentachlorophenol	1	ND		415.	

6 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-04 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502318 **Matrix:** Soil **% Moisture:** 18.8 Corrected

Description: None **Prep Level:** Soil **Batch:** 82609

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/23/07 **Analyzed:** 02/23/07 19:00 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	9.51	
75-05-8	Acetonitrile	1	ND		95.1	
107-02-8	Acrolein	1	ND		19.0	
107-13-1	Acrylonitrile	1	ND		19.0	
107-05-1	Allyl chloride	1	ND		9.51	
71-43-2	Benzene	1	ND		4.76	
75-27-4	Bromodichloromethane	1	ND		4.76	
75-25-2	Bromoform	1	ND		4.76	
74-83-9	Bromomethane	1	ND		4.76	
78-93-3	2-Butanone (MEK)	1	ND	A11	9.51	
75-15-0	Carbon disulfide	1	ND		4.76	
56-23-5	Carbon tetrachloride	1	ND		4.76	
108-90-7	Chlorobenzene	1	ND		4.76	
75-00-3	Chloroethane	1	ND		4.76	
67-66-3	Chloroform	1	ND		4.76	
74-87-3	Chloromethane	1	ND		4.76	
126-99-8	Chloroprene	1	ND		4.76	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		4.76	
124-48-1	Dibromochloromethane	1	ND		4.76	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		4.76	
74-95-3	Dibromomethane	1	ND		4.76	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		4.76	
75-71-8	Dichlorodifluoromethane	1	ND		4.76	
75-34-3	1,1-Dichloroethane	1	ND		4.76	
107-06-2	1,2-Dichloroethane	1	ND		4.76	
75-35-4	1,1-Dichloroethene	1	ND		4.76	
156-60-5	trans-1,2-Dichloroethene	1	4.77		4.76	
78-87-5	1,2-Dichloropropane	1	ND		4.76	
10061-01-5	cis-1,3-Dichloropropene	1	ND		4.76	
10061-02-6	trans-1,3-Dichloropropene	1	ND		4.76	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		238.	
100-41-4	Ethylbenzene	1	ND		4.76	
97-63-2	Ethyl methacrylate	1	ND		9.51	

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Arkansas Dept. of Environmental Quality - 88-0681
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Kansas Dept. of Health .Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-04 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502318 **Matrix:** Soil **% Moisture:** 18.8 Corrected

Description: None **Prep Level:** Soil **Batch:** 82609

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/23/07 **Analyzed:** 02/23/07 19:00 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		9.51	
74-88-4	Iodomethane	1	ND		4.76	
78-83-1	Isobutanol	1	ND		238.	
126-98-7	Methacrylonitrile	1	ND		95.1	
75-09-2	Methylene chloride	1	ND	A11	4.76	
80-62-6	Methyl methacrylate	1	ND		9.51	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		9.51	
107-12-0	Propionitrile	1	ND		19.0	
100-42-5	Styrene	1	ND		4.76	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		4.76	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		4.76	
127-18-4	Tetrachloroethene	1	ND		4.76	
108-88-3	Toluene	1	ND		4.76	
71-55-6	1,1,1-Trichloroethane	1	ND		4.76	
79-00-5	1,1,2-Trichloroethane	1	ND		4.76	
79-01-6	Trichloroethene	1	ND		4.76	
75-69-4	Trichlorofluoromethane	1	ND		4.76	
96-18-4	1,2,3-Trichloropropane	1	ND		4.76	
95-63-6	1,2,4-Trimethylbenzene	1	ND		4.76	
108-67-8	1,3,5-Trimethylbenzene	1	ND		4.76	
108-05-4	Vinyl acetate	1	ND		9.51	
75-01-4	Vinyl chloride	1	95.2		4.76	
	m&p-Xylene	1	ND		4.76	
95-47-6	o-Xylene	1	ND		4.76	

57 compound(s) reported

3/21/2007 16:45:28

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-04 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502318 **Matrix:** Soil **% Moisture:** 18.8 Corrected

Description: None **Prep Level:** Soil **Batch:** 82735

Method: 8270 SVOAs Low Soil **Units:** ug/kg **Target List:** 8270_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/27/07 **Analyzed:** 03/09/07 01:34 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		410.	
1912-24-9	Atrazine	1	ND		410.	
21725-46-2	Cyanazine	1	ND		410.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		410.	
100-02-7	4-Nitrophenol	1	ND		410.	
87-86-5	Pentachlorophenol	1	ND		410.	

6 compound(s) reported

3/21/2007 16:45:28

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-04 (4-6) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502319 **Matrix:** Soil **% Moisture:** 19.6 Corrected

Description: None **Prep Level:** Soil **Batch:** 82550

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/19/07 **Analyzed:** 02/19/07 14:39 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	15.3	A11	9.78	
75-05-8	Acetonitrile	1	ND		97.8	
107-02-8	Acrolein	1	ND		19.6	
107-13-1	Acrylonitrile	1	ND		19.6	
107-05-1	Allyl chloride	1	ND		9.78	
71-43-2	Benzene	1	ND		4.89	
75-27-4	Bromodichloromethane	1	ND		4.89	
75-25-2	Bromoform	1	ND		4.89	
74-83-9	Bromomethane	1	ND		4.89	
78-93-3	2-Butanone (MEK)	1	ND	A11	9.78	
75-15-0	Carbon disulfide	1	ND		4.89	
56-23-5	Carbon tetrachloride	1	ND		4.89	
108-90-7	Chlorobenzene	1	ND		4.89	
75-00-3	Chloroethane	1	ND		4.89	
67-66-3	Chloroform	1	ND		4.89	
74-87-3	Chloromethane	1	ND		4.89	
126-99-8	Chloroprene	1	ND		4.89	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		4.89	
124-48-1	Dibromochloromethane	1	ND		4.89	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		4.89	
74-95-3	Dibromomethane	1	ND		4.89	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		4.89	
75-71-8	Dichlorodifluoromethane	1	ND		4.89	
75-34-3	1,1-Dichloroethane	1	ND		4.89	
107-06-2	1,2-Dichloroethane	1	ND		4.89	
75-35-4	1,1-Dichloroethene	1	ND		4.89	
156-60-5	trans-1,2-Dichloroethene	1	ND		4.89	
78-87-5	1,2-Dichloropropane	1	ND		4.89	
10061-01-5	cis-1,3-Dichloropropene	1	ND		4.89	
10061-02-6	trans-1,3-Dichloropropene	1	ND		4.89	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		245.	
100-41-4	Ethylbenzene	1	ND		4.89	
97-63-2	Ethyl methacrylate	1	ND		9.78	

3/21/2007 16:45:28

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-04 (4-6) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502319 **Matrix:** Soil **% Moisture:** 19.6 Corrected

Description: None **Prep Level:** Soil **Batch:** 82550

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/19/07 **Analyzed:** 02/19/07 14:39 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		9.78	
74-88-4	Iodomethane	1	ND		4.89	
78-83-1	Isobutanol	1	ND		245.	
126-98-7	Methacrylonitrile	1	ND		97.8	
75-09-2	Methylene chloride	1	ND	A11	4.89	
80-62-6	Methyl methacrylate	1	ND		9.78	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		9.78	
107-12-0	Propionitrile	1	ND		19.6	
100-42-5	Styrene	1	ND		4.89	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		4.89	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		4.89	
127-18-4	Tetrachloroethene	1	ND		4.89	
108-88-3	Toluene	1	ND		4.89	
71-55-6	1,1,1-Trichloroethane	1	ND		4.89	
79-00-5	1,1,2-Trichloroethane	1	ND		4.89	
79-01-6	Trichloroethene	1	ND		4.89	
75-69-4	Trichlorofluoromethane	1	ND		4.89	
96-18-4	1,2,3-Trichloropropane	1	ND		4.89	
95-63-6	1,2,4-Trimethylbenzene	1	ND		4.89	
108-67-8	1,3,5-Trimethylbenzene	1	ND		4.89	
108-05-4	Vinyl acetate	1	ND		9.78	
75-01-4	Vinyl chloride	1	ND		4.89	
	m&p-Xylene	1	ND		4.89	
95-47-6	o-Xylene	1	ND		4.89	

57 compound(s) reported

3/21/2007 16:45:29

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-04 (4-6) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502319 **Matrix:** Soil **% Moisture:** 19.6 Corrected

Description: None **Prep Level:** Soil **Batch:** 82735

Method: 8270 SVOAs Low Soil **Units:** ug/kg **Target List:** 8270_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/27/07 **Analyzed:** 03/09/07 00:35 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		414.	
1912-24-9	Atrazine	1	ND		414.	
21725-46-2	Cyanazine	1	ND		414.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		414.	
100-02-7	4-Nitrophenol	1	ND		414.	
87-86-5	Pentachlorophenol	1	ND		414.	

6 compound(s) reported

3/21/2007 16:45:29

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-05 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502320 **Matrix:** Soil **% Moisture:** 21.7 Corrected

Description: None **Prep Level:** Soil **Batch:** 82550

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/19/07 **Analyzed:** 02/19/07 19:47 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	10.6	
75-05-8	Acetonitrile	1	ND		106.	
107-02-8	Acrolein	1	ND		21.2	
107-13-1	Acrylonitrile	1	ND		21.2	
107-05-1	Allyl chloride	1	ND		10.6	
71-43-2	Benzene	1	ND		5.29	
75-27-4	Bromodichloromethane	1	ND		5.29	
75-25-2	Bromoform	1	ND		5.29	
74-83-9	Bromomethane	1	ND		5.29	
78-93-3	2-Butanone (MEK)	1	ND	A11	10.6	
75-15-0	Carbon disulfide	1	ND		5.29	
56-23-5	Carbon tetrachloride	1	ND		5.29	
108-90-7	Chlorobenzene	1	ND		5.29	
75-00-3	Chloroethane	1	ND		5.29	
67-66-3	Chloroform	1	ND		5.29	
74-87-3	Chloromethane	1	ND		5.29	
126-99-8	Chloroprene	1	ND		5.29	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.29	
124-48-1	Dibromochloromethane	1	ND		5.29	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		5.29	
74-95-3	Dibromomethane	1	ND		5.29	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		5.29	
75-71-8	Dichlorodifluoromethane	1	ND		5.29	
75-34-3	1,1-Dichloroethane	1	ND		5.29	
107-06-2	1,2-Dichloroethane	1	ND		5.29	
75-35-4	1,1-Dichloroethene	1	ND		5.29	
156-60-5	trans-1,2-Dichloroethene	1	ND		5.29	
78-87-5	1,2-Dichloropropane	1	ND		5.29	
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.29	
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.29	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		264.	
100-41-4	Ethylbenzene	1	ND		5.29	
97-63-2	Ethyl methacrylate	1	ND		10.6	

3/21/2007 16:45:29

ND denotes Not Detected at or above the adjusted reporting limit.
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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-05 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502320 **Matrix:** Soil **% Moisture:** 21.7 Corrected

Description: None **Prep Level:** Soil **Batch:** 82550

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/19/07 **Analyzed:** 02/19/07 19:47 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		10.6	
74-88-4	Iodomethane	1	ND		5.29	
78-83-1	Isobutanol	1	ND		264.	
126-98-7	Methacrylonitrile	1	ND		106.	
75-09-2	Methylene chloride	1	ND	A11	5.29	
80-62-6	Methyl methacrylate	1	ND		10.6	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.6	
107-12-0	Propionitrile	1	ND		21.2	
100-42-5	Styrene	1	ND		5.29	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.29	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.29	
127-18-4	Tetrachloroethene	1	ND		5.29	
108-88-3	Toluene	1	ND		5.29	
71-55-6	1,1,1-Trichloroethane	1	ND		5.29	
79-00-5	1,1,2-Trichloroethane	1	ND		5.29	
79-01-6	Trichloroethene	1	27.1		5.29	
75-69-4	Trichlorofluoromethane	1	ND		5.29	
96-18-4	1,2,3-Trichloropropane	1	ND		5.29	
95-63-6	1,2,4-Trimethylbenzene	1	ND		5.29	
108-67-8	1,3,5-Trimethylbenzene	1	ND		5.29	
108-05-4	Vinyl acetate	1	ND		10.6	
75-01-4	Vinyl chloride	1	ND		5.29	
	m&p-Xylene	1	ND		5.29	
95-47-6	o-Xylene	1	ND		5.29	

57 compound(s) reported

3/21/2007 16:45:29

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Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environment - E-10266
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1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-05 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502320 **Matrix:** Soil **% Moisture:** 21.7 Corrected

Description: None **Prep Level:** Soil **Batch:** 82735

Method: 8270 SVOAs Low Soil **Units:** ug/kg **Target List:** 8270_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/27/07 **Analyzed:** 03/08/07 18:16 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		425.	
1912-24-9	Atrazine	1	ND		425.	
21725-46-2	Cyanazine	1	ND		425.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		425.	
100-02-7	4-Nitrophenol	1	ND		425.	
87-86-5	Pentachlorophenol	1	ND		425.	

6 compound(s) reported

3/21/2007 16:45:29

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-05 (2-4)
Site: None
Project: MS BLUFFS/LA002656.0001 & 12
Project No.: 2066873
Sample Qu:
Lab ID: 20502321
Matrix: Soil
% Moisture: 22.4 Corrected
Description: None
Prep Level: Soil
Batch: 82609
Method: 8260 VOAs Low Soil
Units: ug/kg
Target List: 8260_SL20
Collected: 02/13/07
Received: 02/15/07
Prep Factor: 1
Prepared: 02/23/07
Analyzed: 02/23/07 19:22 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	10.2	
75-05-8	Acetonitrile	1	ND		102.	
107-02-8	Acrolein	1	ND		20.5	
107-13-1	Acrylonitrile	1	ND		20.5	
107-05-1	Allyl chloride	1	ND		10.2	
71-43-2	Benzene	1	ND		5.12	
75-27-4	Bromodichloromethane	1	ND		5.12	
75-25-2	Bromoform	1	ND		5.12	
74-83-9	Bromomethane	1	ND		5.12	
78-93-3	2-Butanone (MEK)	1	ND	A11	10.2	
75-15-0	Carbon disulfide	1	ND		5.12	
56-23-5	Carbon tetrachloride	1	ND		5.12	
108-90-7	Chlorobenzene	1	ND		5.12	
75-00-3	Chloroethane	1	ND		5.12	
67-66-3	Chloroform	1	ND		5.12	
74-87-3	Chloromethane	1	ND		5.12	
126-99-8	Chloroprene	1	ND		5.12	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.12	
124-48-1	Dibromochloromethane	1	ND		5.12	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		5.12	
74-95-3	Dibromomethane	1	ND		5.12	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		5.12	
75-71-8	Dichlorodifluoromethane	1	ND		5.12	
75-34-3	1,1-Dichloroethane	1	ND		5.12	
107-06-2	1,2-Dichloroethane	1	ND		5.12	
75-35-4	1,1-Dichloroethene	1	ND		5.12	
156-60-5	trans-1,2-Dichloroethene	1	ND		5.12	
78-87-5	1,2-Dichloropropane	1	ND		5.12	
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.12	
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.12	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		256.	
100-41-4	Ethylbenzene	1	ND		5.12	
97-63-2	Ethyl methacrylate	1	ND		10.2	

3/21/2007 16:45:29

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-05 (2-4)
Site: None
Project: MS BLUFFS/LA002656.0001 & 12
Project No.: 2066873
Sample Qu:
Lab ID: 20502321
Matrix: Soil
% Moisture: 22.4 Corrected
Description: None
Prep Level: Soil
Batch: 82609
Method: 8260 VOAs Low Soil
Units: ug/kg
Target List: 8260_SL20
Collected: 02/13/07
Received: 02/15/07
Prep Factor: 1
Prepared: 02/23/07
Analyzed: 02/23/07 19:22 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		10.2	
74-88-4	Iodomethane	1	ND		5.12	
78-83-1	Isobutanol	1	ND		256.	
126-98-7	Methacrylonitrile	1	ND		102.	
75-09-2	Methylene chloride	1	ND	A11	5.12	
80-62-6	Methyl methacrylate	1	ND		10.2	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.2	
107-12-0	Propionitrile	1	ND		20.5	
100-42-5	Styrene	1	ND		5.12	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.12	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.12	
127-18-4	Tetrachloroethene	1	ND		5.12	
108-88-3	Toluene	1	6.52		5.12	
71-55-6	1,1,1-Trichloroethane	1	ND		5.12	
79-00-5	1,1,2-Trichloroethane	1	ND		5.12	
79-01-6	Trichloroethene	1	186.		5.12	
75-69-4	Trichlorofluoromethane	1	ND		5.12	
96-18-4	1,2,3-Trichloropropane	1	ND		5.12	
95-63-6	1,2,4-Trimethylbenzene	1	ND		5.12	
108-67-8	1,3,5-Trimethylbenzene	1	ND		5.12	
108-05-4	Vinyl acetate	1	ND		10.2	
75-01-4	Vinyl chloride	1	ND		5.12	
	m&p-Xylene	1	ND		5.12	
95-47-6	o-Xylene	1	ND		5.12	

57 compound(s) reported

3/21/2007 16:45:29

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-05 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502321 **Matrix:** Soil **% Moisture:** 22.4 Corrected

Description: None **Prep Level:** Soil **Batch:** 82735

Method: 8270 SVOAs Low Soil **Units:** ug/kg **Target List:** 8270_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/27/07 **Analyzed:** 03/08/07 18:45 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		429.	
1912-24-9	Atrazine	1	ND		429.	
21725-46-2	Cyanazine	1	ND		429.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		429.	
100-02-7	4-Nitrophenol	1	ND		429.	
87-86-5	Pentachlorophenol	1	ND		429.	

6 compound(s) reported

3/21/2007 16:45:30

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-06 (0-2)
Site: None
Project: MS BLUFFS/LA002656.0001 & 12
Project No.: 2066873
Sample Qu:
Lab ID: 20502322
Matrix: Soil
% Moisture: 16.8 Corrected
Description: None
Prep Level: Soil
Batch: 82550
Method: 8260 VOAs Low Soil
Units: ug/kg
Target List: 8260_SL20
Collected: 02/13/07
Received: 02/15/07
Prep Factor: 1
Prepared: 02/19/07
Analyzed: 02/19/07 14:58 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	10.2	
75-05-8	Acetonitrile	1	ND		102.	
107-02-8	Acrolein	1	ND		20.4	
107-13-1	Acrylonitrile	1	ND		20.4	
107-05-1	Allyl chloride	1	ND		10.2	
71-43-2	Benzene	1	ND		5.10	
75-27-4	Bromodichloromethane	1	ND		5.10	
75-25-2	Bromoform	1	ND		5.10	
74-83-9	Bromomethane	1	ND		5.10	
78-93-3	2-Butanone (MEK)	1	ND	A11	10.2	
75-15-0	Carbon disulfide	1	ND		5.10	
56-23-5	Carbon tetrachloride	1	ND		5.10	
108-90-7	Chlorobenzene	1	ND		5.10	
75-00-3	Chloroethane	1	ND		5.10	
67-66-3	Chloroform	1	ND		5.10	
74-87-3	Chloromethane	1	ND		5.10	
126-99-8	Chloroprene	1	ND		5.10	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.10	
124-48-1	Dibromochloromethane	1	ND		5.10	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		5.10	
74-95-3	Dibromomethane	1	ND		5.10	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		5.10	
75-71-8	Dichlorodifluoromethane	1	ND		5.10	
75-34-3	1,1-Dichloroethane	1	ND		5.10	
107-06-2	1,2-Dichloroethane	1	ND		5.10	
75-35-4	1,1-Dichloroethene	1	ND		5.10	
156-60-5	trans-1,2-Dichloroethene	1	ND		5.10	
78-87-5	1,2-Dichloropropane	1	ND		5.10	
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.10	
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.10	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		255.	
100-41-4	Ethylbenzene	1	ND		5.10	
97-63-2	Ethyl methacrylate	1	ND		10.2	

3/21/2007 16:45:30

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-06 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502322 **Matrix:** Soil **% Moisture:** 16.8 Corrected

Description: None **Prep Level:** Soil **Batch:** 82550

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/19/07 **Analyzed:** 02/19/07 14:58 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		10.2	
74-88-4	Iodomethane	1	ND		5.10	
78-83-1	Isobutanol	1	ND		255.	
126-98-7	Methacrylonitrile	1	ND		102.	
75-09-2	Methylene chloride	1	ND	A11	5.10	
80-62-6	Methyl methacrylate	1	ND		10.2	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.2	
107-12-0	Propionitrile	1	ND		20.4	
100-42-5	Styrene	1	ND		5.10	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.10	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.10	
127-18-4	Tetrachloroethene	1	ND		5.10	
108-88-3	Toluene	1	7.34		5.10	
71-55-6	1,1,1-Trichloroethane	1	ND		5.10	
79-00-5	1,1,2-Trichloroethane	1	ND		5.10	
79-01-6	Trichloroethene	1	ND		5.10	
75-69-4	Trichlorofluoromethane	1	ND		5.10	
96-18-4	1,2,3-Trichloropropane	1	ND		5.10	
95-63-6	1,2,4-Trimethylbenzene	1	ND		5.10	
108-67-8	1,3,5-Trimethylbenzene	1	ND		5.10	
108-05-4	Vinyl acetate	1	ND		10.2	
75-01-4	Vinyl chloride	1	ND		5.10	
	m&p-Xylene	1	ND		5.10	
95-47-6	o-Xylene	1	ND		5.10	

57 compound(s) reported

3/21/2007 16:45:30

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-06 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502322 **Matrix:** Soil **% Moisture:** 16.8 Corrected

Description: None **Prep Level:** Soil **Batch:** 82735

Method: 8270 SVOAs Low Soil **Units:** ug/kg **Target List:** 8270_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/27/07 **Analyzed:** 03/08/07 19:14 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		400.	
1912-24-9	Atrazine	1	ND		400.	
21725-46-2	Cyanazine	1	ND		400.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		400.	
100-02-7	4-Nitrophenol	1	ND		400.	
87-86-5	Pentachlorophenol	1	ND		400.	

6 compound(s) reported

3/21/2007 16:45:30

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DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-06 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502323 **Matrix:** Soil **% Moisture:** 23.8 Corrected

Description: None **Prep Level:** Soil **Batch:** 82550

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/19/07 **Analyzed:** 02/19/07 15:17 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	10.6	
75-05-8	Acetonitrile	1	ND		106.	
107-02-8	Acrolein	1	ND		21.3	
107-13-1	Acrylonitrile	1	ND		21.3	
107-05-1	Allyl chloride	1	ND		10.6	
71-43-2	Benzene	1	ND		5.32	
75-27-4	Bromodichloromethane	1	ND		5.32	
75-25-2	Bromoform	1	ND		5.32	
74-83-9	Bromomethane	1	ND		5.32	
78-93-3	2-Butanone (MEK)	1	ND	A11	10.6	
75-15-0	Carbon disulfide	1	ND		5.32	
56-23-5	Carbon tetrachloride	1	ND		5.32	
108-90-7	Chlorobenzene	1	ND		5.32	
75-00-3	Chloroethane	1	ND		5.32	
67-66-3	Chloroform	1	ND		5.32	
74-87-3	Chloromethane	1	ND		5.32	
126-99-8	Chloroprene	1	ND		5.32	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.32	
124-48-1	Dibromochloromethane	1	ND		5.32	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		5.32	
74-95-3	Dibromomethane	1	ND		5.32	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		5.32	
75-71-8	Dichlorodifluoromethane	1	ND		5.32	
75-34-3	1,1-Dichloroethane	1	ND		5.32	
107-06-2	1,2-Dichloroethane	1	ND		5.32	
75-35-4	1,1-Dichloroethene	1	ND		5.32	
156-60-5	trans-1,2-Dichloroethene	1	ND		5.32	
78-87-5	1,2-Dichloropropane	1	ND		5.32	
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.32	
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.32	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		266.	
100-41-4	Ethylbenzene	1	ND		5.32	
97-63-2	Ethyl methacrylate	1	ND		10.6	

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Kansas Dept. of Health .Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-06 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502323 **Matrix:** Soil **% Moisture:** 23.8 Corrected

Description: None **Prep Level:** Soil **Batch:** 82550

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/19/07 **Analyzed:** 02/19/07 15:17 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		10.6	
74-88-4	Iodomethane	1	ND		5.32	
78-83-1	Isobutanol	1	ND		266.	
126-98-7	Methacrylonitrile	1	ND		106.	
75-09-2	Methylene chloride	1	ND	A11	5.32	
80-62-6	Methyl methacrylate	1	ND		10.6	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.6	
107-12-0	Propionitrile	1	ND		21.3	
100-42-5	Styrene	1	ND		5.32	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.32	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.32	
127-18-4	Tetrachloroethene	1	ND		5.32	
108-88-3	Toluene	1	7.39		5.32	
71-55-6	1,1,1-Trichloroethane	1	ND		5.32	
79-00-5	1,1,2-Trichloroethane	1	ND		5.32	
79-01-6	Trichloroethene	1	ND		5.32	
75-69-4	Trichlorofluoromethane	1	ND		5.32	
96-18-4	1,2,3-Trichloropropane	1	ND		5.32	
95-63-6	1,2,4-Trimethylbenzene	1	ND		5.32	
108-67-8	1,3,5-Trimethylbenzene	1	ND		5.32	
108-05-4	Vinyl acetate	1	ND		10.6	
75-01-4	Vinyl chloride	1	ND		5.32	
	m&p-Xylene	1	ND		5.32	
95-47-6	o-Xylene	1	ND		5.32	

57 compound(s) reported

3/21/2007 16:45:30

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-06 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502323 **Matrix:** Soil **% Moisture:** 23.8 Corrected

Description: None **Prep Level:** Soil **Batch:** 82735

Method: 8270 SVOAs Low Soil **Units:** ug/kg **Target List:** 8270_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/27/07 **Analyzed:** 03/08/07 19:44 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		437.	
1912-24-9	Atrazine	1	ND		437.	
21725-46-2	Cyanazine	1	ND		437.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		437.	
100-02-7	4-Nitrophenol	1	ND		437.	
87-86-5	Pentachlorophenol	1	ND		437.	

6 compound(s) reported

3/21/2007 16:45:30

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-07 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502324 **Matrix:** Soil **% Moisture:** 23.3 Corrected

Description: None **Prep Level:** Soil **Batch:** 82550

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/19/07 **Analyzed:** 02/19/07 15:36 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	10.2	
75-05-8	Acetonitrile	1	ND		102.	
107-02-8	Acrolein	1	ND		20.5	
107-13-1	Acrylonitrile	1	ND		20.5	
107-05-1	Allyl chloride	1	ND		10.2	
71-43-2	Benzene	1	ND		5.12	
75-27-4	Bromodichloromethane	1	ND		5.12	
75-25-2	Bromoform	1	ND		5.12	
74-83-9	Bromomethane	1	ND		5.12	
78-93-3	2-Butanone (MEK)	1	ND	A11	10.2	
75-15-0	Carbon disulfide	1	ND		5.12	
56-23-5	Carbon tetrachloride	1	ND		5.12	
108-90-7	Chlorobenzene	1	ND		5.12	
75-00-3	Chloroethane	1	ND		5.12	
67-66-3	Chloroform	1	ND		5.12	
74-87-3	Chloromethane	1	ND		5.12	
126-99-8	Chloroprene	1	ND		5.12	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.12	
124-48-1	Dibromochloromethane	1	ND		5.12	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		5.12	
74-95-3	Dibromomethane	1	ND		5.12	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		5.12	
75-71-8	Dichlorodifluoromethane	1	ND		5.12	
75-34-3	1,1-Dichloroethane	1	ND		5.12	
107-06-2	1,2-Dichloroethane	1	ND		5.12	
75-35-4	1,1-Dichloroethene	1	ND		5.12	
156-60-5	trans-1,2-Dichloroethene	1	ND		5.12	
78-87-5	1,2-Dichloropropane	1	ND		5.12	
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.12	
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.12	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		256.	
100-41-4	Ethylbenzene	1	ND		5.12	
97-63-2	Ethyl methacrylate	1	ND		10.2	

3/21/2007 16:45:30

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-07 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502324 **Matrix:** Soil **% Moisture:** 23.3 Corrected

Description: None **Prep Level:** Soil **Batch:** 82550

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/19/07 **Analyzed:** 02/19/07 15:36 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		10.2	
74-88-4	Iodomethane	1	ND		5.12	
78-83-1	Isobutanol	1	ND		256.	
126-98-7	Methacrylonitrile	1	ND		102.	
75-09-2	Methylene chloride	1	ND	A11	5.12	
80-62-6	Methyl methacrylate	1	ND		10.2	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.2	
107-12-0	Propionitrile	1	ND		20.5	
100-42-5	Styrene	1	ND		5.12	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.12	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.12	
127-18-4	Tetrachloroethene	1	ND		5.12	
108-88-3	Toluene	1	6.47		5.12	
71-55-6	1,1,1-Trichloroethane	1	ND		5.12	
79-00-5	1,1,2-Trichloroethane	1	ND		5.12	
79-01-6	Trichloroethene	1	ND		5.12	
75-69-4	Trichlorofluoromethane	1	ND		5.12	
96-18-4	1,2,3-Trichloropropane	1	ND		5.12	
95-63-6	1,2,4-Trimethylbenzene	1	ND		5.12	
108-67-8	1,3,5-Trimethylbenzene	1	ND		5.12	
108-05-4	Vinyl acetate	1	ND		10.2	
75-01-4	Vinyl chloride	1	ND		5.12	
	m&p-Xylene	1	ND		5.12	
95-47-6	o-Xylene	1	ND		5.12	

57 compound(s) reported

3/21/2007 16:45:31

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-07 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502324 **Matrix:** Soil **% Moisture:** 23.3 Corrected

Description: None **Prep Level:** Soil **Batch:** 82735

Method: 8270 SVOAs Low Soil **Units:** ug/kg **Target List:** 8270_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/27/07 **Analyzed:** 03/09/07 00:06 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		434.	
1912-24-9	Atrazine	1	ND		434.	
21725-46-2	Cyanazine	1	ND		434.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	2210		434.	
100-02-7	4-Nitrophenol	1	ND		434.	
87-86-5	Pentachlorophenol	1	ND		434.	

6 compound(s) reported

3/21/2007 16:45:31

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-07 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502325 **Matrix:** Soil **% Moisture:** 23.5 Corrected

Description: None **Prep Level:** Soil **Batch:** 82550

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/19/07 **Analyzed:** 02/19/07 15:55 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	9.75	
75-05-8	Acetonitrile	1	ND		97.5	
107-02-8	Acrolein	1	ND		19.5	
107-13-1	Acrylonitrile	1	ND		19.5	
107-05-1	Allyl chloride	1	ND		9.75	
71-43-2	Benzene	1	ND		4.88	
75-27-4	Bromodichloromethane	1	ND		4.88	
75-25-2	Bromoform	1	ND		4.88	
74-83-9	Bromomethane	1	ND		4.88	
78-93-3	2-Butanone (MEK)	1	ND	A11	9.75	
75-15-0	Carbon disulfide	1	ND		4.88	
56-23-5	Carbon tetrachloride	1	ND		4.88	
108-90-7	Chlorobenzene	1	ND		4.88	
75-00-3	Chloroethane	1	ND		4.88	
67-66-3	Chloroform	1	ND		4.88	
74-87-3	Chloromethane	1	ND		4.88	
126-99-8	Chloroprene	1	ND		4.88	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		4.88	
124-48-1	Dibromochloromethane	1	ND		4.88	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		4.88	
74-95-3	Dibromomethane	1	ND		4.88	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		4.88	
75-71-8	Dichlorodifluoromethane	1	ND		4.88	
75-34-3	1,1-Dichloroethane	1	ND		4.88	
107-06-2	1,2-Dichloroethane	1	ND		4.88	
75-35-4	1,1-Dichloroethene	1	ND		4.88	
156-60-5	trans-1,2-Dichloroethene	1	ND		4.88	
78-87-5	1,2-Dichloropropane	1	ND		4.88	
10061-01-5	cis-1,3-Dichloropropene	1	ND		4.88	
10061-02-6	trans-1,3-Dichloropropene	1	ND		4.88	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		244.	
100-41-4	Ethylbenzene	1	ND		4.88	
97-63-2	Ethyl methacrylate	1	ND		9.75	

3/21/2007 16:45:31

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-07 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502325 **Matrix:** Soil **% Moisture:** 23.5 Corrected

Description: None **Prep Level:** Soil **Batch:** 82550

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/19/07 **Analyzed:** 02/19/07 15:55 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		9.75	
74-88-4	Iodomethane	1	ND		4.88	
78-83-1	Isobutanol	1	ND		244.	
126-98-7	Methacrylonitrile	1	ND		97.5	
75-09-2	Methylene chloride	1	ND	A11	4.88	
80-62-6	Methyl methacrylate	1	ND		9.75	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		9.75	
107-12-0	Propionitrile	1	ND		19.5	
100-42-5	Styrene	1	ND		4.88	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		4.88	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		4.88	
127-18-4	Tetrachloroethene	1	ND		4.88	
108-88-3	Toluene	1	6.54		4.88	
71-55-6	1,1,1-Trichloroethane	1	ND		4.88	
79-00-5	1,1,2-Trichloroethane	1	ND		4.88	
79-01-6	Trichloroethene	1	ND		4.88	
75-69-4	Trichlorofluoromethane	1	ND		4.88	
96-18-4	1,2,3-Trichloropropane	1	ND		4.88	
95-63-6	1,2,4-Trimethylbenzene	1	ND		4.88	
108-67-8	1,3,5-Trimethylbenzene	1	ND		4.88	
108-05-4	Vinyl acetate	1	ND		9.75	
75-01-4	Vinyl chloride	1	ND		4.88	
	m&p-Xylene	1	ND		4.88	
95-47-6	o-Xylene	1	ND		4.88	

57 compound(s) reported

3/21/2007 16:45:31

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-07 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502325 **Matrix:** Soil **% Moisture:** 23.5 Corrected

Description: None **Prep Level:** Soil **Batch:** 82735

Method: 8270 SVOAs Low Soil **Units:** ug/kg **Target List:** 8270_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/27/07 **Analyzed:** 03/09/07 18:19 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		435.	
1912-24-9	Atrazine	1	ND		435.	
21725-46-2	Cyanazine	1	ND		435.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		435.	
100-02-7	4-Nitrophenol	1	ND		435.	
87-86-5	Pentachlorophenol	1	ND		435.	

6 compound(s) reported

3/21/2007 16:45:31

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-DUP-01 **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502329 **Matrix:** Soil **% Moisture:** 19.8 Corrected

Description: None **Prep Level:** Soil **Batch:** 82550

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/19/07 **Analyzed:** 02/19/07 16:15 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	10.6	
75-05-8	Acetonitrile	1	ND		106.	
107-02-8	Acrolein	1	ND		21.1	
107-13-1	Acrylonitrile	1	ND		21.1	
107-05-1	Allyl chloride	1	ND		10.6	
71-43-2	Benzene	1	ND		5.28	
75-27-4	Bromodichloromethane	1	ND		5.28	
75-25-2	Bromoform	1	ND		5.28	
74-83-9	Bromomethane	1	ND		5.28	
78-93-3	2-Butanone (MEK)	1	ND	A11	10.6	
75-15-0	Carbon disulfide	1	ND		5.28	
56-23-5	Carbon tetrachloride	1	ND		5.28	
108-90-7	Chlorobenzene	1	ND		5.28	
75-00-3	Chloroethane	1	ND		5.28	
67-66-3	Chloroform	1	ND		5.28	
74-87-3	Chloromethane	1	ND		5.28	
126-99-8	Chloroprene	1	ND		5.28	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.28	
124-48-1	Dibromochloromethane	1	ND		5.28	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		5.28	
74-95-3	Dibromomethane	1	ND		5.28	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		5.28	
75-71-8	Dichlorodifluoromethane	1	ND		5.28	
75-34-3	1,1-Dichloroethane	1	ND		5.28	
107-06-2	1,2-Dichloroethane	1	ND		5.28	
75-35-4	1,1-Dichloroethene	1	ND		5.28	
156-60-5	trans-1,2-Dichloroethene	1	ND		5.28	
78-87-5	1,2-Dichloropropane	1	ND		5.28	
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.28	
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.28	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		264.	
100-41-4	Ethylbenzene	1	ND		5.28	
97-63-2	Ethyl methacrylate	1	ND		10.6	

3/21/2007 16:45:31

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-DUP-01 | **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 | **Project No.:** 2066873 | **Sample Qu:**

Lab ID: 20502329 | **Matrix:** Soil | **% Moisture:** 19.8 Corrected

Description: None | **Prep Level:** Soil | **Batch:** 82550

Method: 8260 VOAs Low Soil | **Units:** ug/kg | **Target List:** 8260_SL20

Collected: 02/13/07 | **Received:** 02/15/07

Prep Factor: 1 | **Prepared:** 02/19/07 | **Analyzed:** 02/19/07 16:15 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		10.6	
74-88-4	Iodomethane	1	ND		5.28	
78-83-1	Isobutanol	1	ND		264.	
126-98-7	Methacrylonitrile	1	ND		106.	
75-09-2	Methylene chloride	1	ND	A11	5.28	
80-62-6	Methyl methacrylate	1	ND		10.6	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.6	
107-12-0	Propionitrile	1	ND		21.1	
100-42-5	Styrene	1	ND		5.28	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.28	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.28	
127-18-4	Tetrachloroethene	1	ND		5.28	
108-88-3	Toluene	1	8.36		5.28	
71-55-6	1,1,1-Trichloroethane	1	ND		5.28	
79-00-5	1,1,2-Trichloroethane	1	ND		5.28	
79-01-6	Trichloroethene	1	ND		5.28	
75-69-4	Trichlorofluoromethane	1	ND		5.28	
96-18-4	1,2,3-Trichloropropane	1	ND		5.28	
95-63-6	1,2,4-Trimethylbenzene	1	ND		5.28	
108-67-8	1,3,5-Trimethylbenzene	1	ND		5.28	
108-05-4	Vinyl acetate	1	ND		10.6	
75-01-4	Vinyl chloride	1	ND		5.28	
	m&p-Xylene	1	ND		5.28	
95-47-6	o-Xylene	1	ND		5.28	

57 compound(s) reported

3/21/2007 16:45:31

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-DUP-01 **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502329 **Matrix:** Soil **% Moisture:** 19.8 Corrected

Description: None **Prep Level:** Soil **Batch:** 82735

Method: 8270 SVOAs Low Soil **Units:** ug/kg **Target List:** 8270_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/27/07 **Analyzed:** 03/09/07 01:04 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		415.	
1912-24-9	Atrazine	1	ND		415.	
21725-46-2	Cyanazine	1	ND		415.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		415.	
100-02-7	4-Nitrophenol	1	ND		415.	
87-86-5	Pentachlorophenol	1	ND		415.	

6 compound(s) reported

3/21/2007 16:45:31

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-08 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502330 **Matrix:** Soil **% Moisture:** 12 Corrected

Description: None **Prep Level:** Soil **Batch:** 82550

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/19/07 **Analyzed:** 02/19/07 16:34 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	9.63	
75-05-8	Acetonitrile	1	ND		96.3	
107-02-8	Acrolein	1	ND		19.3	
107-13-1	Acrylonitrile	1	ND		19.3	
107-05-1	Allyl chloride	1	ND		9.63	
71-43-2	Benzene	1	ND		4.82	
75-27-4	Bromodichloromethane	1	ND		4.82	
75-25-2	Bromoform	1	ND		4.82	
74-83-9	Bromomethane	1	ND		4.82	
78-93-3	2-Butanone (MEK)	1	ND	A11	9.63	
75-15-0	Carbon disulfide	1	ND		4.82	
56-23-5	Carbon tetrachloride	1	ND		4.82	
108-90-7	Chlorobenzene	1	ND		4.82	
75-00-3	Chloroethane	1	ND		4.82	
67-66-3	Chloroform	1	ND		4.82	
74-87-3	Chloromethane	1	ND		4.82	
126-99-8	Chloroprene	1	ND		4.82	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		4.82	
124-48-1	Dibromochloromethane	1	ND		4.82	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		4.82	
74-95-3	Dibromomethane	1	ND		4.82	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		4.82	
75-71-8	Dichlorodifluoromethane	1	ND		4.82	
75-34-3	1,1-Dichloroethane	1	ND		4.82	
107-06-2	1,2-Dichloroethane	1	ND		4.82	
75-35-4	1,1-Dichloroethene	1	ND		4.82	
156-60-5	trans-1,2-Dichloroethene	1	ND		4.82	
78-87-5	1,2-Dichloropropane	1	ND		4.82	
10061-01-5	cis-1,3-Dichloropropene	1	ND		4.82	
10061-02-6	trans-1,3-Dichloropropene	1	ND		4.82	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		241.	
100-41-4	Ethylbenzene	1	ND		4.82	
97-63-2	Ethyl methacrylate	1	ND		9.63	

3/21/2007 16:45:32

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-08 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502330 **Matrix:** Soil **% Moisture:** 12 Corrected

Description: None **Prep Level:** Soil **Batch:** 82550

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/19/07 **Analyzed:** 02/19/07 16:34 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		9.63	
74-88-4	Iodomethane	1	ND		4.82	
78-83-1	Isobutanol	1	ND		241.	
126-98-7	Methacrylonitrile	1	ND		96.3	
75-09-2	Methylene chloride	1	ND	A11	4.82	
80-62-6	Methyl methacrylate	1	ND		9.63	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		9.63	
107-12-0	Propionitrile	1	ND		19.3	
100-42-5	Styrene	1	ND		4.82	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		4.82	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		4.82	
127-18-4	Tetrachloroethene	1	ND		4.82	
108-88-3	Toluene	1	7.78		4.82	
71-55-6	1,1,1-Trichloroethane	1	ND		4.82	
79-00-5	1,1,2-Trichloroethane	1	ND		4.82	
79-01-6	Trichloroethene	1	ND		4.82	
75-69-4	Trichlorofluoromethane	1	ND		4.82	
96-18-4	1,2,3-Trichloropropane	1	ND		4.82	
95-63-6	1,2,4-Trimethylbenzene	1	ND		4.82	
108-67-8	1,3,5-Trimethylbenzene	1	ND		4.82	
108-05-4	Vinyl acetate	1	ND		9.63	
75-01-4	Vinyl chloride	1	ND		4.82	
	m&p-Xylene	1	4.90		4.82	
95-47-6	o-Xylene	1	ND		4.82	

57 compound(s) reported

3/21/2007 16:45:32

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-08 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502330 **Matrix:** Soil **% Moisture:** 12 Corrected

Description: None **Prep Level:** Soil **Batch:** 82735

Method: 8270 SVOAs Low Soil **Units:** ug/kg **Target List:** 8270_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/27/07 **Analyzed:** 03/08/07 17:17 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		379.	
1912-24-9	Atrazine	1	ND		379.	
21725-46-2	Cyanazine	1	ND		379.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		379.	
100-02-7	4-Nitrophenol	1	ND		379.	
87-86-5	Pentachlorophenol	1	ND		379.	

6 compound(s) reported

3/21/2007 16:45:32

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-08 (0-2)MS
Site: None
Project: MS BLUFFS/LA002656.0001 & 12
Project No.: 2066873
Sample Qu:
Lab ID: 20502330MS
Matrix: Soil
% Moisture: 12 Corrected
Description: None
Prep Level: Soil
Batch: 82550
Method: 8260 VOAs Low Soil MS
Units: ug/kg
Target List: 8260 MSL20
Collected: 02/13/07
Received: 02/15/07
Prep Factor: 1
Prepared: 02/19/07
Analyzed: 02/19/07 16:53 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	35.1	A11	9.44	
75-05-8	Acetonitrile	1	619.		94.4	
107-02-8	Acrolein	1	ND	Q1	18.9	
107-13-1	Acrylonitrile	1	111.		18.9	
107-05-1	Allyl chloride	1	62.0		9.44	
71-43-2	Benzene	1	33.3		4.72	
75-27-4	Bromodichloromethane	1	30.9		4.72	
75-25-2	Bromoform	1	42.2		4.72	
74-83-9	Bromomethane	1	20.0		4.72	
78-93-3	2-Butanone (MEK)	1	53.5	A11	9.44	
75-15-0	Carbon disulfide	1	27.5		4.72	
56-23-5	Carbon tetrachloride	1	31.8		4.72	
108-90-7	Chlorobenzene	1	34.5		4.72	
75-00-3	Chloroethane	1	35.6		4.72	
67-66-3	Chloroform	1	35.6		4.72	
74-87-3	Chloromethane	1	45.3		4.72	
126-99-8	Chloroprene	1	37.0		4.72	
96-12-8	1,2-Dibromo-3-chloropropane	1	39.3		4.72	
124-48-1	Dibromochloromethane	1	36.5		4.72	
106-93-4	1,2-Dibromoethane (EDB)	1	42.5		4.72	
74-95-3	Dibromomethane	1	36.0		4.72	
110-57-6	trans-1,4-Dichloro-2-butene	1	69.3		4.72	
75-34-3	1,1-Dichloroethane	1	33.7		4.72	
107-06-2	1,2-Dichloroethane	1	32.9		4.72	
75-35-4	1,1-Dichloroethene	1	34.5		4.72	
156-60-5	trans-1,2-Dichloroethene	1	34.5		4.72	
78-87-5	1,2-Dichloropropane	1	31.0		4.72	
10061-01-5	cis-1,3-Dichloropropene	1	34.0		4.72	
10061-02-6	trans-1,3-Dichloropropene	1	34.4		4.72	
123-91-1	1,4-Dioxane (p-Dioxane)	1	2024	Q1	236.	
100-41-4	Ethylbenzene	1	35.0		4.72	
97-63-2	Ethyl methacrylate	1	86.9		9.44	
591-78-6	2-Hexanone	1	50.1		9.44	

3/21/2007 16:45:32

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Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environment - E-10266
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Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-08 (0-2)MS
Site: None
Project: MS BLUFFS/LA002656.0001 & 12
Project No.: 2066873
Sample Qu:
Lab ID: 20502330MS
Matrix: Soil
% Moisture: 12 Corrected
Description: None
Prep Level: Soil
Batch: 82550
Method: 8260 VOAs Low Soil MS
Units: ug/kg
Target List: 8260 MSL20
Collected: 02/13/07
Received: 02/15/07
Prep Factor: 1
Prepared: 02/19/07
Analyzed: 02/19/07 16:53 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
74-88-4	Iodomethane	1	39.0		4.72	
78-83-1	Isobutanol	1	1178		236.	
126-98-7	Methacrylonitrile	1	493.		94.4	
75-09-2	Methylene chloride	1	42.7	A11	4.72	
80-62-6	Methyl methacrylate	1	84.5		9.44	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	51.5		9.44	
107-12-0	Propionitrile	1	466.		18.9	
100-42-5	Styrene	1	37.0		4.72	
630-20-6	1,1,1,2-Tetrachloroethane	1	36.4		4.72	
79-34-5	1,1,2,2-Tetrachloroethane	1	35.9		4.72	
127-18-4	Tetrachloroethene	1	37.4		4.72	
108-88-3	Toluene	1	38.6		4.72	
71-55-6	1,1,1-Trichloroethane	1	34.7		4.72	
79-00-5	1,1,2-Trichloroethane	1	36.3		4.72	
79-01-6	Trichloroethene	1	33.6		4.72	
75-69-4	Trichlorofluoromethane	1	46.0		4.72	
96-18-4	1,2,3-Trichloropropane	1	40.2		4.72	
95-63-6	1,2,4-Trimethylbenzene	1	35.5		4.72	
108-67-8	1,3,5-Trimethylbenzene	1	30.8	Q1	4.72	
108-05-4	Vinyl acetate	1	105.		9.44	
75-01-4	Vinyl chloride	1	39.2		4.72	
	m&p-Xylene	1	70.1		4.72	
95-47-6	o-Xylene	1	36.2		4.72	

56 compound(s) reported

3/21/2007 16:45:32

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-08 (0-2)MS
Site: None
Project: MS BLUFFS/LA002656.0001 & 12
Project No.: 2066873
Sample Qu:
Lab ID: 20502330MS
Matrix: Soil
% Moisture: 12 Corrected
Description: None
Prep Level: Soil
Batch: 82735
Method: 8270 SVOAs Low Soil MS
Units: ug/kg
Target List: 8270 MSL20
Collected: 02/13/07
Received: 02/15/07
Prep Factor: 1
Prepared: 02/27/07
Analyzed: 03/08/07 16:19 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	1134		379.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	1088		379.	
100-02-7	4-Nitrophenol	1	1578		379.	
87-86-5	Pentachlorophenol	1	1204		379.	

4 compound(s) reported

3/21/2007 16:45:32

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-08 (0-2)MSD
Site: None
Project: MS BLUFFS/LA002656.0001 & 12
Project No.: 2066873
Sample Qu:
Lab ID: 20502330MSD
Matrix: Soil
% Moisture: 12 Corrected
Description: None
Prep Level: Soil
Batch: 82550
Method: 8260 VOAs Low Soil MS
Units: ug/kg
Target List: 8260 MSL20
Collected: 02/13/07
Received: 02/15/07
Prep Factor: 1
Prepared: 02/19/07
Analyzed: 02/19/07 17:12 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	33.4	A11	9.30	
75-05-8	Acetonitrile	1	591.		93.0	
107-02-8	Acrolein	1	67.7		18.6	
107-13-1	Acrylonitrile	1	90.5		18.6	
107-05-1	Allyl chloride	1	60.1		9.30	
71-43-2	Benzene	1	31.0		4.65	
75-27-4	Bromodichloromethane	1	28.5		4.65	
75-25-2	Bromoform	1	37.8		4.65	
74-83-9	Bromomethane	1	17.7		4.65	
78-93-3	2-Butanone (MEK)	1	42.9	A11	9.30	
75-15-0	Carbon disulfide	1	26.8		4.65	
56-23-5	Carbon tetrachloride	1	30.2		4.65	
108-90-7	Chlorobenzene	1	31.7		4.65	
75-00-3	Chloroethane	1	34.7		4.65	
67-66-3	Chloroform	1	33.7		4.65	
74-87-3	Chloromethane	1	42.1		4.65	
126-99-8	Chloroprene	1	35.2		4.65	
96-12-8	1,2-Dibromo-3-chloropropane	1	35.7		4.65	
124-48-1	Dibromochloromethane	1	32.9		4.65	
106-93-4	1,2-Dibromoethane (EDB)	1	37.6		4.65	
74-95-3	Dibromomethane	1	32.1		4.65	
110-57-6	trans-1,4-Dichloro-2-butene	1	58.9		4.65	
75-34-3	1,1-Dichloroethane	1	32.0		4.65	
107-06-2	1,2-Dichloroethane	1	30.2		4.65	
75-35-4	1,1-Dichloroethene	1	34.0		4.65	
156-60-5	trans-1,2-Dichloroethene	1	33.2		4.65	
78-87-5	1,2-Dichloropropane	1	29.1		4.65	
10061-01-5	cis-1,3-Dichloropropene	1	31.0		4.65	
10061-02-6	trans-1,3-Dichloropropene	1	30.9		4.65	
123-91-1	1,4-Dioxane (p-Dioxane)	1	1360		233.	
100-41-4	Ethylbenzene	1	32.7		4.65	
97-63-2	Ethyl methacrylate	1	77.7		9.30	
591-78-6	2-Hexanone	1	44.0		9.30	

3/21/2007 16:45:32

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-08 (0-2)MSD
Site: None
Project: MS BLUFFS/LA002656.0001 & 12
Project No.: 2066873
Sample Qu:
Lab ID: 20502330MSD
Matrix: Soil
% Moisture: 12 Corrected
Description: None
Prep Level: Soil
Batch: 82550
Method: 8260 VOAs Low Soil MS
Units: ug/kg
Target List: 8260 MSL20
Collected: 02/13/07
Received: 02/15/07
Prep Factor: 1
Prepared: 02/19/07
Analyzed: 02/19/07 17:12 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
74-88-4	Iodomethane	1	37.4		4.65	
78-83-1	Isobutanol	1	883.		233.	
126-98-7	Methacrylonitrile	1	431.		93.0	
75-09-2	Methylene chloride	1	41.0	A11	4.65	
80-62-6	Methyl methacrylate	1	74.6		9.30	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	45.1		9.30	
107-12-0	Propionitrile	1	394.		18.6	
100-42-5	Styrene	1	33.7		4.65	
630-20-6	1,1,1,2-Tetrachloroethane	1	33.5		4.65	
79-34-5	1,1,2,2-Tetrachloroethane	1	30.8		4.65	
127-18-4	Tetrachloroethene	1	35.5		4.65	
108-88-3	Toluene	1	35.9		4.65	
71-55-6	1,1,1-Trichloroethane	1	32.9		4.65	
79-00-5	1,1,2-Trichloroethane	1	32.5		4.65	
79-01-6	Trichloroethene	1	31.4		4.65	
75-69-4	Trichlorofluoromethane	1	48.3		4.65	
96-18-4	1,2,3-Trichloropropane	1	32.2		4.65	
95-63-6	1,2,4-Trimethylbenzene	1	31.4		4.65	
108-67-8	1,3,5-Trimethylbenzene	1	27.9	Q1	4.65	
108-05-4	Vinyl acetate	1	84.2		9.30	
75-01-4	Vinyl chloride	1	38.0		4.65	
	m&p-Xylene	1	65.7		4.65	
95-47-6	o-Xylene	1	33.1		4.65	

56 compound(s) reported

3/21/2007 16:45:32

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-08 (0-2)MSD
Site: None
Project: MS BLUFFS/LA002656.0001 & 12
Project No.: 2066873
Sample Qu:
Lab ID: 20502330MSD
Matrix: Soil
% Moisture: 12 Corrected
Description: None
Prep Level: Soil
Batch: 82735
Method: 8270 SVOAs Low Soil MS
Units: ug/kg
Target List: 8270 MSL20
Collected: 02/13/07
Received: 02/15/07
Prep Factor: 1
Prepared: 02/27/07
Analyzed: 03/08/07 16:48 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	1216		379.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	1248		379.	
100-02-7	4-Nitrophenol	1	1672		379.	
87-86-5	Pentachlorophenol	1	1717		379.	

4 compound(s) reported

3/21/2007 16:45:33

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-08 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502331 **Matrix:** Soil **% Moisture:** 21.1 Corrected

Description: None **Prep Level:** Soil **Batch:** 82550

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/19/07 **Analyzed:** 02/19/07 17:32 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	10.2	
75-05-8	Acetonitrile	1	ND		102.	
107-02-8	Acrolein	1	ND		20.5	
107-13-1	Acrylonitrile	1	ND		20.5	
107-05-1	Allyl chloride	1	ND		10.2	
71-43-2	Benzene	1	ND		5.12	
75-27-4	Bromodichloromethane	1	ND		5.12	
75-25-2	Bromoform	1	ND		5.12	
74-83-9	Bromomethane	1	ND		5.12	
78-93-3	2-Butanone (MEK)	1	ND	A11	10.2	
75-15-0	Carbon disulfide	1	ND		5.12	
56-23-5	Carbon tetrachloride	1	ND		5.12	
108-90-7	Chlorobenzene	1	ND		5.12	
75-00-3	Chloroethane	1	ND		5.12	
67-66-3	Chloroform	1	ND		5.12	
74-87-3	Chloromethane	1	ND		5.12	
126-99-8	Chloroprene	1	ND		5.12	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.12	
124-48-1	Dibromochloromethane	1	ND		5.12	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		5.12	
74-95-3	Dibromomethane	1	ND		5.12	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		5.12	
75-71-8	Dichlorodifluoromethane	1	ND		5.12	
75-34-3	1,1-Dichloroethane	1	ND		5.12	
107-06-2	1,2-Dichloroethane	1	ND		5.12	
75-35-4	1,1-Dichloroethene	1	ND		5.12	
156-60-5	trans-1,2-Dichloroethene	1	ND		5.12	
78-87-5	1,2-Dichloropropane	1	ND		5.12	
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.12	
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.12	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		256.	
100-41-4	Ethylbenzene	1	ND		5.12	
97-63-2	Ethyl methacrylate	1	ND		10.2	

3/21/2007 16:45:33

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-08 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502331 **Matrix:** Soil **% Moisture:** 21.1 Corrected

Description: None **Prep Level:** Soil **Batch:** 82550

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/19/07 **Analyzed:** 02/19/07 17:32 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		10.2	
74-88-4	Iodomethane	1	ND		5.12	
78-83-1	Isobutanol	1	ND		256.	
126-98-7	Methacrylonitrile	1	ND		102.	
75-09-2	Methylene chloride	1	ND	A11	5.12	
80-62-6	Methyl methacrylate	1	ND		10.2	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.2	
107-12-0	Propionitrile	1	ND		20.5	
100-42-5	Styrene	1	ND		5.12	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.12	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.12	
127-18-4	Tetrachloroethene	1	ND		5.12	
108-88-3	Toluene	1	5.64		5.12	
71-55-6	1,1,1-Trichloroethane	1	ND		5.12	
79-00-5	1,1,2-Trichloroethane	1	ND		5.12	
79-01-6	Trichloroethene	1	ND		5.12	
75-69-4	Trichlorofluoromethane	1	ND		5.12	
96-18-4	1,2,3-Trichloropropane	1	ND		5.12	
95-63-6	1,2,4-Trimethylbenzene	1	ND		5.12	
108-67-8	1,3,5-Trimethylbenzene	1	ND		5.12	
108-05-4	Vinyl acetate	1	ND		10.2	
75-01-4	Vinyl chloride	1	ND		5.12	
	m&p-Xylene	1	ND		5.12	
95-47-6	o-Xylene	1	ND		5.12	

57 compound(s) reported

3/21/2007 16:45:33

ND denotes Not Detected at or above the adjusted reporting limit.
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Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health .Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

Pace Analytical
New Orleans Laboratory

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-08 (2-4)
Site: None
Project: MS BLUFFS/LA002656.0001 & 12
Project No.: 2066873
Sample Qu:
Lab ID: 20502331
Matrix: Soil
% Moisture: 21.1 Corrected
Description: None
Prep Level: Soil
Batch: 82735
Method: 8270 SVOAs Low Soil
Units: ug/kg
Target List: 8270_SL20
Collected: 02/13/07
Received: 02/15/07
Prep Factor: 1
Prepared: 02/27/07
Analyzed: 03/09/07 18:47 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		422.	
1912-24-9	Atrazine	1	ND		422.	
21725-46-2	Cyanazine	1	ND		422.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		422.	
100-02-7	4-Nitrophenol	1	ND		422.	
87-86-5	Pentachlorophenol	1	ND		422.	

6 compound(s) reported

3/21/2007 16:45:33

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-09 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502332 **Matrix:** Soil **% Moisture:** 25.5 Corrected

Description: None **Prep Level:** Soil **Batch:** 82550

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/19/07 **Analyzed:** 02/19/07 17:51 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	11.1	
75-05-8	Acetonitrile	1	ND		111.	
107-02-8	Acrolein	1	ND		22.1	
107-13-1	Acrylonitrile	1	ND		22.1	
107-05-1	Allyl chloride	1	ND		11.1	
71-43-2	Benzene	1	ND		5.53	
75-27-4	Bromodichloromethane	1	ND		5.53	
75-25-2	Bromoform	1	ND		5.53	
74-83-9	Bromomethane	1	ND		5.53	
78-93-3	2-Butanone (MEK)	1	ND	A11	11.1	
75-15-0	Carbon disulfide	1	ND		5.53	
56-23-5	Carbon tetrachloride	1	ND		5.53	
108-90-7	Chlorobenzene	1	ND		5.53	
75-00-3	Chloroethane	1	ND		5.53	
67-66-3	Chloroform	1	ND		5.53	
74-87-3	Chloromethane	1	ND		5.53	
126-99-8	Chloroprene	1	ND		5.53	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.53	
124-48-1	Dibromochloromethane	1	ND		5.53	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		5.53	
74-95-3	Dibromomethane	1	ND		5.53	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		5.53	
75-71-8	Dichlorodifluoromethane	1	ND		5.53	
75-34-3	1,1-Dichloroethane	1	ND		5.53	
107-06-2	1,2-Dichloroethane	1	ND		5.53	
75-35-4	1,1-Dichloroethene	1	ND		5.53	
156-60-5	trans-1,2-Dichloroethene	1	ND		5.53	
78-87-5	1,2-Dichloropropane	1	ND		5.53	
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.53	
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.53	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		276.	
100-41-4	Ethylbenzene	1	ND		5.53	
97-63-2	Ethyl methacrylate	1	ND		11.1	

3/21/2007 16:45:33

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-09 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502332 **Matrix:** Soil **% Moisture:** 25.5 Corrected

Description: None **Prep Level:** Soil **Batch:** 82550

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/19/07 **Analyzed:** 02/19/07 17:51 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		11.1	
74-88-4	Iodomethane	1	ND		5.53	
78-83-1	Isobutanol	1	ND		276.	
126-98-7	Methacrylonitrile	1	ND		111.	
75-09-2	Methylene chloride	1	ND	A11	5.53	
80-62-6	Methyl methacrylate	1	ND		11.1	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		11.1	
107-12-0	Propionitrile	1	ND		22.1	
100-42-5	Styrene	1	ND		5.53	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.53	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.53	
127-18-4	Tetrachloroethene	1	ND		5.53	
108-88-3	Toluene	1	8.09		5.53	
71-55-6	1,1,1-Trichloroethane	1	ND		5.53	
79-00-5	1,1,2-Trichloroethane	1	ND		5.53	
79-01-6	Trichloroethene	1	ND		5.53	
75-69-4	Trichlorofluoromethane	1	ND		5.53	
96-18-4	1,2,3-Trichloropropane	1	ND		5.53	
95-63-6	1,2,4-Trimethylbenzene	1	ND		5.53	
108-67-8	1,3,5-Trimethylbenzene	1	ND		5.53	
108-05-4	Vinyl acetate	1	ND		11.1	
75-01-4	Vinyl chloride	1	ND		5.53	
	m&p-Xylene	1	ND		5.53	
95-47-6	o-Xylene	1	ND		5.53	

57 compound(s) reported

3/21/2007 16:45:33

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-09 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502332 **Matrix:** Soil **% Moisture:** 25.5 Corrected

Description: None **Prep Level:** Soil **Batch:** 82735

Method: 8270 SVOAs Low Soil **Units:** ug/kg **Target List:** 8270_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/27/07 **Analyzed:** 03/09/07 19:15 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		447.	
1912-24-9	Atrazine	1	ND		447.	
21725-46-2	Cyanazine	1	ND		447.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		447.	
100-02-7	4-Nitrophenol	1	ND		447.	
87-86-5	Pentachlorophenol	1	ND		447.	

6 compound(s) reported

3/21/2007 16:45:33

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-09 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502333 **Matrix:** Soil **% Moisture:** 10.8 Corrected

Description: None **Prep Level:** Soil **Batch:** 82550

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/19/07 **Analyzed:** 02/19/07 18:10 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	9.81	
75-05-8	Acetonitrile	1	ND		98.1	
107-02-8	Acrolein	1	ND		19.6	
107-13-1	Acrylonitrile	1	ND		19.6	
107-05-1	Allyl chloride	1	ND		9.81	
71-43-2	Benzene	1	ND		4.90	
75-27-4	Bromodichloromethane	1	ND		4.90	
75-25-2	Bromoform	1	ND		4.90	
74-83-9	Bromomethane	1	ND		4.90	
78-93-3	2-Butanone (MEK)	1	ND	A11	9.81	
75-15-0	Carbon disulfide	1	ND		4.90	
56-23-5	Carbon tetrachloride	1	ND		4.90	
108-90-7	Chlorobenzene	1	ND		4.90	
75-00-3	Chloroethane	1	ND		4.90	
67-66-3	Chloroform	1	ND		4.90	
74-87-3	Chloromethane	1	ND		4.90	
126-99-8	Chloroprene	1	ND		4.90	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		4.90	
124-48-1	Dibromochloromethane	1	ND		4.90	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		4.90	
74-95-3	Dibromomethane	1	ND		4.90	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		4.90	
75-71-8	Dichlorodifluoromethane	1	ND		4.90	
75-34-3	1,1-Dichloroethane	1	ND		4.90	
107-06-2	1,2-Dichloroethane	1	ND		4.90	
75-35-4	1,1-Dichloroethene	1	ND		4.90	
156-60-5	trans-1,2-Dichloroethene	1	ND		4.90	
78-87-5	1,2-Dichloropropane	1	ND		4.90	
10061-01-5	cis-1,3-Dichloropropene	1	ND		4.90	
10061-02-6	trans-1,3-Dichloropropene	1	ND		4.90	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		245.	
100-41-4	Ethylbenzene	1	ND		4.90	
97-63-2	Ethyl methacrylate	1	ND		9.81	

3/21/2007 16:45:33

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-09 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502333 **Matrix:** Soil **% Moisture:** 10.8 Corrected

Description: None **Prep Level:** Soil **Batch:** 82550

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/19/07 **Analyzed:** 02/19/07 18:10 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		9.81	
74-88-4	Iodomethane	1	ND		4.90	
78-83-1	Isobutanol	1	ND		245.	
126-98-7	Methacrylonitrile	1	ND		98.1	
75-09-2	Methylene chloride	1	ND	A11	4.90	
80-62-6	Methyl methacrylate	1	ND		9.81	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		9.81	
107-12-0	Propionitrile	1	ND		19.6	
100-42-5	Styrene	1	ND		4.90	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		4.90	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		4.90	
127-18-4	Tetrachloroethene	1	ND		4.90	
108-88-3	Toluene	1	6.69		4.90	
71-55-6	1,1,1-Trichloroethane	1	ND		4.90	
79-00-5	1,1,2-Trichloroethane	1	ND		4.90	
79-01-6	Trichloroethene	1	ND		4.90	
75-69-4	Trichlorofluoromethane	1	ND		4.90	
96-18-4	1,2,3-Trichloropropane	1	ND		4.90	
95-63-6	1,2,4-Trimethylbenzene	1	ND		4.90	
108-67-8	1,3,5-Trimethylbenzene	1	ND		4.90	
108-05-4	Vinyl acetate	1	ND		9.81	
75-01-4	Vinyl chloride	1	ND		4.90	
	m&p-Xylene	1	ND		4.90	
95-47-6	o-Xylene	1	ND		4.90	

57 compound(s) reported

3/21/2007 16:45:34

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-09 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502333 **Matrix:** Soil **% Moisture:** 10.8 Corrected

Description: None **Prep Level:** Soil **Batch:** 82735

Method: 8270 SVOAs Low Soil **Units:** ug/kg **Target List:** 8270_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/27/07 **Analyzed:** 03/09/07 19:43 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		374.	
1912-24-9	Atrazine	1	ND		374.	
21725-46-2	Cyanazine	1	ND		374.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		374.	
100-02-7	4-Nitrophenol	1	ND		374.	
87-86-5	Pentachlorophenol	1	ND		374.	

6 compound(s) reported

3/21/2007 16:45:34

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-10 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502334 **Matrix:** Soil **% Moisture:** 20.8 Corrected

Description: None **Prep Level:** Soil **Batch:** 82550

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/19/07 **Analyzed:** 02/19/07 18:29 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	10.5	
75-05-8	Acetonitrile	1	ND		105.	
107-02-8	Acrolein	1	ND		21.0	
107-13-1	Acrylonitrile	1	ND		21.0	
107-05-1	Allyl chloride	1	ND		10.5	
71-43-2	Benzene	1	ND		5.26	
75-27-4	Bromodichloromethane	1	ND		5.26	
75-25-2	Bromoform	1	ND		5.26	
74-83-9	Bromomethane	1	ND		5.26	
78-93-3	2-Butanone (MEK)	1	ND	A11	10.5	
75-15-0	Carbon disulfide	1	ND		5.26	
56-23-5	Carbon tetrachloride	1	ND		5.26	
108-90-7	Chlorobenzene	1	ND		5.26	
75-00-3	Chloroethane	1	ND		5.26	
67-66-3	Chloroform	1	ND		5.26	
74-87-3	Chloromethane	1	ND		5.26	
126-99-8	Chloroprene	1	ND		5.26	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.26	
124-48-1	Dibromochloromethane	1	ND		5.26	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		5.26	
74-95-3	Dibromomethane	1	ND		5.26	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		5.26	
75-71-8	Dichlorodifluoromethane	1	ND		5.26	
75-34-3	1,1-Dichloroethane	1	ND		5.26	
107-06-2	1,2-Dichloroethane	1	ND		5.26	
75-35-4	1,1-Dichloroethene	1	ND		5.26	
156-60-5	trans-1,2-Dichloroethene	1	ND		5.26	
78-87-5	1,2-Dichloropropane	1	ND		5.26	
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.26	
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.26	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		263.	
100-41-4	Ethylbenzene	1	ND		5.26	
97-63-2	Ethyl methacrylate	1	ND		10.5	

3/21/2007 16:45:34

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Kansas Dept. of Health .Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

Pace Analytical
New Orleans Laboratory

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-10 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502334 **Matrix:** Soil **% Moisture:** 20.8 Corrected

Description: None **Prep Level:** Soil **Batch:** 82550

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/19/07 **Analyzed:** 02/19/07 18:29 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		10.5	
74-88-4	Iodomethane	1	ND		5.26	
78-83-1	Isobutanol	1	ND		263.	
126-98-7	Methacrylonitrile	1	ND		105.	
75-09-2	Methylene chloride	1	ND	A11	5.26	
80-62-6	Methyl methacrylate	1	ND		10.5	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.5	
107-12-0	Propionitrile	1	ND		21.0	
100-42-5	Styrene	1	ND		5.26	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.26	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.26	
127-18-4	Tetrachloroethene	1	ND		5.26	
108-88-3	Toluene	1	6.67		5.26	
71-55-6	1,1,1-Trichloroethane	1	ND		5.26	
79-00-5	1,1,2-Trichloroethane	1	ND		5.26	
79-01-6	Trichloroethene	1	ND		5.26	
75-69-4	Trichlorofluoromethane	1	ND		5.26	
96-18-4	1,2,3-Trichloropropane	1	ND		5.26	
95-63-6	1,2,4-Trimethylbenzene	1	ND		5.26	
108-67-8	1,3,5-Trimethylbenzene	1	ND		5.26	
108-05-4	Vinyl acetate	1	ND		10.5	
75-01-4	Vinyl chloride	1	ND		5.26	
	m&p-Xylene	1	ND		5.26	
95-47-6	o-Xylene	1	ND		5.26	

57 compound(s) reported

3/21/2007 16:45:34

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-10 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502334 **Matrix:** Soil **% Moisture:** 20.8 Corrected

Description: None **Prep Level:** Soil **Batch:** 82735

Method: 8270 SVOAs Low Soil **Units:** ug/kg **Target List:** 8270_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/27/07 **Analyzed:** 03/09/07 20:11 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		421.	
1912-24-9	Atrazine	1	ND		421.	
21725-46-2	Cyanazine	1	ND		421.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		421.	
100-02-7	4-Nitrophenol	1	ND		421.	
87-86-5	Pentachlorophenol	1	ND		421.	

6 compound(s) reported

3/21/2007 16:45:34

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-10 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502335 **Matrix:** Soil **% Moisture:** 23.6 Corrected

Description: None **Prep Level:** Soil **Batch:** 82550

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/19/07 **Analyzed:** 02/19/07 18:49 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	10.4	
75-05-8	Acetonitrile	1	ND		104.	
107-02-8	Acrolein	1	ND		20.9	
107-13-1	Acrylonitrile	1	ND		20.9	
107-05-1	Allyl chloride	1	ND		10.4	
71-43-2	Benzene	1	ND		5.22	
75-27-4	Bromodichloromethane	1	ND		5.22	
75-25-2	Bromoform	1	ND		5.22	
74-83-9	Bromomethane	1	ND		5.22	
78-93-3	2-Butanone (MEK)	1	ND	A11	10.4	
75-15-0	Carbon disulfide	1	ND		5.22	
56-23-5	Carbon tetrachloride	1	ND		5.22	
108-90-7	Chlorobenzene	1	ND		5.22	
75-00-3	Chloroethane	1	ND		5.22	
67-66-3	Chloroform	1	ND		5.22	
74-87-3	Chloromethane	1	ND		5.22	
126-99-8	Chloroprene	1	ND		5.22	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.22	
124-48-1	Dibromochloromethane	1	ND		5.22	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		5.22	
74-95-3	Dibromomethane	1	ND		5.22	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		5.22	
75-71-8	Dichlorodifluoromethane	1	ND		5.22	
75-34-3	1,1-Dichloroethane	1	ND		5.22	
107-06-2	1,2-Dichloroethane	1	ND		5.22	
75-35-4	1,1-Dichloroethene	1	ND		5.22	
156-60-5	trans-1,2-Dichloroethene	1	ND		5.22	
78-87-5	1,2-Dichloropropane	1	ND		5.22	
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.22	
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.22	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		261.	
100-41-4	Ethylbenzene	1	ND		5.22	
97-63-2	Ethyl methacrylate	1	ND		10.4	

3/21/2007 16:45:34

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-10 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502335 **Matrix:** Soil **% Moisture:** 23.6 Corrected

Description: None **Prep Level:** Soil **Batch:** 82550

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/19/07 **Analyzed:** 02/19/07 18:49 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		10.4	
74-88-4	Iodomethane	1	ND		5.22	
78-83-1	Isobutanol	1	ND		261.	
126-98-7	Methacrylonitrile	1	ND		104.	
75-09-2	Methylene chloride	1	ND	A11	5.22	
80-62-6	Methyl methacrylate	1	ND		10.4	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.4	
107-12-0	Propionitrile	1	ND		20.9	
100-42-5	Styrene	1	ND		5.22	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.22	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.22	
127-18-4	Tetrachloroethene	1	ND		5.22	
108-88-3	Toluene	1	ND		5.22	
71-55-6	1,1,1-Trichloroethane	1	ND		5.22	
79-00-5	1,1,2-Trichloroethane	1	ND		5.22	
79-01-6	Trichloroethene	1	ND		5.22	
75-69-4	Trichlorofluoromethane	1	ND		5.22	
96-18-4	1,2,3-Trichloropropane	1	ND		5.22	
95-63-6	1,2,4-Trimethylbenzene	1	ND		5.22	
108-67-8	1,3,5-Trimethylbenzene	1	ND		5.22	
108-05-4	Vinyl acetate	1	ND		10.4	
75-01-4	Vinyl chloride	1	ND		5.22	
	m&p-Xylene	1	ND		5.22	
95-47-6	o-Xylene	1	ND		5.22	

57 compound(s) reported

3/21/2007 16:45:34

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LELAP # 02006

Pace Analytical® New Orleans Laboratory

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-10 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502335 **Matrix:** Soil **% Moisture:** 23.6 Corrected

Description: None **Prep Level:** Soil **Batch:** 82568

Method: 8270 SVOAs Low Soil **Units:** ug/kg **Target List:** 8270_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/26/07 **Analyzed:** 02/27/07 16:05 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		436.	
1912-24-9	Atrazine	1	ND		436.	
21725-46-2	Cyanazine	1	ND		436.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		436.	
100-02-7	4-Nitrophenol	1	ND		436.	
87-86-5	Pentachlorophenol	1	ND		436.	

6 compound(s) reported

3/21/2007 16:45:35

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-11 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502338 **Matrix:** Soil **% Moisture:** 19.2 Corrected

Description: None **Prep Level:** Soil **Batch:** 82550

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/19/07 **Analyzed:** 02/19/07 19:08 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	9.58	
75-05-8	Acetonitrile	1	ND		95.8	
107-02-8	Acrolein	1	ND		19.2	
107-13-1	Acrylonitrile	1	ND		19.2	
107-05-1	Allyl chloride	1	ND		9.58	
71-43-2	Benzene	1	ND		4.79	
75-27-4	Bromodichloromethane	1	ND		4.79	
75-25-2	Bromoform	1	ND		4.79	
74-83-9	Bromomethane	1	ND		4.79	
78-93-3	2-Butanone (MEK)	1	ND	A11	9.58	
75-15-0	Carbon disulfide	1	ND		4.79	
56-23-5	Carbon tetrachloride	1	5.98		4.79	
108-90-7	Chlorobenzene	1	ND		4.79	
75-00-3	Chloroethane	1	ND		4.79	
67-66-3	Chloroform	1	48.6		4.79	
74-87-3	Chloromethane	1	ND		4.79	
126-99-8	Chloroprene	1	ND		4.79	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		4.79	
124-48-1	Dibromochloromethane	1	ND		4.79	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		4.79	
74-95-3	Dibromomethane	1	ND		4.79	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		4.79	
75-71-8	Dichlorodifluoromethane	1	ND		4.79	
75-34-3	1,1-Dichloroethane	1	ND		4.79	
107-06-2	1,2-Dichloroethane	1	ND		4.79	
75-35-4	1,1-Dichloroethene	1	ND		4.79	
156-60-5	trans-1,2-Dichloroethene	1	ND		4.79	
78-87-5	1,2-Dichloropropane	1	ND		4.79	
10061-01-5	cis-1,3-Dichloropropene	1	ND		4.79	
10061-02-6	trans-1,3-Dichloropropene	1	ND		4.79	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		239.	
100-41-4	Ethylbenzene	1	ND		4.79	
97-63-2	Ethyl methacrylate	1	ND		9.58	

3/21/2007 16:45:35

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-11 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502338 **Matrix:** Soil **% Moisture:** 19.2 Corrected

Description: None **Prep Level:** Soil **Batch:** 82550

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/19/07 **Analyzed:** 02/19/07 19:08 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		9.58	
74-88-4	Iodomethane	1	ND		4.79	
78-83-1	Isobutanol	1	ND		239.	
126-98-7	Methacrylonitrile	1	ND		95.8	
75-09-2	Methylene chloride	1	ND	A11	4.79	
80-62-6	Methyl methacrylate	1	ND		9.58	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		9.58	
107-12-0	Propionitrile	1	ND		19.2	
100-42-5	Styrene	1	ND		4.79	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		4.79	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		4.79	
127-18-4	Tetrachloroethene	1	ND		4.79	
108-88-3	Toluene	1	5.12		4.79	
71-55-6	1,1,1-Trichloroethane	1	ND		4.79	
79-00-5	1,1,2-Trichloroethane	1	ND		4.79	
79-01-6	Trichloroethene	1	ND		4.79	
75-69-4	Trichlorofluoromethane	1	ND		4.79	
96-18-4	1,2,3-Trichloropropane	1	ND		4.79	
95-63-6	1,2,4-Trimethylbenzene	1	ND		4.79	
108-67-8	1,3,5-Trimethylbenzene	1	ND		4.79	
108-05-4	Vinyl acetate	1	ND		9.58	
75-01-4	Vinyl chloride	1	ND		4.79	
	m&p-Xylene	1	ND		4.79	
95-47-6	o-Xylene	1	ND		4.79	

57 compound(s) reported

3/21/2007 16:45:35

ND denotes Not Detected at or above the adjusted reporting limit.
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Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health .Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-11 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502338 **Matrix:** Soil **% Moisture:** 19.2 Corrected

Description: None **Prep Level:** Soil **Batch:** 82863

Method: 8270 SVOAs Low Soil **Units:** ug/kg **Target List:** 8270_SL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/28/07 **Analyzed:** 03/03/07 21:37 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		412.	
1912-24-9	Atrazine	1	ND		412.	
21725-46-2	Cyanazine	1	ND		412.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		412.	
100-02-7	4-Nitrophenol	1	ND		412.	
87-86-5	Pentachlorophenol	1	ND		412.	

6 compound(s) reported

3/21/2007 16:45:35

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-11 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502343 **Matrix:** Soil **% Moisture:** 19.3 Corrected

Description: None **Prep Level:** Soil **Batch:** 82550

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/19/07 **Analyzed:** 02/19/07 19:27 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	9.59	
75-05-8	Acetonitrile	1	ND		95.9	
107-02-8	Acrolein	1	ND		19.2	
107-13-1	Acrylonitrile	1	ND		19.2	
107-05-1	Allyl chloride	1	ND		9.59	
71-43-2	Benzene	1	ND		4.80	
75-27-4	Bromodichloromethane	1	ND		4.80	
75-25-2	Bromoform	1	ND		4.80	
74-83-9	Bromomethane	1	ND		4.80	
78-93-3	2-Butanone (MEK)	1	ND	A11	9.59	
75-15-0	Carbon disulfide	1	ND		4.80	
56-23-5	Carbon tetrachloride	1	7.19		4.80	
108-90-7	Chlorobenzene	1	ND		4.80	
75-00-3	Chloroethane	1	ND		4.80	
67-66-3	Chloroform	1	47.4		4.80	
74-87-3	Chloromethane	1	ND		4.80	
126-99-8	Chloroprene	1	ND		4.80	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		4.80	
124-48-1	Dibromochloromethane	1	ND		4.80	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		4.80	
74-95-3	Dibromomethane	1	ND		4.80	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		4.80	
75-71-8	Dichlorodifluoromethane	1	ND		4.80	
75-34-3	1,1-Dichloroethane	1	ND		4.80	
107-06-2	1,2-Dichloroethane	1	ND		4.80	
75-35-4	1,1-Dichloroethene	1	ND		4.80	
156-60-5	trans-1,2-Dichloroethene	1	ND		4.80	
78-87-5	1,2-Dichloropropane	1	ND		4.80	
10061-01-5	cis-1,3-Dichloropropene	1	ND		4.80	
10061-02-6	trans-1,3-Dichloropropene	1	ND		4.80	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		240.	
100-41-4	Ethylbenzene	1	ND		4.80	
97-63-2	Ethyl methacrylate	1	ND		9.59	

3/21/2007 16:45:35

ND denotes Not Detected at or above the adjusted reporting limit.
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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-11 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502343 **Matrix:** Soil **% Moisture:** 19.3 Corrected

Description: None **Prep Level:** Soil **Batch:** 82550

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/19/07 **Analyzed:** 02/19/07 19:27 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		9.59	
74-88-4	Iodomethane	1	ND		4.80	
78-83-1	Isobutanol	1	ND		240.	
126-98-7	Methacrylonitrile	1	ND		95.9	
75-09-2	Methylene chloride	1	ND	A11	4.80	
80-62-6	Methyl methacrylate	1	ND		9.59	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		9.59	
107-12-0	Propionitrile	1	ND		19.2	
100-42-5	Styrene	1	ND		4.80	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		4.80	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		4.80	
127-18-4	Tetrachloroethene	1	ND		4.80	
108-88-3	Toluene	1	ND		4.80	
71-55-6	1,1,1-Trichloroethane	1	ND		4.80	
79-00-5	1,1,2-Trichloroethane	1	ND		4.80	
79-01-6	Trichloroethene	1	ND		4.80	
75-69-4	Trichlorofluoromethane	1	ND		4.80	
96-18-4	1,2,3-Trichloropropane	1	ND		4.80	
95-63-6	1,2,4-Trimethylbenzene	1	ND		4.80	
108-67-8	1,3,5-Trimethylbenzene	1	ND		4.80	
108-05-4	Vinyl acetate	1	ND		9.59	
75-01-4	Vinyl chloride	1	ND		4.80	
	m&p-Xylene	1	ND		4.80	
95-47-6	o-Xylene	1	ND		4.80	

57 compound(s) reported

3/21/2007 16:45:35

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Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-11 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502343 **Matrix:** Soil **% Moisture:** 19.3 Corrected

Description: None **Prep Level:** Soil **Batch:** 82863

Method: 8270 SVOAs Low Soil **Units:** ug/kg **Target List:** 8270_SL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/28/07 **Analyzed:** 03/03/07 22:06 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		413.	
1912-24-9	Atrazine	1	ND		413.	
21725-46-2	Cyanazine	1	ND		413.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		413.	
100-02-7	4-Nitrophenol	1	ND		413.	
87-86-5	Pentachlorophenol	1	ND		413.	

6 compound(s) reported

3/21/2007 16:45:35

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-12 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502344 **Matrix:** Soil **% Moisture:** 26.6 Corrected

Description: None **Prep Level:** Soil **Batch:** 82551

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/23/07 **Analyzed:** 02/23/07 17:43 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	52.5	A11	11.9	
75-05-8	Acetonitrile	1	ND		119.	
107-02-8	Acrolein	1	ND		23.9	
107-13-1	Acrylonitrile	1	ND		23.9	
107-05-1	Allyl chloride	1	ND		11.9	
71-43-2	Benzene	1	ND		5.97	
75-27-4	Bromodichloromethane	1	ND		5.97	
75-25-2	Bromoform	1	ND		5.97	
74-83-9	Bromomethane	1	ND		5.97	
78-93-3	2-Butanone (MEK)	1	19.5	A11	11.9	
75-15-0	Carbon disulfide	1	ND		5.97	
56-23-5	Carbon tetrachloride	1	ND		5.97	
108-90-7	Chlorobenzene	1	ND		5.97	
75-00-3	Chloroethane	1	ND		5.97	
67-66-3	Chloroform	1	ND		5.97	
74-87-3	Chloromethane	1	ND		5.97	
126-99-8	Chloroprene	1	ND		5.97	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.97	
124-48-1	Dibromochloromethane	1	ND		5.97	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		5.97	
74-95-3	Dibromomethane	1	ND		5.97	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		5.97	
75-71-8	Dichlorodifluoromethane	1	ND		5.97	
75-34-3	1,1-Dichloroethane	1	ND		5.97	
107-06-2	1,2-Dichloroethane	1	ND		5.97	
75-35-4	1,1-Dichloroethene	1	ND		5.97	
156-60-5	trans-1,2-Dichloroethene	1	ND		5.97	
78-87-5	1,2-Dichloropropane	1	ND		5.97	
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.97	
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.97	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		298.	
100-41-4	Ethylbenzene	1	ND		5.97	
97-63-2	Ethyl methacrylate	1	ND		11.9	

3/21/2007 16:45:35

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-12 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502344 **Matrix:** Soil **% Moisture:** 26.6 Corrected

Description: None **Prep Level:** Soil **Batch:** 82551

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/23/07 **Analyzed:** 02/23/07 17:43 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		11.9	
74-88-4	Iodomethane	1	ND		5.97	
78-83-1	Isobutanol	1	ND		298.	
126-98-7	Methacrylonitrile	1	ND		119.	
75-09-2	Methylene chloride	1	ND	A11	5.97	
80-62-6	Methyl methacrylate	1	ND		11.9	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		11.9	
107-12-0	Propionitrile	1	ND		23.9	
100-42-5	Styrene	1	ND		5.97	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.97	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.97	
127-18-4	Tetrachloroethene	1	ND		5.97	
108-88-3	Toluene	1	ND		5.97	
71-55-6	1,1,1-Trichloroethane	1	ND		5.97	
79-00-5	1,1,2-Trichloroethane	1	ND		5.97	
79-01-6	Trichloroethene	1	ND		5.97	
75-69-4	Trichlorofluoromethane	1	ND		5.97	
96-18-4	1,2,3-Trichloropropane	1	ND		5.97	
95-63-6	1,2,4-Trimethylbenzene	1	ND		5.97	
108-67-8	1,3,5-Trimethylbenzene	1	ND		5.97	
108-05-4	Vinyl acetate	1	ND		11.9	
75-01-4	Vinyl chloride	1	ND		5.97	
	m&p-Xylene	1	ND		5.97	
95-47-6	o-Xylene	1	ND		5.97	

57 compound(s) reported

3/21/2007 16:45:36

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-12 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502344 **Matrix:** Soil **% Moisture:** 26.6 Corrected

Description: None **Prep Level:** Soil **Batch:** 82863

Method: 8270 SVOAs Low Soil **Units:** ug/kg **Target List:** 8270_SL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/28/07 **Analyzed:** 03/04/07 01:02 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		454.	
1912-24-9	Atrazine	1	ND		454.	
21725-46-2	Cyanazine	1	ND		454.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		454.	
100-02-7	4-Nitrophenol	1	ND		454.	
87-86-5	Pentachlorophenol	1	ND		454.	

6 compound(s) reported

3/21/2007 16:45:36

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-12 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502383 **Matrix:** Soil **% Moisture:** 27.7 Corrected

Description: None **Prep Level:** Soil **Batch:** 82551

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/23/07 **Analyzed:** 02/23/07 18:02 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	57.0	A11	13.0	
75-05-8	Acetonitrile	1	ND		130.	
107-02-8	Acrolein	1	ND		26.0	
107-13-1	Acrylonitrile	1	ND		26.0	
107-05-1	Allyl chloride	1	ND		13.0	
71-43-2	Benzene	1	ND		6.50	
75-27-4	Bromodichloromethane	1	ND		6.50	
75-25-2	Bromoform	1	ND		6.50	
74-83-9	Bromomethane	1	ND		6.50	
78-93-3	2-Butanone (MEK)	1	20.0	A11	13.0	
75-15-0	Carbon disulfide	1	ND		6.50	
56-23-5	Carbon tetrachloride	1	ND		6.50	
108-90-7	Chlorobenzene	1	ND		6.50	
75-00-3	Chloroethane	1	ND		6.50	
67-66-3	Chloroform	1	ND		6.50	
74-87-3	Chloromethane	1	ND		6.50	
126-99-8	Chloroprene	1	ND		6.50	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		6.50	
124-48-1	Dibromochloromethane	1	ND		6.50	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		6.50	
74-95-3	Dibromomethane	1	ND		6.50	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		6.50	
75-71-8	Dichlorodifluoromethane	1	ND		6.50	
75-34-3	1,1-Dichloroethane	1	ND		6.50	
107-06-2	1,2-Dichloroethane	1	ND		6.50	
75-35-4	1,1-Dichloroethene	1	ND		6.50	
156-60-5	trans-1,2-Dichloroethene	1	ND		6.50	
78-87-5	1,2-Dichloropropane	1	ND		6.50	
10061-01-5	cis-1,3-Dichloropropene	1	ND		6.50	
10061-02-6	trans-1,3-Dichloropropene	1	ND		6.50	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		325.	
100-41-4	Ethylbenzene	1	ND		6.50	
97-63-2	Ethyl methacrylate	1	ND		13.0	

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Kansas Dept. of Health Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-12 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502383 **Matrix:** Soil **% Moisture:** 27.7 Corrected

Description: None **Prep Level:** Soil **Batch:** 82551

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/23/07 **Analyzed:** 02/23/07 18:02 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		13.0	
74-88-4	Iodomethane	1	ND		6.50	
78-83-1	Isobutanol	1	ND		325.	
126-98-7	Methacrylonitrile	1	ND		130.	
75-09-2	Methylene chloride	1	ND	A11	6.50	
80-62-6	Methyl methacrylate	1	ND		13.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		13.0	
107-12-0	Propionitrile	1	ND		26.0	
100-42-5	Styrene	1	ND		6.50	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		6.50	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		6.50	
127-18-4	Tetrachloroethene	1	ND		6.50	
108-88-3	Toluene	1	ND		6.50	
71-55-6	1,1,1-Trichloroethane	1	ND		6.50	
79-00-5	1,1,2-Trichloroethane	1	ND		6.50	
79-01-6	Trichloroethene	1	ND		6.50	
75-69-4	Trichlorofluoromethane	1	ND		6.50	
96-18-4	1,2,3-Trichloropropane	1	ND		6.50	
95-63-6	1,2,4-Trimethylbenzene	1	ND		6.50	
108-67-8	1,3,5-Trimethylbenzene	1	ND		6.50	
108-05-4	Vinyl acetate	1	ND		13.0	
75-01-4	Vinyl chloride	1	ND		6.50	
	m&p-Xylene	1	ND		6.50	
95-47-6	o-Xylene	1	ND		6.50	

57 compound(s) reported

3/21/2007 16:45:36

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-12 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502383 **Matrix:** Soil **% Moisture:** 27.7 Corrected

Description: None **Prep Level:** Soil **Batch:** 82863

Method: 8270 SVOAs Low Soil **Units:** ug/kg **Target List:** 8270_SL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/28/07 **Analyzed:** 03/04/07 01:31 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		461.	
1912-24-9	Atrazine	1	ND		461.	
21725-46-2	Cyanazine	1	ND		461.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		461.	
100-02-7	4-Nitrophenol	1	ND		461.	
87-86-5	Pentachlorophenol	1	ND		461.	

6 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-13 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502384 **Matrix:** Soil **% Moisture:** 14.6 Corrected

Description: None **Prep Level:** Soil **Batch:** 82551

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/23/07 **Analyzed:** 02/23/07 18:21 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	9.41	
75-05-8	Acetonitrile	1	ND		94.1	
107-02-8	Acrolein	1	ND		18.8	
107-13-1	Acrylonitrile	1	ND		18.8	
107-05-1	Allyl chloride	1	ND		9.41	
71-43-2	Benzene	1	ND		4.71	
75-27-4	Bromodichloromethane	1	ND		4.71	
75-25-2	Bromoform	1	ND		4.71	
74-83-9	Bromomethane	1	ND		4.71	
78-93-3	2-Butanone (MEK)	1	ND	A11	9.41	
75-15-0	Carbon disulfide	1	ND		4.71	
56-23-5	Carbon tetrachloride	1	ND		4.71	
108-90-7	Chlorobenzene	1	ND		4.71	
75-00-3	Chloroethane	1	ND		4.71	
67-66-3	Chloroform	1	ND		4.71	
74-87-3	Chloromethane	1	ND		4.71	
126-99-8	Chloroprene	1	ND		4.71	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		4.71	
124-48-1	Dibromochloromethane	1	ND		4.71	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		4.71	
74-95-3	Dibromomethane	1	ND		4.71	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		4.71	
75-71-8	Dichlorodifluoromethane	1	ND		4.71	
75-34-3	1,1-Dichloroethane	1	ND		4.71	
107-06-2	1,2-Dichloroethane	1	ND		4.71	
75-35-4	1,1-Dichloroethene	1	ND		4.71	
156-60-5	trans-1,2-Dichloroethene	1	ND		4.71	
78-87-5	1,2-Dichloropropane	1	ND		4.71	
10061-01-5	cis-1,3-Dichloropropene	1	ND		4.71	
10061-02-6	trans-1,3-Dichloropropene	1	ND		4.71	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		235.	
100-41-4	Ethylbenzene	1	ND		4.71	
97-63-2	Ethyl methacrylate	1	ND		9.41	

3/21/2007 16:45:36

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-13 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502384 **Matrix:** Soil **% Moisture:** 14.6 Corrected

Description: None **Prep Level:** Soil **Batch:** 82551

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/23/07 **Analyzed:** 02/23/07 18:21 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		9.41	
74-88-4	Iodomethane	1	ND		4.71	
78-83-1	Isobutanol	1	ND		235.	
126-98-7	Methacrylonitrile	1	ND		94.1	
75-09-2	Methylene chloride	1	ND	A11	4.71	
80-62-6	Methyl methacrylate	1	ND		9.41	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		9.41	
107-12-0	Propionitrile	1	ND		18.8	
100-42-5	Styrene	1	ND		4.71	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		4.71	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		4.71	
127-18-4	Tetrachloroethene	1	ND		4.71	
108-88-3	Toluene	1	6.31		4.71	
71-55-6	1,1,1-Trichloroethane	1	ND		4.71	
79-00-5	1,1,2-Trichloroethane	1	ND		4.71	
79-01-6	Trichloroethene	1	ND		4.71	
75-69-4	Trichlorofluoromethane	1	ND		4.71	
96-18-4	1,2,3-Trichloropropane	1	ND		4.71	
95-63-6	1,2,4-Trimethylbenzene	1	ND		4.71	
108-67-8	1,3,5-Trimethylbenzene	1	ND		4.71	
108-05-4	Vinyl acetate	1	ND		9.41	
75-01-4	Vinyl chloride	1	ND		4.71	
	m&p-Xylene	1	ND		4.71	
95-47-6	o-Xylene	1	ND		4.71	

57 compound(s) reported

3/21/2007 16:45:36

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-13 (0-2)
Site: None
Project: MS BLUFFS/LA002656.0001 & 12
Project No.: 2066873
Sample Qu:
Lab ID: 20502384
Matrix: Soil
% Moisture: 14.6 Corrected
Description: None
Prep Level: Soil
Batch: 82863
Method: 8270 SVOAs Low Soil
Units: ug/kg
Target List: 8270_SL20
Collected: 02/14/07
Received: 02/15/07
Prep Factor: 1
Prepared: 02/28/07
Analyzed: 03/03/07 22:35 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		390.	
1912-24-9	Atrazine	1	ND		390.	
21725-46-2	Cyanazine	1	ND		390.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		390.	
100-02-7	4-Nitrophenol	1	ND		390.	
87-86-5	Pentachlorophenol	1	ND		390.	

6 compound(s) reported

3/21/2007 16:45:37

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-13 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502385 **Matrix:** Soil **% Moisture:** 18.7 Corrected

Description: None **Prep Level:** Soil **Batch:** 82551

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/23/07 **Analyzed:** 02/23/07 18:40 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	9.80	
75-05-8	Acetonitrile	1	ND		98.0	
107-02-8	Acrolein	1	ND		19.6	
107-13-1	Acrylonitrile	1	ND		19.6	
107-05-1	Allyl chloride	1	ND		9.80	
71-43-2	Benzene	1	ND		4.90	
75-27-4	Bromodichloromethane	1	ND		4.90	
75-25-2	Bromoform	1	ND		4.90	
74-83-9	Bromomethane	1	ND		4.90	
78-93-3	2-Butanone (MEK)	1	ND	A11	9.80	
75-15-0	Carbon disulfide	1	ND		4.90	
56-23-5	Carbon tetrachloride	1	ND		4.90	
108-90-7	Chlorobenzene	1	ND		4.90	
75-00-3	Chloroethane	1	ND		4.90	
67-66-3	Chloroform	1	ND		4.90	
74-87-3	Chloromethane	1	ND		4.90	
126-99-8	Chloroprene	1	ND		4.90	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		4.90	
124-48-1	Dibromochloromethane	1	ND		4.90	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		4.90	
74-95-3	Dibromomethane	1	ND		4.90	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		4.90	
75-71-8	Dichlorodifluoromethane	1	ND		4.90	
75-34-3	1,1-Dichloroethane	1	ND		4.90	
107-06-2	1,2-Dichloroethane	1	ND		4.90	
75-35-4	1,1-Dichloroethene	1	ND		4.90	
156-60-5	trans-1,2-Dichloroethene	1	ND		4.90	
78-87-5	1,2-Dichloropropane	1	ND		4.90	
10061-01-5	cis-1,3-Dichloropropene	1	ND		4.90	
10061-02-6	trans-1,3-Dichloropropene	1	ND		4.90	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		245.	
100-41-4	Ethylbenzene	1	ND		4.90	
97-63-2	Ethyl methacrylate	1	ND		9.80	

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-13 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502385 **Matrix:** Soil **% Moisture:** 18.7 Corrected

Description: None **Prep Level:** Soil **Batch:** 82551

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/23/07 **Analyzed:** 02/23/07 18:40 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		9.80	
74-88-4	Iodomethane	1	ND		4.90	
78-83-1	Isobutanol	1	ND		245.	
126-98-7	Methacrylonitrile	1	ND		98.0	
75-09-2	Methylene chloride	1	ND	A11	4.90	
80-62-6	Methyl methacrylate	1	ND		9.80	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		9.80	
107-12-0	Propionitrile	1	ND		19.6	
100-42-5	Styrene	1	ND		4.90	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		4.90	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		4.90	
127-18-4	Tetrachloroethene	1	ND		4.90	
108-88-3	Toluene	1	ND		4.90	
71-55-6	1,1,1-Trichloroethane	1	ND		4.90	
79-00-5	1,1,2-Trichloroethane	1	ND		4.90	
79-01-6	Trichloroethene	1	ND		4.90	
75-69-4	Trichlorofluoromethane	1	ND		4.90	
96-18-4	1,2,3-Trichloropropane	1	ND		4.90	
95-63-6	1,2,4-Trimethylbenzene	1	ND		4.90	
108-67-8	1,3,5-Trimethylbenzene	1	ND		4.90	
108-05-4	Vinyl acetate	1	ND		9.80	
75-01-4	Vinyl chloride	1	ND		4.90	
	m&p-Xylene	1	ND		4.90	
95-47-6	o-Xylene	1	ND		4.90	

57 compound(s) reported

3/21/2007 16:45:37

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Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health .Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

Pace Analytical
New Orleans Laboratory

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-13 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502385 **Matrix:** Soil **% Moisture:** 18.7 Corrected

Description: None **Prep Level:** Soil **Batch:** 82863

Method: 8270 SVOAs Low Soil **Units:** ug/kg **Target List:** 8270_SL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/28/07 **Analyzed:** 03/03/07 23:04 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		410.	
1912-24-9	Atrazine	1	ND		410.	
21725-46-2	Cyanazine	1	ND		410.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		410.	
100-02-7	4-Nitrophenol	1	ND		410.	
87-86-5	Pentachlorophenol	1	ND		410.	

6 compound(s) reported

3/21/2007 16:45:37

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-14 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502386 **Matrix:** Soil **% Moisture:** 17.7 Corrected

Description: None **Prep Level:** Soil **Batch:** 82551

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/23/07 **Analyzed:** 02/23/07 18:59 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	13.1	A11	9.40	
75-05-8	Acetonitrile	1	ND		94.0	
107-02-8	Acrolein	1	ND		18.8	
107-13-1	Acrylonitrile	1	ND		18.8	
107-05-1	Allyl chloride	1	ND		9.40	
71-43-2	Benzene	1	ND		4.70	
75-27-4	Bromodichloromethane	1	ND		4.70	
75-25-2	Bromoform	1	ND		4.70	
74-83-9	Bromomethane	1	ND		4.70	
78-93-3	2-Butanone (MEK)	1	ND	A11	9.40	
75-15-0	Carbon disulfide	1	ND		4.70	
56-23-5	Carbon tetrachloride	1	ND		4.70	
108-90-7	Chlorobenzene	1	ND		4.70	
75-00-3	Chloroethane	1	ND		4.70	
67-66-3	Chloroform	1	ND		4.70	
74-87-3	Chloromethane	1	ND		4.70	
126-99-8	Chloroprene	1	ND		4.70	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		4.70	
124-48-1	Dibromochloromethane	1	ND		4.70	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		4.70	
74-95-3	Dibromomethane	1	ND		4.70	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		4.70	
75-71-8	Dichlorodifluoromethane	1	ND		4.70	
75-34-3	1,1-Dichloroethane	1	ND		4.70	
107-06-2	1,2-Dichloroethane	1	ND		4.70	
75-35-4	1,1-Dichloroethene	1	ND		4.70	
156-60-5	trans-1,2-Dichloroethene	1	ND		4.70	
78-87-5	1,2-Dichloropropane	1	ND		4.70	
10061-01-5	cis-1,3-Dichloropropene	1	ND		4.70	
10061-02-6	trans-1,3-Dichloropropene	1	ND		4.70	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		235.	
100-41-4	Ethylbenzene	1	ND		4.70	
97-63-2	Ethyl methacrylate	1	ND		9.40	

3/21/2007 16:45:37

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1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-14 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502386 **Matrix:** Soil **% Moisture:** 17.7 Corrected

Description: None **Prep Level:** Soil **Batch:** 82551

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/23/07 **Analyzed:** 02/23/07 18:59 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		9.40	
74-88-4	Iodomethane	1	ND		4.70	
78-83-1	Isobutanol	1	ND		235.	
126-98-7	Methacrylonitrile	1	ND		94.0	
75-09-2	Methylene chloride	1	ND	A11	4.70	
80-62-6	Methyl methacrylate	1	ND		9.40	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		9.40	
107-12-0	Propionitrile	1	ND		18.8	
100-42-5	Styrene	1	ND		4.70	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		4.70	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		4.70	
127-18-4	Tetrachloroethene	1	ND		4.70	
108-88-3	Toluene	1	ND		4.70	
71-55-6	1,1,1-Trichloroethane	1	ND		4.70	
79-00-5	1,1,2-Trichloroethane	1	ND		4.70	
79-01-6	Trichloroethene	1	ND		4.70	
75-69-4	Trichlorofluoromethane	1	ND		4.70	
96-18-4	1,2,3-Trichloropropane	1	ND		4.70	
95-63-6	1,2,4-Trimethylbenzene	1	ND		4.70	
108-67-8	1,3,5-Trimethylbenzene	1	ND		4.70	
108-05-4	Vinyl acetate	1	ND		9.40	
75-01-4	Vinyl chloride	1	ND		4.70	
	m&p-Xylene	1	ND		4.70	
95-47-6	o-Xylene	1	ND		4.70	

57 compound(s) reported

3/21/2007 16:45:37

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Phone: 504.469.0333
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LELAP # 02006

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-14 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502386 **Matrix:** Soil **% Moisture:** 17.7 Corrected

Description: None **Prep Level:** Soil **Batch:** 82863

Method: 8270 SVOAs Low Soil **Units:** ug/kg **Target List:** 8270_SL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/28/07 **Analyzed:** 03/02/07 23:27 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		404.	
1912-24-9	Atrazine	1	ND		404.	
21725-46-2	Cyanazine	1	ND		404.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		404.	
100-02-7	4-Nitrophenol	1	ND		404.	
87-86-5	Pentachlorophenol	1	ND		404.	

6 compound(s) reported

3/21/2007 16:45:37

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-14 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502387 **Matrix:** Soil **% Moisture:** 17.3 Corrected

Description: None **Prep Level:** Soil **Batch:** 82551

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/23/07 **Analyzed:** 02/23/07 19:18 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	10.0	
75-05-8	Acetonitrile	1	ND		100.	
107-02-8	Acrolein	1	ND		20.1	
107-13-1	Acrylonitrile	1	ND		20.1	
107-05-1	Allyl chloride	1	ND		10.0	
71-43-2	Benzene	1	ND		5.01	
75-27-4	Bromodichloromethane	1	ND		5.01	
75-25-2	Bromoform	1	ND		5.01	
74-83-9	Bromomethane	1	ND		5.01	
78-93-3	2-Butanone (MEK)	1	ND	A11	10.0	
75-15-0	Carbon disulfide	1	ND		5.01	
56-23-5	Carbon tetrachloride	1	ND		5.01	
108-90-7	Chlorobenzene	1	ND		5.01	
75-00-3	Chloroethane	1	ND		5.01	
67-66-3	Chloroform	1	ND		5.01	
74-87-3	Chloromethane	1	ND		5.01	
126-99-8	Chloroprene	1	ND		5.01	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.01	
124-48-1	Dibromochloromethane	1	ND		5.01	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		5.01	
74-95-3	Dibromomethane	1	ND		5.01	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		5.01	
75-71-8	Dichlorodifluoromethane	1	ND		5.01	
75-34-3	1,1-Dichloroethane	1	ND		5.01	
107-06-2	1,2-Dichloroethane	1	ND		5.01	
75-35-4	1,1-Dichloroethene	1	ND		5.01	
156-60-5	trans-1,2-Dichloroethene	1	ND		5.01	
78-87-5	1,2-Dichloropropane	1	ND		5.01	
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.01	
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.01	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		251.	
100-41-4	Ethylbenzene	1	ND		5.01	
97-63-2	Ethyl methacrylate	1	ND		10.0	

3/21/2007 16:45:37

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-14 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502387 **Matrix:** Soil **% Moisture:** 17.3 Corrected

Description: None **Prep Level:** Soil **Batch:** 82551

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/23/07 **Analyzed:** 02/23/07 19:18 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		10.0	
74-88-4	Iodomethane	1	ND		5.01	
78-83-1	Isobutanol	1	ND		251.	
126-98-7	Methacrylonitrile	1	ND		100.	
75-09-2	Methylene chloride	1	ND	A11	5.01	
80-62-6	Methyl methacrylate	1	ND		10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0	
107-12-0	Propionitrile	1	ND		20.1	
100-42-5	Styrene	1	ND		5.01	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.01	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.01	
127-18-4	Tetrachloroethene	1	ND		5.01	
108-88-3	Toluene	1	5.40		5.01	
71-55-6	1,1,1-Trichloroethane	1	ND		5.01	
79-00-5	1,1,2-Trichloroethane	1	ND		5.01	
79-01-6	Trichloroethene	1	ND		5.01	
75-69-4	Trichlorofluoromethane	1	ND		5.01	
96-18-4	1,2,3-Trichloropropane	1	ND		5.01	
95-63-6	1,2,4-Trimethylbenzene	1	ND		5.01	
108-67-8	1,3,5-Trimethylbenzene	1	ND		5.01	
108-05-4	Vinyl acetate	1	ND		10.0	
75-01-4	Vinyl chloride	1	ND		5.01	
	m&p-Xylene	1	ND		5.01	
95-47-6	o-Xylene	1	ND		5.01	

57 compound(s) reported

3/21/2007 16:45:38

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-14 (2-4)
Site: None
Project: MS BLUFFS/LA002656.0001 & 12
Project No.: 2066873
Sample Qu:
Lab ID: 20502387
Matrix: Soil
% Moisture: 17.3 Corrected
Description: None
Prep Level: Soil
Batch: 82863
Method: 8270 SVOAs Low Soil
Units: ug/kg
Target List: 8270_SL20
Collected: 02/14/07
Received: 02/15/07
Prep Factor: 1
Prepared: 02/28/07
Analyzed: 03/02/07 21:05 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		403.	
1912-24-9	Atrazine	1	ND		403.	
21725-46-2	Cyanazine	1	ND		403.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		403.	
100-02-7	4-Nitrophenol	1	ND		403.	
87-86-5	Pentachlorophenol	1	ND		403.	

6 compound(s) reported

3/21/2007 16:45:38

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-15 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502388 **Matrix:** Soil **% Moisture:** 16.9 Corrected

Description: None **Prep Level:** Soil **Batch:** 82551

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/23/07 **Analyzed:** 02/23/07 19:37 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	18.8	A11	9.60	
75-05-8	Acetonitrile	1	ND		96.0	
107-02-8	Acrolein	1	ND		19.2	
107-13-1	Acrylonitrile	1	ND		19.2	
107-05-1	Allyl chloride	1	ND		9.60	
71-43-2	Benzene	1	ND		4.80	
75-27-4	Bromodichloromethane	1	ND		4.80	
75-25-2	Bromoform	1	ND		4.80	
74-83-9	Bromomethane	1	ND		4.80	
78-93-3	2-Butanone (MEK)	1	ND	A11	9.60	
75-15-0	Carbon disulfide	1	ND		4.80	
56-23-5	Carbon tetrachloride	1	ND		4.80	
108-90-7	Chlorobenzene	1	ND		4.80	
75-00-3	Chloroethane	1	ND		4.80	
67-66-3	Chloroform	1	ND		4.80	
74-87-3	Chloromethane	1	ND		4.80	
126-99-8	Chloroprene	1	ND		4.80	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		4.80	
124-48-1	Dibromochloromethane	1	ND		4.80	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		4.80	
74-95-3	Dibromomethane	1	ND		4.80	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		4.80	
75-71-8	Dichlorodifluoromethane	1	ND		4.80	
75-34-3	1,1-Dichloroethane	1	ND		4.80	
107-06-2	1,2-Dichloroethane	1	ND		4.80	
75-35-4	1,1-Dichloroethene	1	ND		4.80	
156-60-5	trans-1,2-Dichloroethene	1	ND		4.80	
78-87-5	1,2-Dichloropropane	1	ND		4.80	
10061-01-5	cis-1,3-Dichloropropene	1	ND		4.80	
10061-02-6	trans-1,3-Dichloropropene	1	ND		4.80	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		240.	
100-41-4	Ethylbenzene	1	ND		4.80	
97-63-2	Ethyl methacrylate	1	ND		9.60	

3/21/2007 16:45:38

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-15 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502388 **Matrix:** Soil **% Moisture:** 16.9 Corrected

Description: None **Prep Level:** Soil **Batch:** 82551

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/23/07 **Analyzed:** 02/23/07 19:37 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		9.60	
74-88-4	Iodomethane	1	ND		4.80	
78-83-1	Isobutanol	1	ND		240.	
126-98-7	Methacrylonitrile	1	ND		96.0	
75-09-2	Methylene chloride	1	ND	A11	4.80	
80-62-6	Methyl methacrylate	1	ND		9.60	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		9.60	
107-12-0	Propionitrile	1	ND		19.2	
100-42-5	Styrene	1	ND		4.80	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		4.80	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		4.80	
127-18-4	Tetrachloroethene	1	ND		4.80	
108-88-3	Toluene	1	5.62		4.80	
71-55-6	1,1,1-Trichloroethane	1	ND		4.80	
79-00-5	1,1,2-Trichloroethane	1	ND		4.80	
79-01-6	Trichloroethene	1	ND		4.80	
75-69-4	Trichlorofluoromethane	1	ND		4.80	
96-18-4	1,2,3-Trichloropropane	1	ND		4.80	
95-63-6	1,2,4-Trimethylbenzene	1	ND		4.80	
108-67-8	1,3,5-Trimethylbenzene	1	ND		4.80	
108-05-4	Vinyl acetate	1	ND		9.60	
75-01-4	Vinyl chloride	1	ND		4.80	
	m&p-Xylene	1	ND		4.80	
95-47-6	o-Xylene	1	ND		4.80	

57 compound(s) reported

3/21/2007 16:45:38

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-15 (0-2)
Site: None
Project: MS BLUFFS/LA002656.0001 & 12
Project No.: 2066873
Sample Qu:
Lab ID: 20502388
Matrix: Soil
% Moisture: 16.9 Corrected
Description: None
Prep Level: Soil
Batch: 82863
Method: 8270 SVOAs Low Soil
Units: ug/kg
Target List: 8270_SL20
Collected: 02/14/07
Received: 02/15/07
Prep Factor: 1
Prepared: 02/28/07
Analyzed: 03/02/07 21:34 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		401.	
1912-24-9	Atrazine	1	ND		401.	
21725-46-2	Cyanazine	1	ND		401.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		401.	
100-02-7	4-Nitrophenol	1	ND		401.	
87-86-5	Pentachlorophenol	1	ND		401.	

6 compound(s) reported

3/21/2007 16:45:38

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-15 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502389 **Matrix:** Soil **% Moisture:** 17.6 Corrected

Description: None **Prep Level:** Soil **Batch:** 82551

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/23/07 **Analyzed:** 02/23/07 19:56 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	9.65	
75-05-8	Acetonitrile	1	ND		96.5	
107-02-8	Acrolein	1	ND		19.3	
107-13-1	Acrylonitrile	1	ND		19.3	
107-05-1	Allyl chloride	1	ND		9.65	
71-43-2	Benzene	1	ND		4.82	
75-27-4	Bromodichloromethane	1	ND		4.82	
75-25-2	Bromoform	1	ND		4.82	
74-83-9	Bromomethane	1	ND		4.82	
78-93-3	2-Butanone (MEK)	1	ND	A11	9.65	
75-15-0	Carbon disulfide	1	ND		4.82	
56-23-5	Carbon tetrachloride	1	ND		4.82	
108-90-7	Chlorobenzene	1	ND		4.82	
75-00-3	Chloroethane	1	ND		4.82	
67-66-3	Chloroform	1	ND		4.82	
74-87-3	Chloromethane	1	ND		4.82	
126-99-8	Chloroprene	1	ND		4.82	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		4.82	
124-48-1	Dibromochloromethane	1	ND		4.82	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		4.82	
74-95-3	Dibromomethane	1	ND		4.82	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		4.82	
75-71-8	Dichlorodifluoromethane	1	ND		4.82	
75-34-3	1,1-Dichloroethane	1	ND		4.82	
107-06-2	1,2-Dichloroethane	1	ND		4.82	
75-35-4	1,1-Dichloroethene	1	ND		4.82	
156-60-5	trans-1,2-Dichloroethene	1	ND		4.82	
78-87-5	1,2-Dichloropropane	1	ND		4.82	
10061-01-5	cis-1,3-Dichloropropene	1	ND		4.82	
10061-02-6	trans-1,3-Dichloropropene	1	ND		4.82	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		241.	
100-41-4	Ethylbenzene	1	ND		4.82	
97-63-2	Ethyl methacrylate	1	ND		9.65	

3/21/2007 16:45:38

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Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-15 (2-4)
Site: None
Project: MS BLUFFS/LA002656.0001 & 12
Project No.: 2066873
Sample Qu:
Lab ID: 20502389
Matrix: Soil
% Moisture: 17.6 Corrected
Description: None
Prep Level: Soil
Batch: 82551
Method: 8260 VOAs Low Soil
Units: ug/kg
Target List: 8260_SL20
Collected: 02/14/07
Received: 02/15/07
Prep Factor: 1
Prepared: 02/23/07
Analyzed: 02/23/07 19:56 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		9.65	
74-88-4	Iodomethane	1	ND		4.82	
78-83-1	Isobutanol	1	ND		241.	
126-98-7	Methacrylonitrile	1	ND		96.5	
75-09-2	Methylene chloride	1	ND	A11	4.82	
80-62-6	Methyl methacrylate	1	ND		9.65	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		9.65	
107-12-0	Propionitrile	1	ND		19.3	
100-42-5	Styrene	1	ND		4.82	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		4.82	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		4.82	
127-18-4	Tetrachloroethene	1	ND		4.82	
108-88-3	Toluene	1	5.08		4.82	
71-55-6	1,1,1-Trichloroethane	1	ND		4.82	
79-00-5	1,1,2-Trichloroethane	1	ND		4.82	
79-01-6	Trichloroethene	1	ND		4.82	
75-69-4	Trichlorofluoromethane	1	ND		4.82	
96-18-4	1,2,3-Trichloropropane	1	ND		4.82	
95-63-6	1,2,4-Trimethylbenzene	1	ND		4.82	
108-67-8	1,3,5-Trimethylbenzene	1	ND		4.82	
108-05-4	Vinyl acetate	1	ND		9.65	
75-01-4	Vinyl chloride	1	ND		4.82	
	m&p-Xylene	1	ND		4.82	
95-47-6	o-Xylene	1	ND		4.82	

57 compound(s) reported

3/21/2007 16:45:38

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-15 (2-4) | **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 | **Project No.:** 2066873 | **Sample Qu:**

Lab ID: 20502389 | **Matrix:** Soil | **% Moisture:** 17.6 Corrected

Description: None | **Prep Level:** Soil | **Batch:** 82863

Method: 8270 SVOAs Low Soil | **Units:** ug/kg | **Target List:** 8270_SL20

Collected: 02/14/07 | **Received:** 02/15/07

Prep Factor: 1 | **Prepared:** 02/28/07 | **Analyzed:** 03/02/07 23:57 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		404.	
1912-24-9	Atrazine	1	ND		404.	
21725-46-2	Cyanazine	1	ND		404.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		404.	
100-02-7	4-Nitrophenol	1	ND		404.	
87-86-5	Pentachlorophenol	1	ND		404.	

6 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-DUP-02 **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502390 **Matrix:** Soil **% Moisture:** 17.4 Corrected

Description: None **Prep Level:** Soil **Batch:** 82551

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/23/07 **Analyzed:** 02/23/07 20:16 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	11.3	A11	9.13	
75-05-8	Acetonitrile	1	ND		91.3	
107-02-8	Acrolein	1	ND		18.3	
107-13-1	Acrylonitrile	1	ND		18.3	
107-05-1	Allyl chloride	1	ND		9.13	
71-43-2	Benzene	1	ND		4.57	
75-27-4	Bromodichloromethane	1	ND		4.57	
75-25-2	Bromoform	1	ND		4.57	
74-83-9	Bromomethane	1	ND		4.57	
78-93-3	2-Butanone (MEK)	1	ND	A11	9.13	
75-15-0	Carbon disulfide	1	ND		4.57	
56-23-5	Carbon tetrachloride	1	ND		4.57	
108-90-7	Chlorobenzene	1	ND		4.57	
75-00-3	Chloroethane	1	ND		4.57	
67-66-3	Chloroform	1	ND		4.57	
74-87-3	Chloromethane	1	ND		4.57	
126-99-8	Chloroprene	1	ND		4.57	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		4.57	
124-48-1	Dibromochloromethane	1	ND		4.57	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		4.57	
74-95-3	Dibromomethane	1	ND		4.57	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		4.57	
75-71-8	Dichlorodifluoromethane	1	ND		4.57	
75-34-3	1,1-Dichloroethane	1	ND		4.57	
107-06-2	1,2-Dichloroethane	1	ND		4.57	
75-35-4	1,1-Dichloroethene	1	ND		4.57	
156-60-5	trans-1,2-Dichloroethene	1	ND		4.57	
78-87-5	1,2-Dichloropropane	1	ND		4.57	
10061-01-5	cis-1,3-Dichloropropene	1	ND		4.57	
10061-02-6	trans-1,3-Dichloropropene	1	ND		4.57	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		228.	
100-41-4	Ethylbenzene	1	ND		4.57	
97-63-2	Ethyl methacrylate	1	ND		9.13	

3/21/2007 16:45:39

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-DUP-02 **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502390 **Matrix:** Soil **% Moisture:** 17.4 Corrected

Description: None **Prep Level:** Soil **Batch:** 82551

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/23/07 **Analyzed:** 02/23/07 20:16 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		9.13	
74-88-4	Iodomethane	1	ND		4.57	
78-83-1	Isobutanol	1	ND		228.	
126-98-7	Methacrylonitrile	1	ND		91.3	
75-09-2	Methylene chloride	1	ND	A11	4.57	
80-62-6	Methyl methacrylate	1	ND		9.13	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		9.13	
107-12-0	Propionitrile	1	ND		18.3	
100-42-5	Styrene	1	ND		4.57	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		4.57	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		4.57	
127-18-4	Tetrachloroethene	1	ND		4.57	
108-88-3	Toluene	1	ND		4.57	
71-55-6	1,1,1-Trichloroethane	1	ND		4.57	
79-00-5	1,1,2-Trichloroethane	1	ND		4.57	
79-01-6	Trichloroethene	1	ND		4.57	
75-69-4	Trichlorofluoromethane	1	ND		4.57	
96-18-4	1,2,3-Trichloropropane	1	ND		4.57	
95-63-6	1,2,4-Trimethylbenzene	1	ND		4.57	
108-67-8	1,3,5-Trimethylbenzene	1	ND		4.57	
108-05-4	Vinyl acetate	1	ND		9.13	
75-01-4	Vinyl chloride	1	ND		4.57	
	m&p-Xylene	1	ND		4.57	
95-47-6	o-Xylene	1	ND		4.57	

57 compound(s) reported

3/21/2007 16:45:39

ND denotes Not Detected at or above the adjusted reporting limit.
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Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health .Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Pace Analytical® New Orleans Laboratory

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-DUP-02 **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502390 **Matrix:** Soil **% Moisture:** 17.4 Corrected

Description: None **Prep Level:** Soil **Batch:** 82863

Method: 8270 SVOAs Low Soil **Units:** ug/kg **Target List:** 8270_SL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/28/07 **Analyzed:** 03/03/07 23:34 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		403.	
1912-24-9	Atrazine	1	ND		403.	
21725-46-2	Cyanazine	1	ND		403.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		403.	
100-02-7	4-Nitrophenol	1	ND		403.	
87-86-5	Pentachlorophenol	1	ND		403.	

6 compound(s) reported

3/21/2007 16:45:39

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-16 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502391 **Matrix:** Soil **% Moisture:** 15.1 Corrected

Description: None **Prep Level:** Soil **Batch:** 82551

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/23/07 **Analyzed:** 02/23/07 20:35 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	10.3	
75-05-8	Acetonitrile	1	ND		103.	
107-02-8	Acrolein	1	ND		20.6	
107-13-1	Acrylonitrile	1	ND		20.6	
107-05-1	Allyl chloride	1	ND		10.3	
71-43-2	Benzene	1	ND		5.15	
75-27-4	Bromodichloromethane	1	ND		5.15	
75-25-2	Bromoform	1	ND		5.15	
74-83-9	Bromomethane	1	ND		5.15	
78-93-3	2-Butanone (MEK)	1	ND	A11	10.3	
75-15-0	Carbon disulfide	1	ND		5.15	
56-23-5	Carbon tetrachloride	1	ND		5.15	
108-90-7	Chlorobenzene	1	ND		5.15	
75-00-3	Chloroethane	1	ND		5.15	
67-66-3	Chloroform	1	ND		5.15	
74-87-3	Chloromethane	1	ND		5.15	
126-99-8	Chloroprene	1	ND		5.15	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.15	
124-48-1	Dibromochloromethane	1	ND		5.15	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		5.15	
74-95-3	Dibromomethane	1	ND		5.15	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		5.15	
75-71-8	Dichlorodifluoromethane	1	ND		5.15	
75-34-3	1,1-Dichloroethane	1	ND		5.15	
107-06-2	1,2-Dichloroethane	1	ND		5.15	
75-35-4	1,1-Dichloroethene	1	ND		5.15	
156-60-5	trans-1,2-Dichloroethene	1	ND		5.15	
78-87-5	1,2-Dichloropropane	1	ND		5.15	
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.15	
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.15	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		257.	
100-41-4	Ethylbenzene	1	ND		5.15	
97-63-2	Ethyl methacrylate	1	ND		10.3	

3/21/2007 16:45:39

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-16 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502391 **Matrix:** Soil **% Moisture:** 15.1 Corrected

Description: None **Prep Level:** Soil **Batch:** 82551

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/23/07 **Analyzed:** 02/23/07 20:35 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		10.3	
74-88-4	Iodomethane	1	ND		5.15	
78-83-1	Isobutanol	1	ND		257.	
126-98-7	Methacrylonitrile	1	ND		103.	
75-09-2	Methylene chloride	1	ND	A11	5.15	
80-62-6	Methyl methacrylate	1	ND		10.3	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.3	
107-12-0	Propionitrile	1	ND		20.6	
100-42-5	Styrene	1	ND		5.15	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.15	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.15	
127-18-4	Tetrachloroethene	1	ND		5.15	
108-88-3	Toluene	1	5.88		5.15	
71-55-6	1,1,1-Trichloroethane	1	ND		5.15	
79-00-5	1,1,2-Trichloroethane	1	ND		5.15	
79-01-6	Trichloroethene	1	ND		5.15	
75-69-4	Trichlorofluoromethane	1	ND		5.15	
96-18-4	1,2,3-Trichloropropane	1	ND		5.15	
95-63-6	1,2,4-Trimethylbenzene	1	ND		5.15	
108-67-8	1,3,5-Trimethylbenzene	1	ND		5.15	
108-05-4	Vinyl acetate	1	ND		10.3	
75-01-4	Vinyl chloride	1	ND		5.15	
	m&p-Xylene	1	ND		5.15	
95-47-6	o-Xylene	1	ND		5.15	

57 compound(s) reported

3/21/2007 16:45:39

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Phone: 504.469.0333
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LELAP # 02006

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-16 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502391 **Matrix:** Soil **% Moisture:** 15.1 Corrected

Description: None **Prep Level:** Soil **Batch:** 82863

Method: 8270 SVOAs Low Soil **Units:** ug/kg **Target List:** 8270_SL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/28/07 **Analyzed:** 03/04/07 02:00 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND	N	392.	
1912-24-9	Atrazine	1	ND	N	392.	
21725-46-2	Cyanazine	1	ND	N	392.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND	N	392.	
100-02-7	4-Nitrophenol	1	ND	N	392.	
87-86-5	Pentachlorophenol	1	ND	N	392.	

6 compound(s) reported

3/21/2007 16:45:39

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-16 (0-2)MS
Site: None
Project: MS BLUFFS/LA002656.0001 & 12
Project No.: 2066873
Sample Qu:
Lab ID: 20502391MS
Matrix: Soil
% Moisture: 15.1 Corrected
Description: None
Prep Level: Soil
Batch: 82551
Method: 8260 VOAs Low Soil MS
Units: ug/kg
Target List: 8260 MSL20
Collected: 02/14/07
Received: 02/15/07
Prep Factor: 1
Prepared: 02/23/07
Analyzed: 02/23/07 20:54 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	61.8	A11	9.20	
75-05-8	Acetonitrile	1	597.		92.0	
107-02-8	Acrolein	1	63.4		18.4	
107-13-1	Acrylonitrile	1	97.9		18.4	
107-05-1	Allyl chloride	1	60.9		9.20	
71-43-2	Benzene	1	29.0		4.60	
75-27-4	Bromodichloromethane	1	26.1		4.60	
75-25-2	Bromoform	1	31.8		4.60	
74-83-9	Bromomethane	1	15.4		4.60	
78-93-3	2-Butanone (MEK)	1	62.7	A11	9.20	
75-15-0	Carbon disulfide	1	27.8		4.60	
56-23-5	Carbon tetrachloride	1	30.7		4.60	
108-90-7	Chlorobenzene	1	29.2		4.60	
75-00-3	Chloroethane	1	30.1		4.60	
67-66-3	Chloroform	1	32.5		4.60	
74-87-3	Chloromethane	1	39.1		4.60	
126-99-8	Chloroprene	1	35.6		4.60	
96-12-8	1,2-Dibromo-3-chloropropane	1	25.2		4.60	
124-48-1	Dibromochloromethane	1	29.7		4.60	
106-93-4	1,2-Dibromoethane (EDB)	1	34.7		4.60	
74-95-3	Dibromomethane	1	28.9		4.60	
95-50-1	1,2-Dichlorobenzene	1	20.2		4.60	
541-73-1	1,3-Dichlorobenzene	1	20.3		4.60	
106-46-7	1,4-Dichlorobenzene	1	20.4		4.60	
110-57-6	trans-1,4-Dichloro-2-butene	1	50.3		4.60	
75-34-3	1,1-Dichloroethane	1	31.4		4.60	
107-06-2	1,2-Dichloroethane	1	28.1		4.60	
75-35-4	1,1-Dichloroethene	1	35.3		4.60	
156-60-5	trans-1,2-Dichloroethene	1	34.4		4.60	
78-87-5	1,2-Dichloropropane	1	27.1		4.60	
10061-01-5	cis-1,3-Dichloropropene	1	27.3		4.60	
10061-02-6	trans-1,3-Dichloropropene	1	26.8		4.60	
123-91-1	1,4-Dioxane (p-Dioxane)	1	3648	Q1	230.	

3/21/2007 16:45:39

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-16 (0-2)MS
Site: None
Project: MS BLUFFS/LA002656.0001 & 12
Project No.: 2066873
Sample Qu:
Lab ID: 20502391MS
Matrix: Soil
% Moisture: 15.1 Corrected
Description: None
Prep Level: Soil
Batch: 82551
Method: 8260 VOAs Low Soil MS
Units: ug/kg
Target List: 8260 MSL20
Collected: 02/14/07
Received: 02/15/07
Prep Factor: 1
Prepared: 02/23/07
Analyzed: 02/23/07 20:54 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
100-41-4	Ethylbenzene	1	28.4		4.60	
97-63-2	Ethyl methacrylate	1	66.9		9.20	
87-68-3	Hexachloro-1,3-butadiene	1	8.44	Q1	4.60	
591-78-6	2-Hexanone	1	50.7		9.20	
74-88-4	Iodomethane	1	39.0		4.60	
78-83-1	Isobutanol	1	2616	Q1	230.	
126-98-7	Methacrylonitrile	1	382.		92.0	
75-09-2	Methylene chloride	1	39.7	A11	4.60	
80-62-6	Methyl methacrylate	1	62.1	Q1	9.20	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	38.8		9.20	
91-20-3	Naphthalene	1	21.3		4.60	
107-12-0	Propionitrile	1	567.		18.4	
100-42-5	Styrene	1	27.4		4.60	
630-20-6	1,1,1,2-Tetrachloroethane	1	30.8		4.60	
79-34-5	1,1,2,2-Tetrachloroethane	1	25.1		4.60	
127-18-4	Tetrachloroethene	1	35.0		4.60	
108-88-3	Toluene	1	31.9		4.60	
120-82-1	1,2,4-Trichlorobenzene	1	16.5		4.60	
71-55-6	1,1,1-Trichloroethane	1	33.5		4.60	
79-00-5	1,1,2-Trichloroethane	1	29.5		4.60	
79-01-6	Trichloroethene	1	31.3		4.60	
75-69-4	Trichlorofluoromethane	1	46.3		4.60	
96-18-4	1,2,3-Trichloropropane	1	30.4		4.60	
95-63-6	1,2,4-Trimethylbenzene	1	22.1		4.60	
108-67-8	1,3,5-Trimethylbenzene	1	21.1	Q1	4.60	
108-05-4	Vinyl acetate	1	65.8		9.20	
75-01-4	Vinyl chloride	1	36.5		4.60	
	m&p-Xylene	1	56.4		4.60	
95-47-6	o-Xylene	1	28.3		4.60	

62 compound(s) reported

3/21/2007 16:45:40

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-16 (0-2)MS | **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 | **Project No.:** 2066873 | **Sample Qu:**

Lab ID: 20502391MS | **Matrix:** Soil | **% Moisture:** 15.1 Corrected

Description: None | **Prep Level:** Soil | **Batch:** 83084

Method: 8270 SVOAs Low Soil MS | **Units:** ug/kg | **Target List:** 8270 MSL20

Collected: 02/14/07 | **Received:** 02/15/07

Prep Factor: 1 | **Prepared:** 03/06/07 | **Analyzed:** 03/07/07 22:50 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
83-32-9	Acenaphthene	1	1386		392.	
83-32-9	Acenaphthene	1	842.		392.	
208-96-8	Acenaphthylene	1	1387		392.	
208-96-8	Acenaphthylene	1	854.		392.	
98-86-2	Acetophenone	1	758.	Q1	392.	
98-86-2	Acetophenone	1	1451		392.	
62-53-3	Aniline	1	745.	Q1	392.	
62-53-3	Aniline	1	1415		392.	
120-12-7	Anthracene	1	1479		392.	
120-12-7	Anthracene	1	941.		392.	
56-55-3	Benzo(a)anthracene	1	1408		392.	
56-55-3	Benzo(a)anthracene	1	917.		392.	
205-99-2	Benzo(b)fluoranthene	1	956.		392.	
205-99-2	Benzo(b)fluoranthene	1	1773		392.	
207-08-9	Benzo(k)fluoranthene	1	1895		392.	
207-08-9	Benzo(k)fluoranthene	1	959.		392.	
65-85-0	Benzoic acid	1	ND	Q1	981.	
65-85-0	Benzoic acid	1	ND	Q1	981.	
191-24-2	Benzo(g,h,i)perylene	1	532.		392.	
191-24-2	Benzo(g,h,i)perylene	1	612.		392.	
50-32-8	Benzo(a)pyrene	1	952.		392.	
50-32-8	Benzo(a)pyrene	1	1473		392.	
100-51-6	Benzyl alcohol	1	745.		392.	
100-51-6	Benzyl alcohol	1	1487		392.	
101-55-3	4-Bromophenylphenyl ether	1	778.		392.	
101-55-3	4-Bromophenylphenyl ether	1	1183		392.	
85-68-7	Butylbenzylphthalate	1	1612		392.	
85-68-7	Butylbenzylphthalate	1	711.		392.	
86-74-8	Carbazole	1	1136		392.	
86-74-8	Carbazole	1	1446		392.	
59-50-7	4-Chloro-3-methylphenol	1	767.		392.	
59-50-7	4-Chloro-3-methylphenol	1	1523		392.	
106-47-8	4-Chloroaniline	1	702.		392.	

3/21/2007 16:45:40

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Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health .Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

Pace Analytical
New Orleans Laboratory

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-16 (0-2)MS
Site: None
Project: MS BLUFFS/LA002656.0001 & 12
Project No.: 2066873
Sample Qu:
Lab ID: 20502391MS
Matrix: Soil
% Moisture: 15.1 Corrected
Description: None
Prep Level: Soil
Batch: 83084
Method: 8270 SVOAs Low Soil MS
Units: ug/kg
Target List: 8270 MSL20
Collected: 02/14/07
Received: 02/15/07
Prep Factor: 1
Prepared: 03/06/07
Analyzed: 03/07/07 22:50 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
106-47-8	4-Chloroaniline	1	1272		392.	
111-91-1	bis(2-Chloroethoxy)methane	1	711.		392.	
111-91-1	bis(2-Chloroethoxy)methane	1	1300		392.	
111-44-4	bis(2-Chloroethyl) ether	1	725.		392.	
111-44-4	bis(2-Chloroethyl) ether	1	1409		392.	
91-58-7	2-Chloronaphthalene	1	1245		392.	
91-58-7	2-Chloronaphthalene	1	798.		392.	
95-57-8	2-Chlorophenol	1	1459		392.	
95-57-8	2-Chlorophenol	1	720.		392.	
7005-72-3	4-Chlorophenylphenyl ether	1	824.		392.	
7005-72-3	4-Chlorophenylphenyl ether	1	1413		392.	
218-01-9	Chrysene	1	892.		392.	
218-01-9	Chrysene	1	1391		392.	
53-70-3	Dibenz(a,h)anthracene	1	703.		392.	
53-70-3	Dibenz(a,h)anthracene	1	608.		392.	
132-64-9	Dibenzofuran	1	1366		392.	
132-64-9	Dibenzofuran	1	839.		392.	
95-50-1	1,2-Dichlorobenzene	1	657.		392.	
95-50-1	1,2-Dichlorobenzene	1	1393		392.	
541-73-1	1,3-Dichlorobenzene	1	1387		392.	
541-73-1	1,3-Dichlorobenzene	1	617.		392.	
106-46-7	1,4-Dichlorobenzene	1	1373		392.	
106-46-7	1,4-Dichlorobenzene	1	619.		392.	
91-94-1	3,3'-Dichlorobenzidine	1	1015		786.	
91-94-1	3,3'-Dichlorobenzidine	1	ND	Q1	786.	
120-83-2	2,4-Dichlorophenol	1	706.		392.	
120-83-2	2,4-Dichlorophenol	1	1412		392.	
84-66-2	Diethylphthalate	1	1339		392.	
84-66-2	Diethylphthalate	1	912.		392.	
105-67-9	2,4-Dimethylphenol	1	1174		392.	
105-67-9	2,4-Dimethylphenol	1	555.		392.	
131-11-3	Dimethylphthalate	1	860.		392.	
131-11-3	Dimethylphthalate	1	1259		392.	

3/21/2007 16:45:40

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-16 (0-2)MS
Site: None
Project: MS BLUFFS/LA002656.0001 & 12
Project No.: 2066873
Sample Qu:
Lab ID: 20502391MS
Matrix: Soil
% Moisture: 15.1 Corrected
Description: None
Prep Level: Soil
Batch: 83084
Method: 8270 SVOAs Low Soil MS
Units: ug/kg
Target List: 8270 MSL20
Collected: 02/14/07
Received: 02/15/07
Prep Factor: 1
Prepared: 03/06/07
Analyzed: 03/07/07 22:50 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
84-74-2	Di-n-butylphthalate	1	1300		392.	
84-74-2	Di-n-butylphthalate	1	958.		392.	
534-52-1	4,6-Dinitro-2-methylphenol	1	551.		392.	
534-52-1	4,6-Dinitro-2-methylphenol	1	454.		392.	
51-28-5	2,4-Dinitrophenol	1	ND	Q1	392.	
51-28-5	2,4-Dinitrophenol	1	393.		392.	
121-14-2	2,4-Dinitrotoluene	1	925.		392.	
121-14-2	2,4-Dinitrotoluene	1	1385		392.	
606-20-2	2,6-Dinitrotoluene	1	886.		392.	
606-20-2	2,6-Dinitrotoluene	1	1340		392.	
117-84-0	Di-n-octylphthalate	1	935.		392.	
117-84-0	Di-n-octylphthalate	1	3274	Q1	392.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	1630		392.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	799.		392.	
206-44-0	Fluoranthene	1	1321		392.	
206-44-0	Fluoranthene	1	1460		392.	
86-73-7	Fluorene	1	1503		392.	
86-73-7	Fluorene	1	884.		392.	
87-68-3	Hexachloro-1,3-butadiene	1	1299		392.	
87-68-3	Hexachloro-1,3-butadiene	1	656.		392.	
118-74-1	Hexachlorobenzene	1	1312		392.	
118-74-1	Hexachlorobenzene	1	807.		392.	
77-47-4	Hexachlorocyclopentadiene	1	680.		392.	
77-47-4	Hexachlorocyclopentadiene	1	992.		392.	
67-72-1	Hexachloroethane	1	663.		392.	
67-72-1	Hexachloroethane	1	1393		392.	
193-39-5	Indeno(1,2,3-cd)pyrene	1	610.		392.	
193-39-5	Indeno(1,2,3-cd)pyrene	1	696.		392.	
78-59-1	Isophorone	1	1477		392.	
78-59-1	Isophorone	1	780.		392.	
90-12-0	1-Methylnaphthalene	1	1485		392.	
90-12-0	1-Methylnaphthalene	1	899.		392.	
91-57-6	2-Methylnaphthalene	1	697.		392.	

3/21/2007 16:45:40

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LELAP # 02006

Client: Arcadis Geraghty & Miller

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Site: None
Project: MS BLUFFS/LA002656.0001 & 12
Project No.: 2066873
Sample Qu:
Lab ID: 20502391MS
Matrix: Soil
% Moisture: 15.1 Corrected
Description: None
Prep Level: Soil
Batch: 83084
Method: 8270 SVOAs Low Soil MS
Units: ug/kg
Target List: 8270 MSL20
Collected: 02/14/07
Received: 02/15/07
Prep Factor: 1
Prepared: 03/06/07
Analyzed: 03/07/07 22:50 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
91-57-6	2-Methylnaphthalene	1	1387		392.	
95-48-7	2-Methylphenol (o-Cresol)	1	1436		392.	
95-48-7	2-Methylphenol (o-Cresol)	1	684.		392.	
106-44-5	4-Methylphenol (p-Cresol)	1	674.	A7	392.	
106-44-5	4-Methylphenol (p-Cresol)	1	1450	A7	392.	
91-20-3	Naphthalene	1	1431		392.	
91-20-3	Naphthalene	1	682.		392.	
88-74-4	2-Nitroaniline	1	1380		392.	
88-74-4	2-Nitroaniline	1	948.		392.	
99-09-2	3-Nitroaniline	1	844.		392.	
99-09-2	3-Nitroaniline	1	1349		392.	
100-01-6	4-Nitroaniline	1	1661		392.	
100-01-6	4-Nitroaniline	1	970.		392.	
98-95-3	Nitrobenzene	1	1338		392.	
98-95-3	Nitrobenzene	1	707.		392.	
88-75-5	2-Nitrophenol	1	1358		392.	
88-75-5	2-Nitrophenol	1	708.		392.	
100-02-7	4-Nitrophenol	1	1410		392.	
100-02-7	4-Nitrophenol	1	1184		392.	
621-64-7	N-Nitroso-di-n-propylamine	1	1473		392.	
621-64-7	N-Nitroso-di-n-propylamine	1	797.		392.	
86-30-6	N-Nitrosodiphenylamine	1	1169	A10	392.	
86-30-6	N-Nitrosodiphenylamine	1	758.	A10	392.	
108-60-1	2,2'-Oxybis(1-chloropropane)	1	705.		392.	
108-60-1	2,2'-Oxybis(1-chloropropane)	1	1407		392.	
87-86-5	Pentachlorophenol	1	1372		392.	
87-86-5	Pentachlorophenol	1	1147		392.	
85-01-8	Phenanthrene	1	1401		392.	
85-01-8	Phenanthrene	1	909.		392.	
108-95-2	Phenol	1	1535		392.	
108-95-2	Phenol	1	730.		392.	
129-00-0	Pyrene	1	1944		392.	
129-00-0	Pyrene	1	661.		392.	

3/21/2007 16:45:40

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-16 (0-2)MS
Site: None
Project: MS BLUFFS/LA002656.0001 & 12
Project No.: 2066873
Sample Qu:
Lab ID: 20502391MS
Matrix: Soil
% Moisture: 15.1 Corrected
Description: None
Prep Level: Soil
Batch: 82863
Method: 8270 SVOAs Low Soil MS
Units: ug/kg
Target List: 8270 MSL20
Collected: 02/14/07
Received: 02/15/07
Prep Factor: 1
Prepared: 02/28/07
Analyzed: 03/04/07 02:29 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
120-82-1	1,2,4-Trichlorobenzene	1	661.		392.	
120-82-1	1,2,4-Trichlorobenzene	1	1293		392.	
95-95-4	2,4,5-Trichlorophenol	1	1329		392.	
95-95-4	2,4,5-Trichlorophenol	1	867.		392.	
88-06-2	2,4,6-Trichlorophenol	1	1296		392.	
88-06-2	2,4,6-Trichlorophenol	1	829.		392.	

138 compound(s) reported

3/21/2007 16:45:41

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-16 (0-2)MSD
Site: None
Project: MS BLUFFS/LA002656.0001 & 12
Project No.: 2066873
Sample Qu:
Lab ID: 20502391MSD
Matrix: Soil
% Moisture: 15.1 Corrected
Description: None
Prep Level: Soil
Batch: 82551
Method: 8260 VOAs Low Soil MS
Units: ug/kg
Target List: 8260 MSL20
Collected: 02/14/07
Received: 02/15/07
Prep Factor: 1
Prepared: 02/23/07
Analyzed: 02/23/07 21:13 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	35.6	A11	9.79	
75-05-8	Acetonitrile	1	670.		97.9	
107-02-8	Acrolein	1	55.3		19.6	
107-13-1	Acrylonitrile	1	95.7		19.6	
107-05-1	Allyl chloride	1	68.5		9.79	
71-43-2	Benzene	1	32.5		4.89	
75-27-4	Bromodichloromethane	1	32.2		4.89	
75-25-2	Bromoform	1	44.1		4.89	
74-83-9	Bromomethane	1	22.2		4.89	
78-93-3	2-Butanone (MEK)	1	43.4	A11	9.79	
75-15-0	Carbon disulfide	1	30.6		4.89	
56-23-5	Carbon tetrachloride	1	34.8		4.89	
108-90-7	Chlorobenzene	1	36.2		4.89	
75-00-3	Chloroethane	1	38.9		4.89	
67-66-3	Chloroform	1	38.7		4.89	
74-87-3	Chloromethane	1	45.4		4.89	
126-99-8	Chloroprene	1	39.2		4.89	
96-12-8	1,2-Dibromo-3-chloropropane	1	33.3		4.89	
124-48-1	Dibromochloromethane	1	38.5		4.89	
106-93-4	1,2-Dibromoethane (EDB)	1	44.6		4.89	
74-95-3	Dibromomethane	1	36.5		4.89	
95-50-1	1,2-Dichlorobenzene	1	34.7		4.89	
541-73-1	1,3-Dichlorobenzene	1	31.9		4.89	
106-46-7	1,4-Dichlorobenzene	1	31.8		4.89	
110-57-6	trans-1,4-Dichloro-2-butene	1	62.0		4.89	
75-34-3	1,1-Dichloroethane	1	36.5		4.89	
107-06-2	1,2-Dichloroethane	1	33.9		4.89	
75-35-4	1,1-Dichloroethene	1	39.1		4.89	
156-60-5	trans-1,2-Dichloroethene	1	38.4		4.89	
78-87-5	1,2-Dichloropropane	1	32.0		4.89	
10061-01-5	cis-1,3-Dichloropropene	1	34.5		4.89	
10061-02-6	trans-1,3-Dichloropropene	1	33.8		4.89	
123-91-1	1,4-Dioxane (p-Dioxane)	1	2295	Q1	245.	

3/21/2007 16:45:41

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-16 (0-2)MSD
Site: None
Project: MS BLUFFS/LA002656.0001 & 12
Project No.: 2066873
Sample Qu:
Lab ID: 20502391MSD
Matrix: Soil
% Moisture: 15.1 Corrected
Description: None
Prep Level: Soil
Batch: 82551
Method: 8260 VOAs Low Soil MS
Units: ug/kg
Target List: 8260 MSL20
Collected: 02/14/07
Received: 02/15/07
Prep Factor: 1
Prepared: 02/23/07
Analyzed: 02/23/07 21:13 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
100-41-4	Ethylbenzene	1	34.5		4.89	
97-63-2	Ethyl methacrylate	1	81.3		9.79	
87-68-3	Hexachloro-1,3-butadiene	1	27.1		4.89	
591-78-6	2-Hexanone	1	41.5		9.79	
74-88-4	Iodomethane	1	44.3		4.89	
78-83-1	Isobutanol	1	1230		245.	
126-98-7	Methacrylonitrile	1	450.		97.9	
75-09-2	Methylene chloride	1	46.8	A11	4.89	
80-62-6	Methyl methacrylate	1	77.9		9.79	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	44.7		9.79	
91-20-3	Naphthalene	1	35.8		4.89	
107-12-0	Propionitrile	1	451.		19.6	
100-42-5	Styrene	1	31.8		4.89	
630-20-6	1,1,1,2-Tetrachloroethane	1	39.5		4.89	
79-34-5	1,1,2,2-Tetrachloroethane	1	33.9		4.89	
127-18-4	Tetrachloroethene	1	41.8		4.89	
108-88-3	Toluene	1	35.9		4.89	
120-82-1	1,2,4-Trichlorobenzene	1	27.7		4.89	
71-55-6	1,1,1-Trichloroethane	1	38.1		4.89	
79-00-5	1,1,2-Trichloroethane	1	38.7		4.89	
79-01-6	Trichloroethene	1	36.5		4.89	
75-69-4	Trichlorofluoromethane	1	56.5		4.89	
96-18-4	1,2,3-Trichloropropane	1	36.8		4.89	
95-63-6	1,2,4-Trimethylbenzene	1	32.7		4.89	
108-67-8	1,3,5-Trimethylbenzene	1	30.6	Q1	4.89	
108-05-4	Vinyl acetate	1	90.7		9.79	
75-01-4	Vinyl chloride	1	40.5		4.89	
	m&p-Xylene	1	70.4		4.89	
95-47-6	o-Xylene	1	35.9		4.89	

62 compound(s) reported

3/21/2007 16:45:41

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U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

Pace Analytical
New Orleans Laboratory

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-16 (0-2)MSD
Site: None
Project: MS BLUFFS/LA002656.0001 & 12
Project No.: 2066873
Sample Qu:
Lab ID: 20502391MSD
Matrix: Soil
% Moisture: 15.1 Corrected
Description: None
Prep Level: Soil
Batch: 83084
Method: 8270 SVOAs Low Soil MS
Units: ug/kg
Target List: 8270 MSL20
Collected: 02/14/07
Received: 02/15/07
Prep Factor: 1
Prepared: 03/06/07
Analyzed: 03/07/07 23:19 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
83-32-9	Acenaphthene	1	1360		392.	
83-32-9	Acenaphthene	1	1047		392.	
208-96-8	Acenaphthylene	1	1371		392.	
208-96-8	Acenaphthylene	1	1059		392.	
98-86-2	Acetophenone	1	1351		392.	
98-86-2	Acetophenone	1	876.		392.	
62-53-3	Aniline	1	1500		392.	
62-53-3	Aniline	1	767.	Q1	392.	
120-12-7	Anthracene	1	1428		392.	
120-12-7	Anthracene	1	1147		392.	
56-55-3	Benzo(a)anthracene	1	1325		392.	
56-55-3	Benzo(a)anthracene	1	1124		392.	
205-99-2	Benzo(b)fluoranthene	1	1739		392.	
205-99-2	Benzo(b)fluoranthene	1	1348		392.	
207-08-9	Benzo(k)fluoranthene	1	1213		392.	
207-08-9	Benzo(k)fluoranthene	1	1891		392.	
65-85-0	Benzoic acid	1	ND		981.	
65-85-0	Benzoic acid	1	ND	Q1	981.	
191-24-2	Benzo(g,h,i)perylene	1	635.		392.	
191-24-2	Benzo(g,h,i)perylene	1	488.		392.	
50-32-8	Benzo(a)pyrene	1	1422		392.	
50-32-8	Benzo(a)pyrene	1	1205		392.	
100-51-6	Benzyl alcohol	1	1356		392.	
100-51-6	Benzyl alcohol	1	914.		392.	
101-55-3	4-Bromophenylphenyl ether	1	1173		392.	
101-55-3	4-Bromophenylphenyl ether	1	937.		392.	
85-68-7	Butylbenzylphthalate	1	1629		392.	
85-68-7	Butylbenzylphthalate	1	880.		392.	
86-74-8	Carbazole	1	1420		392.	
86-74-8	Carbazole	1	1411		392.	
59-50-7	4-Chloro-3-methylphenol	1	1420		392.	
59-50-7	4-Chloro-3-methylphenol	1	875.		392.	
106-47-8	4-Chloroaniline	1	1328		392.	

3/21/2007 16:45:41

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-16 (0-2)MSD
Site: None
Project: MS BLUFFS/LA002656.0001 & 12
Project No.: 2066873
Sample Qu:
Lab ID: 20502391MSD
Matrix: Soil
% Moisture: 15.1 Corrected
Description: None
Prep Level: Soil
Batch: 82863
Method: 8270 SVOAs Low Soil MS
Units: ug/kg
Target List: 8270 MSL20
Collected: 02/14/07
Received: 02/15/07
Prep Factor: 1
Prepared: 02/28/07
Analyzed: 03/04/07 02:58 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
106-47-8	4-Chloroaniline	1	687.		392.	
111-91-1	bis(2-Chloroethoxy)methane	1	1235		392.	
111-91-1	bis(2-Chloroethoxy)methane	1	825.		392.	
111-44-4	bis(2-Chloroethyl) ether	1	793.		392.	
111-44-4	bis(2-Chloroethyl) ether	1	1294		392.	
91-58-7	2-Chloronaphthalene	1	1005		392.	
91-58-7	2-Chloronaphthalene	1	1219		392.	
95-57-8	2-Chlorophenol	1	1313		392.	
95-57-8	2-Chlorophenol	1	871.		392.	
7005-72-3	4-Chlorophenylphenyl ether	1	1003		392.	
7005-72-3	4-Chlorophenylphenyl ether	1	1332		392.	
218-01-9	Chrysene	1	1116		392.	
218-01-9	Chrysene	1	1317		392.	
53-70-3	Dibenz(a,h)anthracene	1	792.		392.	
53-70-3	Dibenz(a,h)anthracene	1	576.		392.	
132-64-9	Dibenzofuran	1	1341		392.	
132-64-9	Dibenzofuran	1	1017		392.	
95-50-1	1,2-Dichlorobenzene	1	1325		392.	
95-50-1	1,2-Dichlorobenzene	1	724.		392.	
541-73-1	1,3-Dichlorobenzene	1	1267		392.	
541-73-1	1,3-Dichlorobenzene	1	669.		392.	
106-46-7	1,4-Dichlorobenzene	1	684.		392.	
106-46-7	1,4-Dichlorobenzene	1	1294		392.	
91-94-1	3,3'-Dichlorobenzidine	1	1078		786.	
91-94-1	3,3'-Dichlorobenzidine	1	ND	Q1	786.	
120-83-2	2,4-Dichlorophenol	1	851.		392.	
120-83-2	2,4-Dichlorophenol	1	1304		392.	
84-66-2	Diethylphthalate	1	1052		392.	
84-66-2	Diethylphthalate	1	1285		392.	
105-67-9	2,4-Dimethylphenol	1	1119		392.	
105-67-9	2,4-Dimethylphenol	1	628.		392.	
131-11-3	Dimethylphthalate	1	1243		392.	
131-11-3	Dimethylphthalate	1	1023		392.	

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Project No.: 2066873
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% Moisture: 15.1 Corrected
Description: None
Prep Level: Soil
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Units: ug/kg
Target List: 8270 MSL20
Collected: 02/14/07
Received: 02/15/07
Prep Factor: 1
Prepared: 02/28/07
Analyzed: 03/04/07 02:58 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
84-74-2	Di-n-butylphthalate	1	1175		392.	
84-74-2	Di-n-butylphthalate	1	1250		392.	
534-52-1	4,6-Dinitro-2-methylphenol	1	401.		392.	
534-52-1	4,6-Dinitro-2-methylphenol	1	560.		392.	
51-28-5	2,4-Dinitrophenol	1	419.		392.	
51-28-5	2,4-Dinitrophenol	1	ND	Q1	392.	
121-14-2	2,4-Dinitrotoluene	1	1424		392.	
121-14-2	2,4-Dinitrotoluene	1	1047		392.	
606-20-2	2,6-Dinitrotoluene	1	1341		392.	
606-20-2	2,6-Dinitrotoluene	1	1058		392.	
117-84-0	Di-n-octylphthalate	1	3665	Q1	392.	
117-84-0	Di-n-octylphthalate	1	1334		392.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	1648		392.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	978.		392.	
206-44-0	Fluoranthene	1	1400		392.	
206-44-0	Fluoranthene	1	1728		392.	
86-73-7	Fluorene	1	1460		392.	
86-73-7	Fluorene	1	1063		392.	
87-68-3	Hexachloro-1,3-butadiene	1	760.		392.	
87-68-3	Hexachloro-1,3-butadiene	1	1241		392.	
118-74-1	Hexachlorobenzene	1	982.		392.	
118-74-1	Hexachlorobenzene	1	1263		392.	
77-47-4	Hexachlorocyclopentadiene	1	819.		392.	
77-47-4	Hexachlorocyclopentadiene	1	999.		392.	
67-72-1	Hexachloroethane	1	1304		392.	
67-72-1	Hexachloroethane	1	712.		392.	
193-39-5	Indeno(1,2,3-cd)pyrene	1	547.		392.	
193-39-5	Indeno(1,2,3-cd)pyrene	1	761.		392.	
78-59-1	Isophorone	1	902.		392.	
78-59-1	Isophorone	1	1384		392.	
90-12-0	1-Methylnaphthalene	1	1046		392.	
90-12-0	1-Methylnaphthalene	1	1366		392.	
91-57-6	2-Methylnaphthalene	1	827.		392.	

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Site: None
Project: MS BLUFFS/LA002656.0001 & 12
Project No.: 2066873
Sample Qu:
Lab ID: 20502391MSD
Matrix: Soil
% Moisture: 15.1 Corrected
Description: None
Prep Level: Soil
Batch: 83084
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Units: ug/kg
Target List: 8270 MSL20
Collected: 02/14/07
Received: 02/15/07
Prep Factor: 1
Prepared: 03/06/07
Analyzed: 03/07/07 23:19 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
91-57-6	2-Methylnaphthalene	1	1313		392.	
95-48-7	2-Methylphenol (o-Cresol)	1	855.		392.	
95-48-7	2-Methylphenol (o-Cresol)	1	1329		392.	
106-44-5	4-Methylphenol (p-Cresol)	1	828.	A7	392.	
106-44-5	4-Methylphenol (p-Cresol)	1	1275	A7	392.	
91-20-3	Naphthalene	1	791.		392.	
91-20-3	Naphthalene	1	1368		392.	
88-74-4	2-Nitroaniline	1	1377		392.	
88-74-4	2-Nitroaniline	1	1131		392.	
99-09-2	3-Nitroaniline	1	1424		392.	
99-09-2	3-Nitroaniline	1	823.		392.	
100-01-6	4-Nitroaniline	1	1537		392.	
100-01-6	4-Nitroaniline	1	897.		392.	
98-95-3	Nitrobenzene	1	810.		392.	
98-95-3	Nitrobenzene	1	1250		392.	
88-75-5	2-Nitrophenol	1	1323		392.	
88-75-5	2-Nitrophenol	1	821.		392.	
100-02-7	4-Nitrophenol	1	1417		392.	
100-02-7	4-Nitrophenol	1	1402		392.	
621-64-7	N-Nitroso-di-n-propylamine	1	1340		392.	
621-64-7	N-Nitroso-di-n-propylamine	1	929.		392.	
86-30-6	N-Nitrosodiphenylamine	1	925.	A10	392.	
86-30-6	N-Nitrosodiphenylamine	1	1135	A10	392.	
108-60-1	2,2'-Oxybis(1-chloropropane)	1	1308		392.	
108-60-1	2,2'-Oxybis(1-chloropropane)	1	801.		392.	
87-86-5	Pentachlorophenol	1	1319		392.	
87-86-5	Pentachlorophenol	1	1395		392.	
85-01-8	Phenanthrene	1	1098		392.	
85-01-8	Phenanthrene	1	1350		392.	
108-95-2	Phenol	1	1399		392.	
108-95-2	Phenol	1	890.		392.	
129-00-0	Pyrene	1	1848		392.	
129-00-0	Pyrene	1	791.		392.	

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Project No.: 2066873
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Matrix: Soil
% Moisture: 15.1 Corrected
Description: None
Prep Level: Soil
Batch: 83084
Method: 8270 SVOAs Low Soil MS
Units: ug/kg
Target List: 8270 MSL20
Collected: 02/14/07
Received: 02/15/07
Prep Factor: 1
Prepared: 03/06/07
Analyzed: 03/07/07 23:19 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
120-82-1	1,2,4-Trichlorobenzene	1	1252		392.	
120-82-1	1,2,4-Trichlorobenzene	1	771.		392.	
95-95-4	2,4,5-Trichlorophenol	1	1039		392.	
95-95-4	2,4,5-Trichlorophenol	1	1310		392.	
88-06-2	2,4,6-Trichlorophenol	1	1044		392.	
88-06-2	2,4,6-Trichlorophenol	1	1264		392.	

138 compound(s) reported

3/21/2007 16:45:42

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Client ID: GP-SB-16 (0-2)
Site: None
Project: MS BLUFFS/LA002656.0001 & 12
Project No.: 2066873
Sample Qu:
Lab ID: 20502391RE1
Matrix: Soil
% Moisture: 15.1 Corrected
Description: None
Prep Level: Soil
Batch: 83084
Method: 8270 SVOAs Low Soil
Units: ug/kg
Target List: 8270_SL20
Collected: 02/14/07
Received: 02/15/07
Prep Factor: 1
Prepared: 03/06/07
Analyzed: 03/07/07 22:22 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
83-32-9	Acenaphthene	1	ND	N	392.	
208-96-8	Acenaphthylene	1	ND	N	392.	
98-86-2	Acetophenone	1	ND	N	392.	
62-53-3	Aniline	1	ND	N	392.	
120-12-7	Anthracene	1	ND	N	392.	
1912-24-9	Atrazine	1	ND	N	392.	
56-55-3	Benzo(a)anthracene	1	ND	N	392.	
205-99-2	Benzo(b)fluoranthene	1	ND	N	392.	
207-08-9	Benzo(k)fluoranthene	1	ND	N	392.	
65-85-0	Benzoic acid	1	ND	N	981.	
191-24-2	Benzo(g,h,i)perylene	1	ND	N	392.	
50-32-8	Benzo(a)pyrene	1	ND	N	392.	
100-51-6	Benzyl alcohol	1	ND	N	392.	
101-55-3	4-Bromophenylphenyl ether	1	ND	N	392.	
85-68-7	Butylbenzylphthalate	1	ND	N	392.	
86-74-8	Carbazole	1	ND	N	392.	
59-50-7	4-Chloro-3-methylphenol	1	ND	N	392.	
106-47-8	4-Chloroaniline	1	ND	N	392.	
111-91-1	bis(2-Chloroethoxy)methane	1	ND	N	392.	
111-44-4	bis(2-Chloroethyl) ether	1	ND	N	392.	
91-58-7	2-Chloronaphthalene	1	ND	N	392.	
95-57-8	2-Chlorophenol	1	ND	N	392.	
7005-72-3	4-Chlorophenylphenyl ether	1	ND	N	392.	
218-01-9	Chrysene	1	ND	N	392.	
21725-46-2	Cyanazine	1	ND	N	392.	
53-70-3	Dibenz(a,h)anthracene	1	ND	N	392.	
132-64-9	Dibenzofuran	1	ND	N	392.	
95-50-1	1,2-Dichlorobenzene	1	ND	N	392.	
541-73-1	1,3-Dichlorobenzene	1	ND	N	392.	
106-46-7	1,4-Dichlorobenzene	1	ND	N	392.	
91-94-1	3,3'-Dichlorobenzidine	1	ND	N	786.	
120-83-2	2,4-Dichlorophenol	1	ND	N	392.	
84-66-2	Diethylphthalate	1	ND	N	392.	

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Client ID: GP-SB-16 (0-2) | **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 | **Project No.:** 2066873 | **Sample Qu:**

Lab ID: 20502391RE1 | **Matrix:** Soil | **% Moisture:** 15.1 Corrected

Description: None | **Prep Level:** Soil | **Batch:** 83084

Method: 8270 SVOAs Low Soil | **Units:** ug/kg | **Target List:** 8270_SL20

Collected: 02/14/07 | **Received:** 02/15/07

Prep Factor: 1 | **Prepared:** 03/06/07 | **Analyzed:** 03/07/07 22:22 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
105-67-9	2,4-Dimethylphenol	1	ND	N	392.	
131-11-3	Dimethylphthalate	1	ND	N	392.	
84-74-2	Di-n-butylphthalate	1	ND	N	392.	
534-52-1	4,6-Dinitro-2-methylphenol	1	ND	N	392.	
51-28-5	2,4-Dinitrophenol	1	ND	N	392.	
121-14-2	2,4-Dinitrotoluene	1	ND	N	392.	
606-20-2	2,6-Dinitrotoluene	1	ND	N	392.	
117-84-0	Di-n-octylphthalate	1	ND	N	392.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND	N	392.	
206-44-0	Fluoranthene	1	ND	N	392.	
86-73-7	Fluorene	1	ND	N	392.	
87-68-3	Hexachloro-1,3-butadiene	1	ND	N	392.	
118-74-1	Hexachlorobenzene	1	ND	N	392.	
77-47-4	Hexachlorocyclopentadiene	1	ND	N	392.	
67-72-1	Hexachloroethane	1	ND	N	392.	
193-39-5	Indeno(1,2,3-cd)pyrene	1	ND	N	392.	
78-59-1	Isophorone	1	ND	N	392.	
90-12-0	1-Methylnaphthalene	1	ND	N	392.	
91-57-6	2-Methylnaphthalene	1	ND	N	392.	
95-48-7	2-Methylphenol (o-Cresol)	1	ND	N	392.	
106-44-5	4-Methylphenol (p-Cresol)	1	ND	A7,N	392.	
91-20-3	Naphthalene	1	ND	N	392.	
88-74-4	2-Nitroaniline	1	ND	N	392.	
99-09-2	3-Nitroaniline	1	ND	N	392.	
100-01-6	4-Nitroaniline	1	ND	N	392.	
98-95-3	Nitrobenzene	1	ND	N	392.	
88-75-5	2-Nitrophenol	1	ND	N	392.	
100-02-7	4-Nitrophenol	1	ND	N	392.	
621-64-7	N-Nitroso-di-n-propylamine	1	ND	N	392.	
86-30-6	N-Nitrosodiphenylamine	1	ND	A10,N	392.	
108-60-1	2,2'-Oxybis(1-chloropropane)	1	ND	N	392.	
87-86-5	Pentachlorophenol	1	ND	N	392.	
85-01-8	Phenanthrene	1	ND	N	392.	

3/21/2007 16:45:42

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-16 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502391RE1 **Matrix:** Soil **% Moisture:** 15.1 Corrected

Description: None **Prep Level:** Soil **Batch:** 83084

Method: 8270 SVOAs Low Soil **Units:** ug/kg **Target List:** 8270_SL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 03/06/07 **Analyzed:** 03/07/07 22:22 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
108-95-2	Phenol	1	ND	N	392.	
129-00-0	Pyrene	1	ND	N	392.	
120-82-1	1,2,4-Trichlorobenzene	1	ND	N	392.	
95-95-4	2,4,5-Trichlorophenol	1	ND	N	392.	
88-06-2	2,4,6-Trichlorophenol	1	ND	N	392.	

71 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-16 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502392 **Matrix:** Soil **% Moisture:** 15.9 Corrected

Description: None **Prep Level:** Soil **Batch:** 82551

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/23/07 **Analyzed:** 02/23/07 22:49 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	42.4	A11	9.66	
75-05-8	Acetonitrile	1	ND		96.6	
107-02-8	Acrolein	1	ND		19.3	
107-13-1	Acrylonitrile	1	ND		19.3	
107-05-1	Allyl chloride	1	ND		9.66	
71-43-2	Benzene	1	ND		4.83	
75-27-4	Bromodichloromethane	1	ND		4.83	
75-25-2	Bromoform	1	ND		4.83	
74-83-9	Bromomethane	1	ND		4.83	
78-93-3	2-Butanone (MEK)	1	ND	A11	9.66	
75-15-0	Carbon disulfide	1	ND		4.83	
56-23-5	Carbon tetrachloride	1	ND		4.83	
108-90-7	Chlorobenzene	1	ND		4.83	
75-00-3	Chloroethane	1	ND		4.83	
67-66-3	Chloroform	1	ND		4.83	
74-87-3	Chloromethane	1	ND		4.83	
126-99-8	Chloroprene	1	ND		4.83	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		4.83	
124-48-1	Dibromochloromethane	1	ND		4.83	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		4.83	
74-95-3	Dibromomethane	1	ND		4.83	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		4.83	
75-71-8	Dichlorodifluoromethane	1	ND		4.83	
75-34-3	1,1-Dichloroethane	1	ND		4.83	
107-06-2	1,2-Dichloroethane	1	ND		4.83	
75-35-4	1,1-Dichloroethene	1	ND		4.83	
156-60-5	trans-1,2-Dichloroethene	1	ND		4.83	
78-87-5	1,2-Dichloropropane	1	ND		4.83	
10061-01-5	cis-1,3-Dichloropropene	1	ND		4.83	
10061-02-6	trans-1,3-Dichloropropene	1	ND		4.83	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		242.	
100-41-4	Ethylbenzene	1	ND		4.83	
97-63-2	Ethyl methacrylate	1	ND		9.66	

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-16 (2-4) | **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 | **Project No.:** 2066873 | **Sample Qu:**

Lab ID: 20502392 | **Matrix:** Soil | **% Moisture:** 15.9 Corrected

Description: None | **Prep Level:** Soil | **Batch:** 82551

Method: 8260 VOAs Low Soil | **Units:** ug/kg | **Target List:** 8260_SL20

Collected: 02/14/07 | **Received:** 02/15/07

Prep Factor: 1 | **Prepared:** 02/23/07 | **Analyzed:** 02/23/07 22:49 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		9.66	
74-88-4	Iodomethane	1	ND		4.83	
78-83-1	Isobutanol	1	ND		242.	
126-98-7	Methacrylonitrile	1	ND		96.6	
75-09-2	Methylene chloride	1	ND	A11	4.83	
80-62-6	Methyl methacrylate	1	ND		9.66	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		9.66	
107-12-0	Propionitrile	1	ND		19.3	
100-42-5	Styrene	1	ND		4.83	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		4.83	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		4.83	
127-18-4	Tetrachloroethene	1	ND		4.83	
108-88-3	Toluene	1	6.05		4.83	
71-55-6	1,1,1-Trichloroethane	1	ND		4.83	
79-00-5	1,1,2-Trichloroethane	1	ND		4.83	
79-01-6	Trichloroethene	1	ND		4.83	
75-69-4	Trichlorofluoromethane	1	ND		4.83	
96-18-4	1,2,3-Trichloropropane	1	ND		4.83	
95-63-6	1,2,4-Trimethylbenzene	1	ND		4.83	
108-67-8	1,3,5-Trimethylbenzene	1	ND		4.83	
108-05-4	Vinyl acetate	1	ND		9.66	
75-01-4	Vinyl chloride	1	ND		4.83	
	m&p-Xylene	1	ND		4.83	
95-47-6	o-Xylene	1	ND		4.83	

57 compound(s) reported

3/21/2007 16:45:42

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-16 (2-4)
Site: None
Project: MS BLUFFS/LA002656.0001 & 12
Project No.: 2066873
Sample Qu:
Lab ID: 20502392
Matrix: Soil
% Moisture: 15.9 Corrected
Description: None
Prep Level: Soil
Batch: 82863
Method: 8270 SVOAs Low Soil
Units: ug/kg
Target List: 8270_SL20
Collected: 02/14/07
Received: 02/15/07
Prep Factor: 1
Prepared: 02/28/07
Analyzed: 03/04/07 00:03 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		396.	
1912-24-9	Atrazine	1	ND		396.	
21725-46-2	Cyanazine	1	ND		396.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		396.	
100-02-7	4-Nitrophenol	1	ND		396.	
87-86-5	Pentachlorophenol	1	ND		396.	

6 compound(s) reported

3/21/2007 16:45:43

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: TB-GP-SB-01 **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502393 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82479

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/16/07 **Analyzed:** 02/16/07 22:58 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	10.0	
75-05-8	Acetonitrile	1	ND		100.	
107-02-8	Acrolein	1	ND		20.0	
107-13-1	Acrylonitrile	1	ND		20.0	
107-05-1	Allyl chloride	1	ND		10.0	
71-43-2	Benzene	1	ND		5.00	
75-27-4	Bromodichloromethane	1	ND		5.00	
75-25-2	Bromoform	1	ND		5.00	
74-83-9	Bromomethane	1	ND		5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	10.0	
75-15-0	Carbon disulfide	1	ND		5.00	
56-23-5	Carbon tetrachloride	1	ND		5.00	
108-90-7	Chlorobenzene	1	ND		5.00	
75-00-3	Chloroethane	1	ND		5.00	
67-66-3	Chloroform	1	ND		5.00	
74-87-3	Chloromethane	1	ND		5.00	
126-99-8	Chloroprene	1	ND		5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.00	
124-48-1	Dibromochloromethane	1	ND		5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		5.00	
74-95-3	Dibromomethane	1	ND		5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		5.00	
75-71-8	Dichlorodifluoromethane	1	ND		5.00	
75-34-3	1,1-Dichloroethane	1	ND		5.00	
107-06-2	1,2-Dichloroethane	1	ND		5.00	
75-35-4	1,1-Dichloroethene	1	ND		5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00	
78-87-5	1,2-Dichloropropane	1	ND		5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		250.	
100-41-4	Ethylbenzene	1	ND		5.00	
97-63-2	Ethyl methacrylate	1	ND		10.0	

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: TB-GP-SB-01 **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502393 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82479

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/16/07 **Analyzed:** 02/16/07 22:58 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		10.0	
74-88-4	Iodomethane	1	ND		5.00	
78-83-1	Isobutanol	1	ND		250.	
126-98-7	Methacrylonitrile	1	ND		100.	
75-09-2	Methylene chloride	1	ND	A11	5.00	
80-62-6	Methyl methacrylate	1	ND		10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0	
107-12-0	Propionitrile	1	ND		20.0	
100-42-5	Styrene	1	ND		5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00	
127-18-4	Tetrachloroethene	1	ND		5.00	
108-88-3	Toluene	1	ND		5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		5.00	
79-01-6	Trichloroethene	1	ND		5.00	
75-69-4	Trichlorofluoromethane	1	ND		5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		5.00	
108-05-4	Vinyl acetate	1	ND		10.0	
75-01-4	Vinyl chloride	1	ND		5.00	
	m&p-Xylene	1	ND		5.00	
95-47-6	o-Xylene	1	ND		5.00	

57 compound(s) reported

3/21/2007 16:45:43

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: TB-GP-SB-02 **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502394 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82479

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/16/07 **Analyzed:** 02/16/07 23:17 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	10.0	
75-05-8	Acetonitrile	1	ND		100.	
107-02-8	Acrolein	1	ND		20.0	
107-13-1	Acrylonitrile	1	ND		20.0	
107-05-1	Allyl chloride	1	ND		10.0	
71-43-2	Benzene	1	ND		5.00	
75-27-4	Bromodichloromethane	1	ND		5.00	
75-25-2	Bromoform	1	ND		5.00	
74-83-9	Bromomethane	1	ND		5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	10.0	
75-15-0	Carbon disulfide	1	ND		5.00	
56-23-5	Carbon tetrachloride	1	ND		5.00	
108-90-7	Chlorobenzene	1	ND		5.00	
75-00-3	Chloroethane	1	ND		5.00	
67-66-3	Chloroform	1	ND		5.00	
74-87-3	Chloromethane	1	ND		5.00	
126-99-8	Chloroprene	1	ND		5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.00	
124-48-1	Dibromochloromethane	1	ND		5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		5.00	
74-95-3	Dibromomethane	1	ND		5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		5.00	
75-71-8	Dichlorodifluoromethane	1	ND		5.00	
75-34-3	1,1-Dichloroethane	1	ND		5.00	
107-06-2	1,2-Dichloroethane	1	ND		5.00	
75-35-4	1,1-Dichloroethene	1	ND		5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00	
78-87-5	1,2-Dichloropropane	1	ND		5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		250.	
100-41-4	Ethylbenzene	1	ND		5.00	
97-63-2	Ethyl methacrylate	1	ND		10.0	

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U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: TB-GP-SB-02 **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502394 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82479

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/16/07 **Analyzed:** 02/16/07 23:17 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		10.0	
74-88-4	Iodomethane	1	ND		5.00	
78-83-1	Isobutanol	1	ND		250.	
126-98-7	Methacrylonitrile	1	ND		100.	
75-09-2	Methylene chloride	1	ND	A11	5.00	
80-62-6	Methyl methacrylate	1	ND		10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0	
107-12-0	Propionitrile	1	ND		20.0	
100-42-5	Styrene	1	ND		5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00	
127-18-4	Tetrachloroethene	1	ND		5.00	
108-88-3	Toluene	1	ND		5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		5.00	
79-01-6	Trichloroethene	1	ND		5.00	
75-69-4	Trichlorofluoromethane	1	ND		5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		5.00	
108-05-4	Vinyl acetate	1	ND		10.0	
75-01-4	Vinyl chloride	1	ND		5.00	
	m&p-Xylene	1	ND		5.00	
95-47-6	o-Xylene	1	ND		5.00	

57 compound(s) reported

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-FB-01 **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502395 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82479

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/16/07 **Analyzed:** 02/16/07 23:36 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	10.0	
75-05-8	Acetonitrile	1	ND		100.	
107-02-8	Acrolein	1	ND		20.0	
107-13-1	Acrylonitrile	1	ND		20.0	
107-05-1	Allyl chloride	1	ND		10.0	
71-43-2	Benzene	1	ND		5.00	
75-27-4	Bromodichloromethane	1	ND		5.00	
75-25-2	Bromoform	1	ND		5.00	
74-83-9	Bromomethane	1	ND		5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	10.0	
75-15-0	Carbon disulfide	1	ND		5.00	
56-23-5	Carbon tetrachloride	1	ND		5.00	
108-90-7	Chlorobenzene	1	ND		5.00	
75-00-3	Chloroethane	1	ND		5.00	
67-66-3	Chloroform	1	ND		5.00	
74-87-3	Chloromethane	1	ND		5.00	
126-99-8	Chloroprene	1	ND		5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.00	
124-48-1	Dibromochloromethane	1	ND		5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		5.00	
74-95-3	Dibromomethane	1	ND		5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		5.00	
75-71-8	Dichlorodifluoromethane	1	ND		5.00	
75-34-3	1,1-Dichloroethane	1	ND		5.00	
107-06-2	1,2-Dichloroethane	1	ND		5.00	
75-35-4	1,1-Dichloroethene	1	ND		5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00	
78-87-5	1,2-Dichloropropane	1	ND		5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		250.	
100-41-4	Ethylbenzene	1	ND		5.00	
97-63-2	Ethyl methacrylate	1	ND		10.0	

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-FB-01 **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502395 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82479

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/16/07 **Analyzed:** 02/16/07 23:36 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		10.0	
74-88-4	Iodomethane	1	ND		5.00	
78-83-1	Isobutanol	1	ND		250.	
126-98-7	Methacrylonitrile	1	ND		100.	
75-09-2	Methylene chloride	1	ND	A11	5.00	
80-62-6	Methyl methacrylate	1	ND		10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0	
107-12-0	Propionitrile	1	ND		20.0	
100-42-5	Styrene	1	ND		5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00	
127-18-4	Tetrachloroethene	1	ND		5.00	
108-88-3	Toluene	1	ND		5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		5.00	
79-01-6	Trichloroethene	1	ND		5.00	
75-69-4	Trichlorofluoromethane	1	ND		5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		5.00	
108-05-4	Vinyl acetate	1	ND		10.0	
75-01-4	Vinyl chloride	1	ND		5.00	
	m&p-Xylene	1	ND		5.00	
95-47-6	o-Xylene	1	ND		5.00	

57 compound(s) reported

3/21/2007 16:45:43

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-FB-02 | **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 | **Project No.:** 2066873 | **Sample Qu:**

Lab ID: 20502396 | **Matrix:** Water | **% Moisture:** n/a

Description: None | **Prep Level:** Water | **Batch:** 82479

Method: 8260 VOAs Water | **Units:** ug/L | **Target List:** 8260_WL20

Collected: 02/14/07 | **Received:** 02/15/07

Prep Factor: 1 | **Prepared:** 02/21/07 | **Analyzed:** 02/21/07 14:15 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	10.0	
75-05-8	Acetonitrile	1	ND		100.	
107-02-8	Acrolein	1	ND		20.0	
107-13-1	Acrylonitrile	1	ND		20.0	
107-05-1	Allyl chloride	1	ND		10.0	
71-43-2	Benzene	1	ND		5.00	
75-27-4	Bromodichloromethane	1	ND		5.00	
75-25-2	Bromoform	1	ND		5.00	
74-83-9	Bromomethane	1	ND		5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	10.0	
75-15-0	Carbon disulfide	1	ND		5.00	
56-23-5	Carbon tetrachloride	1	ND		5.00	
108-90-7	Chlorobenzene	1	ND		5.00	
75-00-3	Chloroethane	1	ND		5.00	
67-66-3	Chloroform	1	ND		5.00	
74-87-3	Chloromethane	1	ND		5.00	
126-99-8	Chloroprene	1	ND		5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.00	
124-48-1	Dibromochloromethane	1	ND		5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		5.00	
74-95-3	Dibromomethane	1	ND		5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		5.00	
75-71-8	Dichlorodifluoromethane	1	ND		5.00	
75-34-3	1,1-Dichloroethane	1	ND		5.00	
107-06-2	1,2-Dichloroethane	1	ND		5.00	
75-35-4	1,1-Dichloroethene	1	ND		5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00	
78-87-5	1,2-Dichloropropane	1	ND		5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		250.	
100-41-4	Ethylbenzene	1	ND		5.00	
97-63-2	Ethyl methacrylate	1	ND		10.0	

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-FB-02 | **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 | **Project No.:** 2066873 | **Sample Qu:**

Lab ID: 20502396 | **Matrix:** Water | **% Moisture:** n/a

Description: None | **Prep Level:** Water | **Batch:** 82479

Method: 8260 VOAs Water | **Units:** ug/L | **Target List:** 8260_WL20

Collected: 02/14/07 | **Received:** 02/15/07

Prep Factor: 1 | **Prepared:** 02/21/07 | **Analyzed:** 02/21/07 14:15 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		10.0	
74-88-4	Iodomethane	1	ND		5.00	
78-83-1	Isobutanol	1	ND		250.	
126-98-7	Methacrylonitrile	1	ND		100.	
75-09-2	Methylene chloride	1	ND	A11	5.00	
80-62-6	Methyl methacrylate	1	ND		10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0	
107-12-0	Propionitrile	1	ND		20.0	
100-42-5	Styrene	1	ND		5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00	
127-18-4	Tetrachloroethene	1	ND		5.00	
108-88-3	Toluene	1	ND		5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		5.00	
79-01-6	Trichloroethene	1	ND		5.00	
75-69-4	Trichlorofluoromethane	1	ND		5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		5.00	
108-05-4	Vinyl acetate	1	ND		10.0	
75-01-4	Vinyl chloride	1	ND		5.00	
	m&p-Xylene	1	ND		5.00	
95-47-6	o-Xylene	1	ND		5.00	

57 compound(s) reported

3/21/2007 16:45:44

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1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-RB-01 **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502397 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82479

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/21/07 **Analyzed:** 02/21/07 14:34 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	10.0	
75-05-8	Acetonitrile	1	ND		100.	
107-02-8	Acrolein	1	ND		20.0	
107-13-1	Acrylonitrile	1	ND		20.0	
107-05-1	Allyl chloride	1	ND		10.0	
71-43-2	Benzene	1	ND		5.00	
75-27-4	Bromodichloromethane	1	ND		5.00	
75-25-2	Bromoform	1	ND		5.00	
74-83-9	Bromomethane	1	ND		5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	10.0	
75-15-0	Carbon disulfide	1	ND		5.00	
56-23-5	Carbon tetrachloride	1	ND		5.00	
108-90-7	Chlorobenzene	1	ND		5.00	
75-00-3	Chloroethane	1	ND		5.00	
67-66-3	Chloroform	1	ND		5.00	
74-87-3	Chloromethane	1	ND		5.00	
126-99-8	Chloroprene	1	ND		5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.00	
124-48-1	Dibromochloromethane	1	ND		5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		5.00	
74-95-3	Dibromomethane	1	ND		5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		5.00	
75-71-8	Dichlorodifluoromethane	1	ND		5.00	
75-34-3	1,1-Dichloroethane	1	ND		5.00	
107-06-2	1,2-Dichloroethane	1	ND		5.00	
75-35-4	1,1-Dichloroethene	1	ND		5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00	
78-87-5	1,2-Dichloropropane	1	ND		5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		250.	
100-41-4	Ethylbenzene	1	ND		5.00	
97-63-2	Ethyl methacrylate	1	ND		10.0	

3/21/2007 16:45:44

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Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health .Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

Pace Analytical
New Orleans Laboratory

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-RB-01 **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502397 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82479

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/21/07 **Analyzed:** 02/21/07 14:34 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		10.0	
74-88-4	Iodomethane	1	ND		5.00	
78-83-1	Isobutanol	1	ND		250.	
126-98-7	Methacrylonitrile	1	ND		100.	
75-09-2	Methylene chloride	1	ND	A11	5.00	
80-62-6	Methyl methacrylate	1	ND		10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0	
107-12-0	Propionitrile	1	ND		20.0	
100-42-5	Styrene	1	ND		5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00	
127-18-4	Tetrachloroethene	1	ND		5.00	
108-88-3	Toluene	1	ND		5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		5.00	
79-01-6	Trichloroethene	1	ND		5.00	
75-69-4	Trichlorofluoromethane	1	ND		5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		5.00	
108-05-4	Vinyl acetate	1	ND		10.0	
75-01-4	Vinyl chloride	1	ND		5.00	
	m&p-Xylene	1	ND		5.00	
95-47-6	o-Xylene	1	ND		5.00	

57 compound(s) reported

3/21/2007 16:45:44

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-RB-01 **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502397 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82377

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/19/07 **Analyzed:** 02/23/07 15:32 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		10.0	
1912-24-9	Atrazine	1	ND		10.0	
21725-46-2	Cyanazine	1	ND		10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		10.0	
100-02-7	4-Nitrophenol	1	ND		10.0	
87-86-5	Pentachlorophenol	1	ND		10.0	

6 compound(s) reported

3/21/2007 16:45:44

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-RB-02 **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502398 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82479

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/21/07 **Analyzed:** 02/21/07 14:53 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	10.0	
75-05-8	Acetonitrile	1	ND		100.	
107-02-8	Acrolein	1	ND		20.0	
107-13-1	Acrylonitrile	1	ND		20.0	
107-05-1	Allyl chloride	1	ND		10.0	
71-43-2	Benzene	1	ND		5.00	
75-27-4	Bromodichloromethane	1	ND		5.00	
75-25-2	Bromoform	1	ND		5.00	
74-83-9	Bromomethane	1	ND		5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	10.0	
75-15-0	Carbon disulfide	1	ND		5.00	
56-23-5	Carbon tetrachloride	1	ND		5.00	
108-90-7	Chlorobenzene	1	ND		5.00	
75-00-3	Chloroethane	1	ND		5.00	
67-66-3	Chloroform	1	ND		5.00	
74-87-3	Chloromethane	1	ND		5.00	
126-99-8	Chloroprene	1	ND		5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.00	
124-48-1	Dibromochloromethane	1	ND		5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		5.00	
74-95-3	Dibromomethane	1	ND		5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		5.00	
75-71-8	Dichlorodifluoromethane	1	ND		5.00	
75-34-3	1,1-Dichloroethane	1	ND		5.00	
107-06-2	1,2-Dichloroethane	1	ND		5.00	
75-35-4	1,1-Dichloroethene	1	ND		5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00	
78-87-5	1,2-Dichloropropane	1	ND		5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		250.	
100-41-4	Ethylbenzene	1	ND		5.00	
97-63-2	Ethyl methacrylate	1	ND		10.0	

3/21/2007 16:45:44

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-RB-02 | **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 | **Project No.:** 2066873 | **Sample Qu:**

Lab ID: 20502398 | **Matrix:** Water | **% Moisture:** n/a

Description: None | **Prep Level:** Water | **Batch:** 82479

Method: 8260 VOAs Water | **Units:** ug/L | **Target List:** 8260_WL20

Collected: 02/14/07 | **Received:** 02/15/07

Prep Factor: 1 | **Prepared:** 02/21/07 | **Analyzed:** 02/21/07 14:53 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		10.0	
74-88-4	Iodomethane	1	ND		5.00	
78-83-1	Isobutanol	1	ND		250.	
126-98-7	Methacrylonitrile	1	ND		100.	
75-09-2	Methylene chloride	1	ND	A11	5.00	
80-62-6	Methyl methacrylate	1	ND		10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0	
107-12-0	Propionitrile	1	ND		20.0	
100-42-5	Styrene	1	ND		5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00	
127-18-4	Tetrachloroethene	1	ND		5.00	
108-88-3	Toluene	1	ND		5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		5.00	
79-01-6	Trichloroethene	1	ND		5.00	
75-69-4	Trichlorofluoromethane	1	ND		5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		5.00	
108-05-4	Vinyl acetate	1	ND		10.0	
75-01-4	Vinyl chloride	1	ND		5.00	
	m&p-Xylene	1	ND		5.00	
95-47-6	o-Xylene	1	ND		5.00	

57 compound(s) reported

3/21/2007 16:45:44

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Phone: 504.469.0333
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LELAP # 02006

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-RB-02 **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502398 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82564

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/21/07 **Analyzed:** 03/02/07 17:16 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		10.0	
1912-24-9	Atrazine	1	ND		10.0	
21725-46-2	Cyanazine	1	ND		10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		10.0	
100-02-7	4-Nitrophenol	1	ND		10.0	
87-86-5	Pentachlorophenol	1	ND		10.0	

6 compound(s) reported

3/21/2007 16:45:44

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-01 (0-2)
Site: None
Project: MS BLUFFS/LA002656.0001 & 12
Project No.: 2066873
Sample Qu:
Lab ID: 20502312
Matrix: Soil
% Moisture: 15 Corrected
Description: None
Prep Level: Soil
Batch: 82701
Method: 8081 Pests Low Soil
Units: ug/kg
Target List: 8081_SL20
Collected: 02/13/07
Received: 02/15/07
Prep Factor: 1
Prepared: 02/23/07
Analyzed: 03/07/07 19:41 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		78.5	

1 compound(s) reported

3/21/2007 16:45:48

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-01 (0-2)
Site: None
Project: MS BLUFFS/LA002656.0001 & 12
Project No.: 2066873
Sample Qu:
Lab ID: 20502312
Matrix: Soil
% Moisture: 15 Corrected
Description: None
Prep Level: Soil
Batch: 82734
Method: 8151 Herbs Low Soil
Units: ug/kg
Target List: 8151_SL20
Collected: 02/13/07
Received: 02/15/07
Prep Factor: 1
Prepared: 02/26/07
Analyzed: 03/20/07 21:49 SRA (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND		47.1	

1 compound(s) reported

3/21/2007 16:45:48

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-01 (2-4)
Site: None
Project: MS BLUFFS/LA002656.0001 & 12
Project No.: 2066873
Sample Qu:
Lab ID: 20502313
Matrix: Soil
% Moisture: 16 Corrected
Description: None
Prep Level: Soil
Batch: 82701
Method: 8081 Pests Low Soil
Units: ug/kg
Target List: 8081_SL20
Collected: 02/13/07
Received: 02/15/07
Prep Factor: 1
Prepared: 02/23/07
Analyzed: 02/28/07 00:01 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		79.4	

1 compound(s) reported

3/21/2007 16:45:48

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-01 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502313 **Matrix:** Soil **% Moisture:** 16 Corrected

Description: None **Prep Level:** Soil **Batch:** 82734

Method: 8151 Herbs Low Soil **Units:** ug/kg **Target List:** 8151_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/26/07 **Analyzed:** 03/08/07 20:55 SPP1 (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND	N	47.6	

1 compound(s) reported

3/21/2007 16:45:48

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-02 (0-2)
Site: None
Project: MS BLUFFS/LA002656.0001 & 12
Project No.: 2066873
Sample Qu:
Lab ID: 20502314
Matrix: Soil
% Moisture: 12 Corrected
Description: None
Prep Level: Soil
Batch: 82701
Method: 8081 Pests Low Soil
Units: ug/kg
Target List: 8081_SL20
Collected: 02/13/07
Received: 02/15/07
Prep Factor: 1
Prepared: 02/23/07
Analyzed: 03/07/07 19:57 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	868.		75.8	

1 compound(s) reported

3/21/2007 16:45:48

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Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-02 (0-2)
Site: None
Project: MS BLUFFS/LA002656.0001 & 12
Project No.: 2066873
Sample Qu:
Lab ID: 20502314
Matrix: Soil
% Moisture: 12 Corrected
Description: None
Prep Level: Soil
Batch: 82734
Method: 8151 Herbs Low Soil
Units: ug/kg
Target List: 8151 SL20
Collected: 02/13/07
Received: 02/15/07
Prep Factor: 1
Prepared: 02/26/07
Analyzed: 03/08/07 21:23 SPP1 (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND	N	45.4	

1 compound(s) reported

3/21/2007 16:45:48

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-02 (2-4)
Site: None
Project: MS BLUFFS/LA002656.0001 & 12
Project No.: 2066873
Sample Qu:
Lab ID: 20502315
Matrix: Soil
% Moisture: 18.8 Corrected
Description: None
Prep Level: Soil
Batch: 82701
Method: 8081 Pests Low Soil
Units: ug/kg
Target List: 8081_SL20
Collected: 02/13/07
Received: 02/15/07
Prep Factor: 1
Prepared: 02/23/07
Analyzed: 02/28/07 00:34 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		82.1	

1 compound(s) reported

3/21/2007 16:45:48

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-02 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502315 **Matrix:** Soil **% Moisture:** 18.8 Corrected

Description: None **Prep Level:** Soil **Batch:** 82734

Method: 8151 Herbs Low Soil **Units:** ug/kg **Target List:** 8151_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/26/07 **Analyzed:** 03/08/07 21:50 SPP1 (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND	N	49.3	

1 compound(s) reported

3/21/2007 16:45:48

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-03 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502316 **Matrix:** Soil **% Moisture:** 12.9 Corrected

Description: None **Prep Level:** Soil **Batch:** 82701

Method: 8081 Pests Low Soil **Units:** ug/kg **Target List:** 8081_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/23/07 **Analyzed:** 02/28/07 00:51 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		76.6	

1 compound(s) reported

3/21/2007 16:45:48

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-03 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502316 **Matrix:** Soil **% Moisture:** 12.9 Corrected

Description: None **Prep Level:** Soil **Batch:** 82734

Method: 8151 Herbs Low Soil **Units:** ug/kg **Target List:** 8151_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/26/07 **Analyzed:** 03/08/07 22:18 SPP1 (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND	N	45.9	

1 compound(s) reported

3/21/2007 16:45:48

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-03 (4-6) | **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 | **Project No.:** 2066873 | **Sample Qu:**

Lab ID: 20502317 | **Matrix:** Soil | **% Moisture:** 19.7 Corrected

Description: None | **Prep Level:** Soil | **Batch:** 82701

Method: 8081 Pests Low Soil | **Units:** ug/kg | **Target List:** 8081_SL20

Collected: 02/13/07 | **Received:** 02/15/07

Prep Factor: 1 | **Prepared:** 02/23/07 | **Analyzed:** 02/28/07 01:07 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		83.1	

1 compound(s) reported

3/21/2007 16:45:49

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-03 (4-6) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502317 **Matrix:** Soil **% Moisture:** 19.7 Corrected

Description: None **Prep Level:** Soil **Batch:** 82734

Method: 8151 Herbs Low Soil **Units:** ug/kg **Target List:** 8151_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/26/07 **Analyzed:** 03/08/07 22:46 SPP1 (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND	N	49.8	

1 compound(s) reported

3/21/2007 16:45:49

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-04 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502318 **Matrix:** Soil **% Moisture:** 18.8 Corrected

Description: None **Prep Level:** Soil **Batch:** 82701

Method: 8081 Pests Low Soil **Units:** ug/kg **Target List:** 8081_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/23/07 **Analyzed:** 02/28/07 01:24 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		82.1	

1 compound(s) reported

3/21/2007 16:45:49

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-04 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502318 **Matrix:** Soil **% Moisture:** 18.8 Corrected

Description: None **Prep Level:** Soil **Batch:** 82734

Method: 8151 Herbs Low Soil **Units:** ug/kg **Target List:** 8151_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/26/07 **Analyzed:** 03/08/07 23:13 SPP1 (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND	N	49.2	

1 compound(s) reported

3/21/2007 16:45:49

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-04 (4-6) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502319 **Matrix:** Soil **% Moisture:** 19.6 Corrected

Description: None **Prep Level:** Soil **Batch:** 82701

Method: 8081 Pests Low Soil **Units:** ug/kg **Target List:** 8081_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/23/07 **Analyzed:** 03/07/07 20:30 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		83.0	

1 compound(s) reported

3/21/2007 16:45:49

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-04 (4-6) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502319 **Matrix:** Soil **% Moisture:** 19.6 Corrected

Description: None **Prep Level:** Soil **Batch:** 82734

Method: 8151 Herbs Low Soil **Units:** ug/kg **Target List:** 8151_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/26/07 **Analyzed:** 03/08/07 23:41 SPP1 (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND	N	49.8	

1 compound(s) reported

3/21/2007 16:45:49

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-05 (0-2)
Site: None
Project: MS BLUFFS/LA002656.0001 & 12
Project No.: 2066873
Sample Qu:
Lab ID: 20502320
Matrix: Soil
% Moisture: 21.7 Corrected
Description: None
Prep Level: Soil
Batch: 82701
Method: 8081 Pests Low Soil
Units: ug/kg
Target List: 8081_SL20
Collected: 02/13/07
Received: 02/15/07
Prep Factor: 1
Prepared: 02/23/07
Analyzed: 02/28/07 01:57 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		85.2	

1 compound(s) reported

3/21/2007 16:45:49

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-05 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502320 **Matrix:** Soil **% Moisture:** 21.7 Corrected

Description: None **Prep Level:** Soil **Batch:** 82734

Method: 8151 Herbs Low Soil **Units:** ug/kg **Target List:** 8151_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/26/07 **Analyzed:** 03/15/07 12:23 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND		51.1	

1 compound(s) reported

3/21/2007 16:45:49

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-05 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502321 **Matrix:** Soil **% Moisture:** 22.4 Corrected

Description: None **Prep Level:** Soil **Batch:** 82701

Method: 8081 Pests Low Soil **Units:** ug/kg **Target List:** 8081_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/23/07 **Analyzed:** 02/28/07 02:13 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		86.0	

1 compound(s) reported

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3/21/2007 16:45:49

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-05 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502321 **Matrix:** Soil **% Moisture:** 22.4 Corrected

Description: None **Prep Level:** Soil **Batch:** 82734

Method: 8151 Herbs Low Soil **Units:** ug/kg **Target List:** 8151_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/26/07 **Analyzed:** 03/20/07 22:17 SRA (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND		51.6	

1 compound(s) reported

3/21/2007 16:45:49

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-06 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502322 **Matrix:** Soil **% Moisture:** 16.8 Corrected

Description: None **Prep Level:** Soil **Batch:** 82701

Method: 8081 Pests Low Soil **Units:** ug/kg **Target List:** 8081_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/23/07 **Analyzed:** 02/28/07 15:25 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		80.2	

1 compound(s) reported

3/21/2007 16:45:49

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-06 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502322 **Matrix:** Soil **% Moisture:** 16.8 Corrected

Description: None **Prep Level:** Soil **Batch:** 82734

Method: 8151 Herbs Low Soil **Units:** ug/kg **Target List:** 8151_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/26/07 **Analyzed:** 03/15/07 13:18 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND		48.1	

1 compound(s) reported

3/21/2007 16:45:50

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-06 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502323 **Matrix:** Soil **% Moisture:** 23.8 Corrected

Description: None **Prep Level:** Soil **Batch:** 82701

Method: 8081 Pests Low Soil **Units:** ug/kg **Target List:** 8081_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/23/07 **Analyzed:** 02/28/07 15:41 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		87.5	

1 compound(s) reported

3/21/2007 16:45:50

ND denotes Not Detected at or above the adjusted reporting limit.
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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-06 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502323 **Matrix:** Soil **% Moisture:** 23.8 Corrected

Description: None **Prep Level:** Soil **Batch:** 82734

Method: 8151 Herbs Low Soil **Units:** ug/kg **Target List:** 8151_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/26/07 **Analyzed:** 03/15/07 13:45 SLE (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND	N	52.5	

1 compound(s) reported

3/21/2007 16:45:50

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-06 (2-4)
Site: None
Project: MS BLUFFS/LA002656.0001 & 12
Project No.: 2066873
Sample Qu:
Lab ID: 20502323RE1
Matrix: Soil
% Moisture: 23.8 Corrected
Description: None
Prep Level: Soil
Batch: 83529
Method: 8151 Herbs Low Soil
Units: ug/kg
Target List: 8151_SL20
Collected: 02/13/07
Received: 02/15/07
Prep Factor: 1
Prepared: 03/16/07
Analyzed: 03/19/07 17:12 SRA (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND	N	52.5	

1 compound(s) reported

3/21/2007 16:45:50

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-07 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502324 **Matrix:** Soil **% Moisture:** 23.3 Corrected

Description: None **Prep Level:** Soil **Batch:** 82701

Method: 8081 Pests Low Soil **Units:** ug/kg **Target List:** 8081_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/23/07 **Analyzed:** 03/07/07 20:47 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		87.0	

1 compound(s) reported

3/21/2007 16:45:50

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-07 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502324 **Matrix:** Soil **% Moisture:** 23.3 Corrected

Description: None **Prep Level:** Soil **Batch:** 82734

Method: 8151 Herbs Low Soil **Units:** ug/kg **Target List:** 8151_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/26/07 **Analyzed:** 03/15/07 14:12 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	10	ND	D2	522.	

1 compound(s) reported

3/21/2007 16:45:50

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-07 (2-4)
Site: None
Project: MS BLUFFS/LA002656.0001 & 12
Project No.: 2066873
Sample Qu:
Lab ID: 20502325
Matrix: Soil
% Moisture: 23.5 Corrected
Description: None
Prep Level: Soil
Batch: 82701
Method: 8081 Pests Low Soil
Units: ug/kg
Target List: 8081_SL20
Collected: 02/13/07
Received: 02/15/07
Prep Factor: 1
Prepared: 02/23/07
Analyzed: 02/28/07 16:14 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		87.2	

1 compound(s) reported

3/21/2007 16:45:50

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-07 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502325 **Matrix:** Soil **% Moisture:** 23.5 Corrected

Description: None **Prep Level:** Soil **Batch:** 82734

Method: 8151 Herbs Low Soil **Units:** ug/kg **Target List:** 8151_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/26/07 **Analyzed:** 03/15/07 14:40 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND		52.3	

1 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-DUP-01 **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502329 **Matrix:** Soil **% Moisture:** 19.8 Corrected

Description: None **Prep Level:** Soil **Batch:** 82701

Method: 8081 Pests Low Soil **Units:** ug/kg **Target List:** 8081_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/23/07 **Analyzed:** 02/28/07 16:31 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		83.2	

1 compound(s) reported

3/21/2007 16:45:50

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-DUP-01 **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502329 **Matrix:** Soil **% Moisture:** 19.8 Corrected

Description: None **Prep Level:** Soil **Batch:** 82734

Method: 8151 Herbs Low Soil **Units:** ug/kg **Target List:** 8151_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/26/07 **Analyzed:** 03/15/07 15:07 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	10	ND	D2	499.	

1 compound(s) reported

3/21/2007 16:45:50

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-08 (0-2)
Site: None
Project: MS BLUFFS/LA002656.0001 & 12
Project No.: 2066873
Sample Qu:
Lab ID: 20502330
Matrix: Soil
% Moisture: 12 Corrected
Description: None
Prep Level: Soil
Batch: 82701
Method: 8081 Pests Low Soil
Units: ug/kg
Target List: 8081 SL20
Collected: 02/13/07
Received: 02/15/07
Prep Factor: 1
Prepared: 02/23/07
Analyzed: 03/07/07 21:20 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		75.8	

1 compound(s) reported

3/21/2007 16:45:50

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Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-08 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502330 **Matrix:** Soil **% Moisture:** 12 Corrected

Description: None **Prep Level:** Soil **Batch:** 82734

Method: 8151 Herbs Low Soil **Units:** ug/kg **Target List:** 8151_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/26/07 **Analyzed:** 03/15/07 15:35 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND		45.5	

1 compound(s) reported

3/21/2007 16:45:51

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-08 (0-2)MS
Site: None
Project: MS BLUFFS/LA002656.0001 & 12
Project No.: 2066873
Sample Qu:
Lab ID: 20502330MS
Matrix: Soil
% Moisture: 12 Corrected
Description: None
Prep Level: Soil
Batch: 82734
Method: 8151 Herbs Low Soil MS
Units: ug/kg
Target List: 8151 MSL20
Collected: 02/13/07
Received: 02/15/07
Prep Factor: 1
Prepared: 02/26/07
Analyzed: 03/15/07 16:02 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	368.		45.5	

1 compound(s) reported

3/21/2007 16:45:51

ND denotes Not Detected at or above the adjusted reporting limit.
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-08 (0-2)MSD
Site: None
Project: MS BLUFFS/LA002656.0001 & 12
Project No.: 2066873
Sample Qu:
Lab ID: 20502330MSD
Matrix: Soil
% Moisture: 12 Corrected
Description: None
Prep Level: Soil
Batch: 82734
Method: 8151 Herbs Low Soil MS
Units: ug/kg
Target List: 8151 MSL20
Collected: 02/13/07
Received: 02/15/07
Prep Factor: 1
Prepared: 02/26/07
Analyzed: 03/15/07 16:29 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	156.		45.5	

1 compound(s) reported

3/21/2007 16:45:51

ND denotes Not Detected at or above the adjusted reporting limit.
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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-08 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502331 **Matrix:** Soil **% Moisture:** 21.1 Corrected

Description: None **Prep Level:** Soil **Batch:** 82701

Method: 8081 Pests Low Soil **Units:** ug/kg **Target List:** 8081_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/23/07 **Analyzed:** 02/28/07 16:47 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		84.6	

1 compound(s) reported

3/21/2007 16:45:51

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DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-08 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502331 **Matrix:** Soil **% Moisture:** 21.1 Corrected

Description: None **Prep Level:** Soil **Batch:** 82734

Method: 8151 Herbs Low Soil **Units:** ug/kg **Target List:** 8151 SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/26/07 **Analyzed:** 03/15/07 17:52 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND		50.7	

1 compound(s) reported

3/21/2007 16:45:51

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-09 (0-2) | **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 | **Project No.:** 2066873 | **Sample Qu:**

Lab ID: 20502332 | **Matrix:** Soil | **% Moisture:** 25.5 Corrected

Description: None | **Prep Level:** Soil | **Batch:** 82701

Method: 8081 Pests Low Soil | **Units:** ug/kg | **Target List:** 8081_SL20

Collected: 02/13/07 | **Received:** 02/15/07

Prep Factor: 1 | **Prepared:** 02/23/07 | **Analyzed:** 02/28/07 17:04 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		89.5	

1 compound(s) reported

3/21/2007 16:45:51

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DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-09 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502332 **Matrix:** Soil **% Moisture:** 25.5 Corrected

Description: None **Prep Level:** Soil **Batch:** 82734

Method: 8151 Herbs Low Soil **Units:** ug/kg **Target List:** 8151_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/26/07 **Analyzed:** 03/15/07 18:19 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND		53.7	

1 compound(s) reported

3/21/2007 16:45:51

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-09 (2-4)
Site: None
Project: MS BLUFFS/LA002656.0001 & 12
Project No.: 2066873
Sample Qu:
Lab ID: 20502333
Matrix: Soil
% Moisture: 10.8 Corrected
Description: None
Prep Level: Soil
Batch: 82701
Method: 8081 Pests Low Soil
Units: ug/kg
Target List: 8081_SL20
Collected: 02/13/07
Received: 02/15/07
Prep Factor: 1
Prepared: 02/23/07
Analyzed: 02/28/07 17:20 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		74.8	

1 compound(s) reported

3/21/2007 16:45:51

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-09 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502333 **Matrix:** Soil **% Moisture:** 10.8 Corrected

Description: None **Prep Level:** Soil **Batch:** 82734

Method: 8151 Herbs Low Soil **Units:** ug/kg **Target List:** 8151_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/26/07 **Analyzed:** 03/15/07 18:47 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND		44.9	

1 compound(s) reported

3/21/2007 16:45:51

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-10 (0-2)
Site: None
Project: MS BLUFFS/LA002656.0001 & 12
Project No.: 2066873
Sample Qu:
Lab ID: 20502334
Matrix: Soil
% Moisture: 20.8 Corrected
Description: None
Prep Level: Soil
Batch: 82701
Method: 8081 Pests Low Soil
Units: ug/kg
Target List: 8081_SL20
Collected: 02/13/07
Received: 02/15/07
Prep Factor: 1
Prepared: 02/23/07
Analyzed: 02/28/07 17:37 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		84.3	

1 compound(s) reported

3/21/2007 16:45:51

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-10 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502334 **Matrix:** Soil **% Moisture:** 20.8 Corrected

Description: None **Prep Level:** Soil **Batch:** 82734

Method: 8151 Herbs Low Soil **Units:** ug/kg **Target List:** 8151_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/26/07 **Analyzed:** 03/15/07 19:14 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND	N	50.5	

1 compound(s) reported

3/21/2007 16:45:52

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-10 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502334RE1 **Matrix:** Soil **% Moisture:** 20.8 Corrected

Description: None **Prep Level:** Soil **Batch:** 83529

Method: 8151 Herbs Low Soil **Units:** ug/kg **Target List:** 8151_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 03/16/07 **Analyzed:** 03/19/07 17:39 SRA (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND	N	50.5	

1 compound(s) reported

3/21/2007 16:45:52

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-10 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502335 **Matrix:** Soil **% Moisture:** 23.6 Corrected

Description: None **Prep Level:** Soil **Batch:** 82794

Method: 8081 Pests Low Soil **Units:** ug/kg **Target List:** 8081_SL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/27/07 **Analyzed:** 02/28/07 20:05 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		87.3	

1 compound(s) reported

3/21/2007 16:45:52

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-10 (2-4) | **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 | **Project No.:** 2066873 | **Sample Qu:**

Lab ID: 20502335 | **Matrix:** Soil | **% Moisture:** 23.6 Corrected

Description: None | **Prep Level:** Soil | **Batch:** 82795

Method: 8151 Herbs Low Soil | **Units:** ug/kg | **Target List:** 8151_SL20

Collected: 02/13/07 | **Received:** 02/15/07

Prep Factor: 1 | **Prepared:** 02/26/07 | **Analyzed:** 03/14/07 22:47 SPP1 (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND	N	52.4	

1 compound(s) reported

3/21/2007 16:45:52

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-10 (2-4)MS
Site: None

Project: MS BLUFFS/LA002656.0001 & 12
Project No.: 2066873
Sample Qu:

Lab ID: 20502335MS
Matrix: Soil
% Moisture: 23.6 Corrected

Description: None
Prep Level: Soil
Batch: 82795

Method: 8151 Herbs Low Soil MS
Units: ug/kg
Target List: 8151 MSL20

Collected: 02/13/07
Received: 02/15/07

Prep Factor: 1
Prepared: 02/26/07
Analyzed: 03/14/07 23:14 SPP1 (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND		52.4	

1 compound(s) reported

3/21/2007 16:45:52

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Kansas Dept. of Health Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Pace Analytical® New Orleans Laboratory

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-10 (2-4)MSD
Site: None
Project: MS BLUFFS/LA002656.0001 & 12
Project No.: 2066873
Sample Qu:
Lab ID: 20502335MSD
Matrix: Soil
% Moisture: 23.6 Corrected
Description: None
Prep Level: Soil
Batch: 82795
Method: 8151 Herbs Low Soil MS
Units: ug/kg
Target List: 8151 MSL20
Collected: 02/13/07
Received: 02/15/07
Prep Factor: 1
Prepared: 02/26/07
Analyzed: 03/14/07 23:42 SPP1 (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	112.		52.4	

1 compound(s) reported

3/21/2007 16:45:52

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-11 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502338 **Matrix:** Soil **% Moisture:** 19.2 Corrected

Description: None **Prep Level:** Soil **Batch:** 82794

Method: 8081 Pests Low Soil **Units:** ug/kg **Target List:** 8081_SL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/27/07 **Analyzed:** 02/28/07 20:22 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		82.5	

1 compound(s) reported

3/21/2007 16:45:52

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-11 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502338 **Matrix:** Soil **% Moisture:** 19.2 Corrected

Description: None **Prep Level:** Soil **Batch:** 82846

Method: 8151 Herbs Low Soil **Units:** ug/kg **Target List:** 8151_SL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/28/07 **Analyzed:** 03/17/07 03:58 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	463.	N	49.5	

1 compound(s) reported

3/21/2007 16:45:52

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-11 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502338RE1 **Matrix:** Soil **% Moisture:** 19.2 Corrected

Description: None **Prep Level:** Soil **Batch:** 83529

Method: 8151 Herbs Low Soil **Units:** ug/kg **Target List:** 8151_SL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 03/16/07 **Analyzed:** 03/19/07 18:07 SRA (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	278.	N	49.5	

1 compound(s) reported

3/21/2007 16:45:52

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-11 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502343 **Matrix:** Soil **% Moisture:** 19.3 Corrected

Description: None **Prep Level:** Soil **Batch:** 82794

Method: 8081 Pests Low Soil **Units:** ug/kg **Target List:** 8081_SL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/27/07 **Analyzed:** 03/07/07 21:36 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		82.7	

1 compound(s) reported

3/21/2007 16:45:52

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-11 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502343 **Matrix:** Soil **% Moisture:** 19.3 Corrected

Description: None **Prep Level:** Soil **Batch:** 82846

Method: 8151 Herbs Low Soil **Units:** ug/kg **Target List:** 8151_SL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/28/07 **Analyzed:** 03/17/07 07:09 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	10	2510	D1	496.	

1 compound(s) reported

3/21/2007 16:45:53

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-12 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502344 **Matrix:** Soil **% Moisture:** 26.6 Corrected

Description: None **Prep Level:** Soil **Batch:** 82794

Method: 8081 Pests Low Soil **Units:** ug/kg **Target List:** 8081_SL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/27/07 **Analyzed:** 03/07/07 21:53 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	1800		90.9	

1 compound(s) reported

3/21/2007 16:45:53

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-12 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502344 **Matrix:** Soil **% Moisture:** 26.6 Corrected

Description: None **Prep Level:** Soil **Batch:** 82846

Method: 8151 Herbs Low Soil **Units:** ug/kg **Target List:** 8151_SL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/28/07 **Analyzed:** 03/17/07 06:42 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	10	ND	D2	545.	

1 compound(s) reported

3/21/2007 16:45:53

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-12 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502383 **Matrix:** Soil **% Moisture:** 27.7 Corrected

Description: None **Prep Level:** Soil **Batch:** 82794

Method: 8081 Pests Low Soil **Units:** ug/kg **Target List:** 8081_SL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/27/07 **Analyzed:** 03/07/07 22:09 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	120.		92.3	

1 compound(s) reported

3/21/2007 16:45:53

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-12 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502383 **Matrix:** Soil **% Moisture:** 27.7 Corrected

Description: None **Prep Level:** Soil **Batch:** 82846

Method: 8151 Herbs Low Soil **Units:** ug/kg **Target List:** 8151_SL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/28/07 **Analyzed:** 03/16/07 22:57 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND		55.4	

1 compound(s) reported

3/21/2007 16:45:53

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-13 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502384 **Matrix:** Soil **% Moisture:** 14.6 Corrected

Description: None **Prep Level:** Soil **Batch:** 82794

Method: 8081 Pests Low Soil **Units:** ug/kg **Target List:** 8081_SL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/27/07 **Analyzed:** 02/28/07 21:28 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		78.1	

1 compound(s) reported

3/21/2007 16:45:53

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-13 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502384 **Matrix:** Soil **% Moisture:** 14.6 Corrected

Description: None **Prep Level:** Soil **Batch:** 82846

Method: 8151 Herbs Low Soil **Units:** ug/kg **Target List:** 8151_SL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/28/07 **Analyzed:** 03/16/07 20:13 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND		46.8	

1 compound(s) reported

3/21/2007 16:45:53

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-13 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502385 **Matrix:** Soil **% Moisture:** 18.7 Corrected

Description: None **Prep Level:** Soil **Batch:** 82794

Method: 8081 Pests Low Soil **Units:** ug/kg **Target List:** 8081_SL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/27/07 **Analyzed:** 03/17/07 12:22 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	10	9280	D1	821.	

1 compound(s) reported

3/21/2007 16:45:53

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-13 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502385 **Matrix:** Soil **% Moisture:** 18.7 Corrected

Description: None **Prep Level:** Soil **Batch:** 82846

Method: 8151 Herbs Low Soil **Units:** ug/kg **Target List:** 8151_SL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/28/07 **Analyzed:** 03/16/07 20:40 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND	N	49.2	

1 compound(s) reported

3/21/2007 16:45:53

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
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Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Pace Analytical® New Orleans Laboratory

		Client:	Arcadis Geraghty & Miller		
Client ID:	GP-SB-13 (2-4)	**Site:**	None		
Project:	MS BLUFFS/LA002656.0001 & 12	**Project No.:**	2066873	**Sample Qu:**	
Lab ID:	20502385RE1	**Matrix:**	Soil	**% Moisture:**	18.7 Corrected
Description:	None	**Prep Level:**	Soil	**Batch:**	83529
Method:	8151 Herbs Low Soil	**Units:**	ug/kg	**Target List:**	8151_SL20
		Collected:	02/14/07	**Received:**	02/15/07
Prep Factor:	1	**Prepared:**	03/16/07	**Analyzed:**	03/19/07 18:34 SRA (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND	N	49.2	

1 compound(s) reported

3/21/2007 16:45:53

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-14 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502386 **Matrix:** Soil **% Moisture:** 17.7 Corrected

Description: None **Prep Level:** Soil **Batch:** 82794

Method: 8081 Pests Low Soil **Units:** ug/kg **Target List:** 8081_SL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/27/07 **Analyzed:** 03/07/07 22:42 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		81.0	

1 compound(s) reported

3/21/2007 16:45:54

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-14 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502386 **Matrix:** Soil **% Moisture:** 17.7 Corrected

Description: None **Prep Level:** Soil **Batch:** 82846

Method: 8151 Herbs Low Soil **Units:** ug/kg **Target List:** 8151_SL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/28/07 **Analyzed:** 03/16/07 21:08 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	10	ND	D2	486.	

1 compound(s) reported

3/21/2007 16:45:54

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-14 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502387 **Matrix:** Soil **% Moisture:** 17.3 Corrected

Description: None **Prep Level:** Soil **Batch:** 82794

Method: 8081 Pests Low Soil **Units:** ug/kg **Target List:** 8081_SL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/27/07 **Analyzed:** 03/07/07 22:59 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		80.7	

1 compound(s) reported

3/21/2007 16:45:54

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-14 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502387 **Matrix:** Soil **% Moisture:** 17.3 Corrected

Description: None **Prep Level:** Soil **Batch:** 82846

Method: 8151 Herbs Low Soil **Units:** ug/kg **Target List:** 8151_SL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/28/07 **Analyzed:** 03/16/07 21:35 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	10	ND	D2	484.	

1 compound(s) reported

3/21/2007 16:45:54

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-15 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502388 **Matrix:** Soil **% Moisture:** 16.9 Corrected

Description: None **Prep Level:** Soil **Batch:** 82794

Method: 8081 Pests Low Soil **Units:** ug/kg **Target List:** 8081 SL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/27/07 **Analyzed:** 03/07/07 23:15 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		80.3	

1 compound(s) reported

3/21/2007 16:45:54

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-15 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502388 **Matrix:** Soil **% Moisture:** 16.9 Corrected

Description: None **Prep Level:** Soil **Batch:** 82846

Method: 8151 Herbs Low Soil **Units:** ug/kg **Target List:** 8151_SL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/28/07 **Analyzed:** 03/16/07 22:02 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	10	ND	D2	481.	

1 compound(s) reported

3/21/2007 16:45:54

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-15 (2-4)
Site: None
Project: MS BLUFFS/LA002656.0001 & 12
Project No.: 2066873
Sample Qu:
Lab ID: 20502389
Matrix: Soil
% Moisture: 17.6 Corrected
Description: None
Prep Level: Soil
Batch: 82794
Method: 8081 Pests Low Soil
Units: ug/kg
Target List: 8081_SL20
Collected: 02/14/07
Received: 02/15/07
Prep Factor: 1
Prepared: 02/27/07
Analyzed: 03/07/07 23:31 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	747.		80.9	

1 compound(s) reported

3/21/2007 16:45:54

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-15 (2-4)
Site: None
Project: MS BLUFFS/LA002656.0001 & 12
Project No.: 2066873
Sample Qu:
Lab ID: 20502389
Matrix: Soil
% Moisture: 17.6 Corrected
Description: None
Prep Level: Soil
Batch: 82846
Method: 8151 Herbs Low Soil
Units: ug/kg
Target List: 8151_SL20
Collected: 02/14/07
Received: 02/15/07
Prep Factor: 1
Prepared: 02/28/07
Analyzed: 03/16/07 22:30 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	10	ND	D2	485.	

1 compound(s) reported

3/21/2007 16:45:54

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-DUP-02 **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502390 **Matrix:** Soil **% Moisture:** 17.4 Corrected

Description: None **Prep Level:** Soil **Batch:** 82794

Method: 8081 Pests Low Soil **Units:** ug/kg **Target List:** 8081_SL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/27/07 **Analyzed:** 03/07/07 23:48 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		80.8	

1 compound(s) reported

3/21/2007 16:45:54

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-DUP-02 **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502390 **Matrix:** Soil **% Moisture:** 17.4 Corrected

Description: None **Prep Level:** Soil **Batch:** 82846

Method: 8151 Herbs Low Soil **Units:** ug/kg **Target List:** 8151_SL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/28/07 **Analyzed:** 03/17/07 07:37 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	10	ND	D2	484.	

1 compound(s) reported

3/21/2007 16:45:54

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-16 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502391 **Matrix:** Soil **% Moisture:** 15.1 Corrected

Description: None **Prep Level:** Soil **Batch:** 82794

Method: 8081 Pests Low Soil **Units:** ug/kg **Target List:** 8081_SL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/27/07 **Analyzed:** 03/15/07 11:57 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	100	25800	D1	7860	

1 compound(s) reported

3/21/2007 16:45:54

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LELAP # 02006

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-16 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502391 **Matrix:** Soil **% Moisture:** 15.1 Corrected

Description: None **Prep Level:** Soil **Batch:** 82846

Method: 8151 Herbs Low Soil **Units:** ug/kg **Target List:** 8151_SL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/28/07 **Analyzed:** 03/17/07 05:20 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	20	ND	D2	943.	

1 compound(s) reported

3/21/2007 16:45:55

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-16 (0-2)MS
Site: None
Project: MS BLUFFS/LA002656.0001 & 12
Project No.: 2066873
Sample Qu:
Lab ID: 20502391MS
Matrix: Soil
% Moisture: 15.1 Corrected
Description: None
Prep Level: Soil
Batch: 82846
Method: 8151 Herbs Low Soil MS
Units: ug/kg
Target List: 8151 MSL20
Collected: 02/14/07
Received: 02/15/07
Prep Factor: 1
Prepared: 02/28/07
Analyzed: 03/17/07 05:47 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	20	ND		943.	

1 compound(s) reported

3/21/2007 16:45:55

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
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Kansas Dept. of Health .Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

Report of Laboratory Analysis

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Pace Analytical® New Orleans Laboratory

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-16 (0-2)MSD | **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 | **Project No.:** 2066873 | **Sample Qu:**

Lab ID: 20502391MSD | **Matrix:** Soil | **% Moisture:** 15.1 Corrected

Description: None | **Prep Level:** Soil | **Batch:** 82846

Method: 8151 Herbs Low Soil MS | **Units:** ug/kg | **Target List:** 8151 MSL20

Collected: 02/14/07 | **Received:** 02/15/07

Prep Factor: 1 | **Prepared:** 02/28/07 | **Analyzed:** 03/17/07 06:15 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	20	ND	Q1	943.	

1 compound(s) reported

3/21/2007 16:45:55

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LELAP # 02006

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-16 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502392 **Matrix:** Soil **% Moisture:** 15.9 Corrected

Description: None **Prep Level:** Soil **Batch:** 82794

Method: 8081 Pests Low Soil **Units:** ug/kg **Target List:** 8081_SL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/27/07 **Analyzed:** 02/28/07 23:23 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		79.3	

1 compound(s) reported

3/21/2007 16:45:55

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-16 (2-4) **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502392 **Matrix:** Soil **% Moisture:** 15.9 Corrected

Description: None **Prep Level:** Soil **Batch:** 82846

Method: 8151 Herbs Low Soil **Units:** ug/kg **Target List:** 8151_SL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/28/07 **Analyzed:** 03/16/07 23:24 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND		47.6	

1 compound(s) reported

3/21/2007 16:45:55

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DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-RB-01 **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502397 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82271

Method: 8081 Pests Water **Units:** ug/L **Target List:** 8081_WL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/19/07 **Analyzed:** 03/05/07 19:22 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		2.00	

1 compound(s) reported

3/21/2007 16:45:55

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DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
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For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-RB-01 **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502397 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82528

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 02/13/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/19/07 **Analyzed:** 02/28/07 10:00 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND		2.00	

1 compound(s) reported

3/21/2007 16:45:55

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-RB-02 **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502398 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82271

Method: 8081 Pests Water **Units:** ug/L **Target List:** 8081_WL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/19/07 **Analyzed:** 03/05/07 19:38 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		2.00	

1 compound(s) reported

3/21/2007 16:45:55

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit denotes an actual regulatory limit or a client-requested notification limit.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-RB-02 **Site:** None

Project: MS BLUFFS/LA002656.0001 & 12 **Project No.:** 2066873 **Sample Qu:**

Lab ID: 20502398 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82528

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 02/14/07 **Received:** 02/15/07

Prep Factor: 1 **Prepared:** 02/21/07 **Analyzed:** 02/28/07 09:05 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND		2.00	

1 compound(s) reported

3/21/2007 16:45:55

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DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
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Client ID: GP-SB-01 (0-2)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001 & 12
Site: None
Lab ID: 20502312
Project No.: 2066873
Description: None
Matrix: Soil
%Moisture: 15 Corrected
Collected: 02/13/07
Received: 02/15/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82455	1	ND		mg/kg	1.09	19-Feb-07	27-Feb-07 19:47	KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/21/2007 16:45:58

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LELAP # 02006

Client ID: GP-SB-01 (2-4)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001 & 12
Site: None
Lab ID: 20502313
Project No.: 2066873
Description: None
Matrix: Soil
%Moisture: 16 Corrected
Collected: 02/13/07
Received: 02/15/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82455	1	ND		mg/kg	1.17	19-Feb-07	27-Feb-07 19:52	KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/21/2007 16:45:58

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Client ID: GP-SB-02 (0-2)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001 & 12
Site: None
Lab ID: 20502314
Project No.: 2066873
Description: None
Matrix: Soil
%Moisture: 12 Corrected
Collected: 02/13/07
Received: 02/15/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82455	1	1.63		mg/kg	0.823	19-Feb-07	27-Feb-07 19:57	KJR (1)	

1 parameter(s) reported

3/21/2007 16:45:59

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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
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(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
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Client ID: GP-SB-02 (2-4)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001 & 12
Site: None
Lab ID: 20502315
Project No.: 2066873
Description: None
Matrix: Soil
%Moisture: 18.8 Corrected
Collected: 02/13/07
Received: 02/15/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82455	1	2.82		mg/kg	0.993	19-Feb-07	27-Feb-07 20:02	KJR (1)	

1 parameter(s) reported

3/21/2007 16:45:59

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Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
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(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
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Client ID: GP-SB-03 (2-4)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001 & 12
Site: None
Lab ID: 20502316
Project No.: 2066873
Description: None
Matrix: Soil
%Moisture: 12.9 Corrected
Collected: 02/13/07
Received: 02/15/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82455	1	1.59		mg/kg	1.15	19-Feb-07	27-Feb-07 20:17	KJR (1)	

1 parameter(s) reported

3/21/2007 16:45:59

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
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Client ID: GP-SB-03 (4-6)
Project: MS BLUFFS/LA002656.0001 & 12
Lab ID: 20502317
Description: None

Client: Arcadis Geraghty & Miller
Site: None
Project No.: 2066873
Matrix: Soil
%Moisture: 19.7 Corrected
Collected: 02/13/07
Received: 02/15/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82455	1	ND		mg/kg	1.06	19-Feb-07	27-Feb-07 20:22	KJR (1)	

1 parameter(s) reported

3/21/2007 16:45:59

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Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
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Client ID: GP-SB-04 (2-4)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001 & 12
Site: None
Lab ID: 20502318
Project No.: 2066873
Description: None
Matrix: Soil
%Moisture: 18.8 Corrected
Collected: 02/13/07
Received: 02/15/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82455	1	ND		mg/kg	1.10	19-Feb-07	27-Feb-07 20:26	KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/21/2007 16:45:59

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
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Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health_Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: GP-SB-04 (4-6)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001 & 12
Site: None
Lab ID: 20502319
Project No.: 2066873
Description: None
Matrix: Soil
%Moisture: 19.6 Corrected
Collected: 02/13/07
Received: 02/15/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82455	1	4.31		mg/kg	1.02	19-Feb-07	27-Feb-07 20:31	KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: GP-SB-05 (0-2)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001 & 12
Site: None
Lab ID: 20502320
Project No.: 2066873
Description: None
Matrix: Soil
%Moisture: 21.7 Corrected
Collected: 02/13/07
Received: 02/15/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82455	1	3.35		mg/kg	1.18	19-Feb-07	27-Feb-07 20:36	KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Client ID: GP-SB-05 (2-4)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001 & 12
Site: None
Lab ID: 20502321
Project No.: 2066873
Description: None
Matrix: Soil
%Moisture: 22.4 Corrected
Collected: 02/13/07
Received: 02/15/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82455	1	5.58		mg/kg	1.19	19-Feb-07	27-Feb-07 20:42	KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Phone: 504.469.0333
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LELAP # 02006

Client ID: GP-SB-06 (0-2)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001 & 12
Site: None
Lab ID: 20502322
Project No.: 2066873
Description: None
Matrix: Soil
%Moisture: 16.8 Corrected
Collected: 02/13/07
Received: 02/15/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82455	1	2.64		mg/kg	1.07	19-Feb-07	27-Feb-07 20:48	KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Phone: 504.469.0333
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LELAP # 02006

Client ID: GP-SB-06 (2-4)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001 & 12
Site: None
Lab ID: 20502323
Project No.: 2066873
Description: None
Matrix: Soil
%Moisture: 23.8 Corrected
Collected: 02/13/07
Received: 02/15/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82455	1	2.01		mg/kg	1.17	19-Feb-07	27-Feb-07 20:53	KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Client ID: GP-SB-07 (0-2)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001 & 12
Site: None
Lab ID: 20502324
Project No.: 2066873
Description: None
Matrix: Soil
%Moisture: 23.3 Corrected
Collected: 02/13/07
Received: 02/15/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82455	1	6.54		mg/kg	1.16	19-Feb-07	27-Feb-07 20:58	KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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LELAP # 02006

Client ID: GP-SB-07 (2-4)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001 & 12
Site: None
Lab ID: 20502325
Project No.: 2066873
Description: None
Matrix: Soil
%Moisture: 23.5 Corrected
Collected: 02/13/07
Received: 02/15/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82455	1	3.65		mg/kg	1.13	19-Feb-07	27-Feb-07 21:03	KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/21/2007 16:46:00

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Kansas Dept. of Health Environment - E-10266
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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: GP-SB-DUP-01 **Client:** Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.0001 & 12 **Site:** None

Lab ID: 20502329 **Project No.:** 2066873

Description: None **Matrix:** Soil **%Moisture:** 19.8 Corrected

Collected: 02/13/07 **Received:** 02/15/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82455	1	13.3		mg/kg	1.04	19-Feb-07	27-Feb-07 21:18	KJR (1)	

1 parameter(s) reported

3/21/2007 16:46:00

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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LELAP # 02006

Client ID: GP-SB-08 (0-2)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001 & 12
Site: None
Lab ID: 20502330
Project No.: 2066873
Description: None
Matrix: Soil
%Moisture: 12 Corrected
Collected: 02/13/07
Received: 02/15/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82455	1	4.07		mg/kg	0.902	19-Feb-07	27-Feb-07 19:25	KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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St. Rose , LA 70087

Phone: 504.469.0333
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LELAP # 02006

Client ID: GP-SB-08 (0-2)MS
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001 & 12
Site: None
Lab ID: 20502330MS
Project No.: 2066873
Description: None
Matrix: Soil
%Moisture: 12 Corrected
Collected: 02/13/07
Received: 02/15/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82455	1	83.9		mg/kg	0.902	19-Feb-07	27-Feb-07 19:30	KJR (1)	

1 parameter(s) reported

3/21/2007 16:46:00

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Phone: 504.469.0333
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LELAP # 02006

Client ID: GP-SB-08 (0-2)MSD
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001 & 12
Site: None
Lab ID: 20502330MSD
Project No.: 2066873
Description: None
Matrix: Soil
%Moisture: 12 Corrected
Collected: 02/13/07
Received: 02/15/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82455	1	95.0		mg/kg	1.07	19-Feb-07	27-Feb-07 19:35	KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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LELAP # 02006

Client ID: GP-SB-08 (2-4)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001 & 12
Site: None
Lab ID: 20502331
Project No.: 2066873
Description: None
Matrix: Soil
%Moisture: 21.1 Corrected
Collected: 02/13/07
Received: 02/15/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82455	1	ND		mg/kg	1.17	19-Feb-07	27-Feb-07 21:23	KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Phone: 504.469.0333
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Client ID: GP-SB-09 (0-2)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001 & 12
Site: None
Lab ID: 20502332
Project No.: 2066873
Description: None
Matrix: Soil
%Moisture: 25.5 Corrected
Collected: 02/13/07
Received: 02/15/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82455	1	ND		mg/kg	1.24	19-Feb-07	27-Feb-07 21:28	KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Phone: 504.469.0333
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Client ID: GP-SB-09 (2-4)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001 & 12
Site: None
Lab ID: 20502333
Project No.: 2066873
Description: None
Matrix: Soil
%Moisture: 10.8 Corrected
Collected: 02/13/07
Received: 02/15/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82455	1	ND		mg/kg	1.10	19-Feb-07	27-Feb-07 21:33	KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/21/2007 16:46:00

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: GP-SB-10 (0-2)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001 & 12
Site: None
Lab ID: 20502334
Project No.: 2066873
Description: None
Matrix: Soil
%Moisture: 20.8 Corrected
Collected: 02/13/07
Received: 02/15/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82455	1	ND		mg/kg	1.04	19-Feb-07	27-Feb-07 21:38	KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/21/2007 16:46:00

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Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: GP-SB-10 (2-4)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001 & 12
Site: None
Lab ID: 20502335
Project No.: 2066873
Description: None
Matrix: Soil
%Moisture: 23.6 Corrected
Collected: 02/13/07
Received: 02/15/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82456	1	ND		mg/kg	1.31	19-Feb-07	27-Feb-07 22:53	KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: GP-SB-11 (0-2)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001 & 12
Site: None
Lab ID: 20502338
Project No.: 2066873
Description: None
Matrix: Soil
%Moisture: 19.2 Corrected
Collected: 02/14/07
Received: 02/15/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82456	1	ND		mg/kg	1.19	19-Feb-07	27-Feb-07 22:59	KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
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New Orleans Laboratory

Report of Laboratory Analysis

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Phone: 504.469.0333
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LELAP # 02006

Client ID: GP-SB-11 (2-4)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001 & 12
Site: None
Lab ID: 20502343
Project No.: 2066873
Description: None
Matrix: Soil
%Moisture: 19.3 Corrected
Collected: 02/14/07
Received: 02/15/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82456	1	ND		mg/kg	0.984	19-Feb-07	27-Feb-07 23:04	KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: GP-SB-12 (0-2)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001 & 12
Site: None
Lab ID: 20502344
Project No.: 2066873
Description: None
Matrix: Soil
%Moisture: 26.6 Corrected
Collected: 02/14/07
Received: 02/15/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82456	1	1.49		mg/kg	1.26	19-Feb-07	27-Feb-07 23:09	KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Phone: 504.469.0333
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LELAP # 02006

Client ID: GP-SB-12 (2-4)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001 & 12
Site: None
Lab ID: 20502383
Project No.: 2066873
Description: None
Matrix: Soil
%Moisture: 27.7 Corrected
Collected: 02/14/07
Received: 02/15/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82456	1	ND		mg/kg	1.31	19-Feb-07	27-Feb-07 23:14	KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: GP-SB-13 (0-2)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001 & 12
Site: None
Lab ID: 20502384
Project No.: 2066873
Description: None
Matrix: Soil
%Moisture: 14.6 Corrected
Collected: 02/14/07
Received: 02/15/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82456	1	3.08		mg/kg	1.08	19-Feb-07	27-Feb-07 23:19	KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Kansas Dept. of Health .Environment - E-10266
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1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: GP-SB-13 (2-4)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001 & 12
Site: None
Lab ID: 20502385
Project No.: 2066873
Description: None
Matrix: Soil
%Moisture: 18.7 Corrected
Collected: 02/14/07
Received: 02/15/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82456	1	ND		mg/kg	1.21	19-Feb-07	27-Feb-07 23:24	KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health_Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: GP-SB-14 (0-2)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001 & 12
Site: None
Lab ID: 20502386
Project No.: 2066873
Description: None
Matrix: Soil
%Moisture: 17.7 Corrected
Collected: 02/14/07
Received: 02/15/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82456	1	ND		mg/kg	1.19	19-Feb-07	27-Feb-07 23:29	KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: GP-SB-14 (2-4)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001 & 12
Site: None
Lab ID: 20502387
Project No.: 2066873
Description: None
Matrix: Soil
%Moisture: 17.3 Corrected
Collected: 02/14/07
Received: 02/15/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82456	1	5.97		mg/kg	1.21	19-Feb-07	27-Feb-07 23:34	KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Phone: 504.469.0333
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LELAP # 02006

Client ID: GP-SB-15 (0-2)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001 & 12
Site: None
Lab ID: 20502388
Project No.: 2066873
Description: None
Matrix: Soil
%Moisture: 16.9 Corrected
Collected: 02/14/07
Received: 02/15/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82456	1	1.60		mg/kg	0.955	19-Feb-07	27-Feb-07 23:48	KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: GP-SB-15 (2-4)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001 & 12
Site: None
Lab ID: 20502389
Project No.: 2066873
Description: None
Matrix: Soil
%Moisture: 17.6 Corrected
Collected: 02/14/07
Received: 02/15/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82456	1	ND		mg/kg	1.14	19-Feb-07	27-Feb-07 23:53	KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: GP-SB-DUP-02
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001 & 12
Site: None
Lab ID: 20502390
Project No.: 2066873
Description: None
Matrix: Soil
%Moisture: 17.4 Corrected
Collected: 02/14/07
Received: 02/15/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82456	1	ND		mg/kg	1.12	19-Feb-07	27-Feb-07 23:58	KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Phone: 504.469.0333
Fax: 504.469.0555
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Client ID: GP-SB-16 (0-2)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001 & 12
Site: None
Lab ID: 20502391
Project No.: 2066873
Description: None
Matrix: Soil
%Moisture: 15.1 Corrected
Collected: 02/14/07
Received: 02/15/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82456	1	4.09		mg/kg	0.966	19-Feb-07	27-Feb-07 21:54	KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
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Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: GP-SB-16 (0-2)MS
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001 & 12
Site: None
Lab ID: 20502391MS
Project No.: 2066873
Description: None
Matrix: Soil
%Moisture: 15.1 Corrected
Collected: 02/14/07
Received: 02/15/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82456	1	110.		mg/kg	1.18	19-Feb-07	27-Feb-07 22:00	KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/21/2007 16:46:02

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health .Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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Phone: 504.469.0333
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LELAP # 02006

Client ID: GP-SB-16 (0-2)MSD
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001 & 12
Site: None
Lab ID: 20502391MSD
Project No.: 2066873
Description: None
Matrix: Soil
%Moisture: 15.1 Corrected
Collected: 02/14/07
Received: 02/15/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82456	1	114.		mg/kg	1.13	19-Feb-07	27-Feb-07 22:06	KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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LELAP # 02006

Client ID: GP-SB-16 (2-4)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001 & 12
Site: None
Lab ID: 20502392
Project No.: 2066873
Description: None
Matrix: Soil
%Moisture: 15.9 Corrected
Collected: 02/14/07
Received: 02/15/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82456	1	ND		mg/kg	1.08	19-Feb-07	28-Feb-07 00:05	KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
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Phone: 504.469.0333
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LELAP # 02006

Client ID: GP-SB-RB-01 **Client:** Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.0001 & 12 **Site:** None

Lab ID: 20502397 **Project No.:** 2066873

Description: None **Matrix:** Water **%Moisture:** n/a

Collected: 02/13/07 **Received:** 02/15/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82574	1	ND		ug/L	10.0	21-Feb-07	05-Mar-07	15:08 KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Phone: 504.469.0333
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LELAP # 02006

Client ID: GP-SB-RB-02
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001 & 12
Site: None
Lab ID: 20502398
Project No.: 2066873
Description: None
Matrix: Water
%Moisture: n/a
Collected: 02/14/07
Received: 02/15/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82574	1	ND		ug/L	10.0	21-Feb-07	05-Mar-07 15:13	KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
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For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
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Report of Quality Control

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Phone: 504.469.0333
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LELAP # 02006

Method: EPA 8260 **Project:** 2066873 **LCS:** 20502548 2/16/2007 7:40:00 PM

Batch: 82479 **MS:** 20502549 2/16/2007 9:39:00 PM

Units: ug/L **Original for MS:** 20502498 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Acetone	50	44.91		90			50	0.00	50.83	54.81	102	110	8	22 - 165	11 - 171	20	A11
Acetonitrile	550	826.1		150			550	0.00	790.1	860.7	144	157	9	15 - 171	10 - 182	20	
Acrolein	100	65.34		65			100	0.00	72.02	76.49	72	77	6	10 - 150	10 - 150	20	
Acrylonitrile	150	135		90			150	0.00	157.2	143.6	105	96	9	10 - 150	10 - 150	20	
Allyl chloride	100	81.87		82			100	0.00	80.19	84.62	80	85	5	30 - 155	34 - 153	20	
Benzene	50	40.91		82			50	0.00	40.97	41.59	82	83	2	70 - 135	60 - 144	20	
Bromodichloromethane	50	42.04		84			50	0.00	44.01	44.23	88	89	0	61 - 156	59 - 156	20	
Bromoform	50	54.29		109			50	0.00	57.2	56.23	114	113	2	56 - 154	50 - 153	20	
Bromomethane	50	23		46			50	0.00	21.44	21.41	43	43	0	44 - 158	37 - 165	20	
2-Butanone (MEK)	50	52.9		106			50	0.00	58.84	62.54	118	125	6	32 - 157	20 - 168	20	A11
Carbon disulfide	50	36.63		73			50	0.00	35.42	37.94	71	76	7	40 - 147	36 - 152	20	
Carbon tetrachloride	50	42.32		85			50	0.00	42.22	43.41	84	87	3	50 - 166	44 - 170	20	
Chlorobenzene	50	49.88		100			50	0.00	50.78	50.76	102	102	0	73 - 129	67 - 134	20	
Chloroethane	50	38.96		78			50	0.00	35.35	41.12	71	82	15	38 - 163	34 - 170	20	
Chloroform	50	48.42		97			50	0.00	49.31	50.81	99	102	3	71 - 133	64 - 140	20	
Chloromethane	50	41.46		83			50	0.00	38.99	41.83	78	84	7	32 - 149	22 - 163	20	
Chloroprene	50	48.38		97			50	0.00	47.54	50.94	95	102	7	50 - 141	51 - 134	20	
1,2-Dibromo-3-chloropropa	50	49.81		100			50	0.00	56.26	56.59	113	113	1	34 - 145	28 - 150	20	
Dibromochloromethane	50	48.91		98			50	0.00	50.01	50.99	100	102	2	63 - 147	58 - 147	20	
1,2-Dibromoethane (EDB)	50	53.52		107			50	0.00	58.17	59.49	116	119	2	60 - 147	55 - 149	20	
Dibromomethane	50	46.85		94			50	0.00	50.47	50.52	101	101	0	60 - 147	56 - 148	20	
1,2-Dichlorobenzene	50	54.17		108			50	0.00	54.22	56.95	108	114	5	67 - 135	61 - 139	20	
1,3-Dichlorobenzene	50	50.85		102			50	0.00	50.13	52.06	100	104	4	69 - 129	66 - 134	20	
1,4-Dichlorobenzene	50	52.49		105			50	0.00	51.88	53.89	104	108	4	66 - 133	64 - 133	20	
trans-1,4-Dichloro-2-butene	100	86.58		87			100	0.00	92.47	93.27	93	93	1	17 - 178	21 - 164	20	
1,1-Dichloroethane	50	45.08		90			50	0.00	44.42	46.47	89	93	5	64 - 135	59 - 142	20	
1,2-Dichloroethane	50	42.01		84			50	0.00	44.42	44.73	89	90	1	53 - 164	51 - 161	20	
1,1-Dichloroethene	50	43.3		87			50	0.00	43.4	46.29	87	93	6	51 - 143	44 - 152	20	
trans-1,2-Dichloroethene	50	45.94		92			50	0.00	45.56	47.67	91	95	5	59 - 139	56 - 145	20	
1,2-Dichloropropane	50	42.05		84			50	0.00	42.42	43.18	85	86	2	69 - 135	66 - 138	20	
cis-1,3-Dichloropropene	50	45.8		92			50	0.00	48.6	49.67	97	99	2	66 - 141	58 - 142	20	
trans-1,3-Dichloropropene	50	45.24		91			50	0.00	49.2	47.38	98	95	4	57 - 150	50 - 151	20	
1,4-Dioxane (p-Dioxane)	1050	1241		118			1050	0.00	1438	1437	137	137	0	17 - 176	19 - 172	20	
Ethylbenzene	50	45.92		92			50	0.00	45.41	45.96	91	92	1	67 - 132	58 - 138	20	
Ethyl methacrylate	100	99.5		100			100	0.00	109.9	112.6	110	113	2	57 - 143	45 - 170	20	
Hexachloro-1,3-butadiene	50	48.17		96			50	0.00	48.9	50.53	98	101	3	49 - 167	27 - 195	20	
2-Hexanone	50	57.09		114			50	0.00	63.08	63.91	126	128	1	36 - 154	25 - 163	20	
Iodomethane	50	51.49		103			50	0.00	50.67	53.52	101	107	5	43 - 159	36 - 160	20	
Isobutanol	1050	1221		116			1050	0.00	1360	1460	130	139	7	32 - 160	26 - 169	20	

3/21/2007 16:46:07

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Florida Dept. of Health (NELAC) - E87595
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Report of Quality Control

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Phone: 504.469.0333
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LELAP # 02006

Method: EPA 8260 **Project:** 2066873 **LCS:** 20502548 2/16/2007 7:40:00 PM

Batch: 82479 **MS:** 20502549 2/16/2007 9:39:00 PM

Units: ug/L **Original for MS:** 20502498 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Methacrylonitrile	550	568.2		103			550	0.00	619.1	647.6	113	118	4	10 - 171	10 - 167	20	
Methylene chloride	50	56.51		113			50	0.00	56.74	60.69	114	121	7	29 - 159	19 - 158	20	A11
Methyl methacrylate	100	98.54		99			100	0.00	108.6	111.4	109	111	3	52 - 167	11 - 212	20	
4-Methyl-2-pentanone (MI	50	54.38		109			50	0.00	56.91	59.64	114	119	5	13 - 162	10 - 157	20	
Naphthalene	50	49.82		100			50	0.00	54.58	56.11	109	112	3	39 - 140	23 - 148	20	
Propionitrile	550	570.9		104			550	0.00	653.1	677.3	119	123	4	23 - 159	25 - 158	20	
Styrene	50	52.88		106			50	0.00	54.36	53.94	109	108	1	71 - 134	54 - 144	20	
1,1,1,2-Tetrachloroethane	50	50.41		101			50	0.00	51.47	52.31	103	105	2	73 - 146	65 - 150	20	
1,1,2,2-Tetrachloroethane	50	47.24		95			50	0.00	49.85	52.37	100	105	5	50 - 142	46 - 145	20	
Tetrachloroethene	50	59.84		120			50	0.00	54.04	53.17	108	106	2	42 - 156	39 - 151	20	
Toluene	50	43.63		87			50	0.00	44.88	45.35	90	91	1	72 - 132	64 - 139	20	
1,2,4-Trichlorobenzene	50	48.64		97			50	0.00	51.14	52.11	102	104	2	56 - 144	46 - 149	20	
1,1,1-Trichloroethane	50	47.47		95			50	0.00	47.6	48.86	95	98	3	65 - 136	59 - 141	20	
1,1,2-Trichloroethane	50	48.29		97			50	0.00	53.13	52.01	106	104	2	67 - 144	60 - 146	20	
Trichloroethene	50	46.06		92			50	0.00	46.9	47.31	94	95	1	69 - 136	61 - 141	20	
Trichlorofluoromethane	50	57.97		116			50	0.00	53.96	58.87	108	118	9	42 - 161	38 - 160	20	
1,2,3-Trichloropropane	50	49.55		99			50	0.00	52	55.75	104	112	7	52 - 152	51 - 151	20	
1,2,4-Trimethylbenzene	50	49.13		98			50	0.00	48.22	49.72	96	99	3	59 - 137	41 - 155	20	
1,3,5-Trimethylbenzene	50	45.87		92			50	0.00	44.76	47.03	90	94	5	69 - 135	55 - 150	20	
Vinyl acetate	50	129		258 *			50	0.00	120	128.5	240 *	257 *	7	21 - 190	10 - 185	20	Q10
Vinyl chloride	50	38.04		76			50	0.00	32.31	34.99	65	70	8	40 - 146	28 - 161	20	
m&p-Xylene	100	94.42		94			100	0.00	94.63	94.69	95	95	0	70 - 129	66 - 132	20	
o-Xylene	50	47.63		95			50	0.00	48.31	48.32	97	97	0	70 - 129	66 - 132	20	

62 compound(s) reported

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LELAP # 02006

Method: EPA 8260 **Project:** 2066873 **LCS:** 20502955 2/21/2007 11:13:00 AM

Batch: 82479 **MS:**

Units: ug/L **Original for MS:**

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS		QC Limits MS/MSD	Max RPD	Qu
Acetone	50	42.36		85										22 - 165	-			A11
Acetonitrile	550	899.5		164										15 - 171	-			
Acrolein	100	72.55		73										10 - 150	-			
Acrylonitrile	150	144.7		97										10 - 150	-			
Allyl chloride	100	90.78		91										30 - 155	-			
Benzene	50	43.55		87										70 - 135	-			
Bromodichloromethane	50	42.87		86										61 - 156	-			
Bromoform	50	56.91		114										56 - 154	-			
Bromomethane	50	34.75		70										44 - 158	-			
2-Butanone (MEK)	50	50.4		101										32 - 157	-			A11
Carbon disulfide	50	40.41		81										40 - 147	-			
Carbon tetrachloride	50	47.56		95										50 - 166	-			
Chlorobenzene	50	52.77		106										73 - 129	-			
Chloroethane	50	52.99		106										38 - 163	-			
Chloroform	50	50.16		100										71 - 133	-			
Chloromethane	50	58.76		118										32 - 149	-			
Chloroprene	50	54.14		108										50 - 141	-			
1,2-Dibromo-3-chloropropa	50	48.82		98										34 - 145	-			
Dibromochloromethane	50	51.09		102										63 - 147	-			
1,2-Dibromoethane (EDB)	50	56.38		113										60 - 147	-			
Dibromomethane	50	47.05		94										60 - 147	-			
1,2-Dichlorobenzene	50	54.91		110										67 - 135	-			
1,3-Dichlorobenzene	50	53.06		106										69 - 129	-			
1,4-Dichlorobenzene	50	54.41		109										66 - 133	-			
trans-1,4-Dichloro-2-butene	100	95.87		96										17 - 178	-			
1,1-Dichloroethane	50	47.91		96										64 - 135	-			
1,2-Dichloroethane	50	44.36		89										53 - 164	-			
1,1-Dichloroethene	50	51.62		103										51 - 143	-			
trans-1,2-Dichloroethene	50	50.74		101										59 - 139	-			
1,2-Dichloropropane	50	42.71		85										69 - 135	-			
cis-1,3-Dichloropropene	50	48.41		97										66 - 141	-			
trans-1,3-Dichloropropene	50	47.89		96										57 - 150	-			
1,4-Dioxane (p-Dioxane)	1050	1241		118										17 - 176	-			
Ethylbenzene	50	48.93		98										67 - 132	-			
Ethyl methacrylate	100	105.3		105										57 - 143	-			
Hexachloro-1,3-butadiene	50	50.27		101										49 - 167	-			
2-Hexanone	50	60.5		121										36 - 154	-			
Iodomethane	50	56.74		113										43 - 159	-			
Isobutanol	1050	1142		109										32 - 160	-			

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Report of Quality Control

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Method: EPA 8260 **Project:** 2066873 **LCS:** 20502955 2/21/2007 11:13:00 AM

Batch: 82479 **MS:**

Units: ug/L **Original for MS:**

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Methacrylonitrile	550	553.9		101										10 - 171	-		
Methylene chloride	50	59.7		119										29 - 159	-		A11
Methyl methacrylate	100	101.8		102										52 - 167	-		
4-Methyl-2-pentanone (MI	50	55.46		111										13 - 162	-		
Naphthalene	50	54.27		109										39 - 140	-		
Propionitrile	550	575.1		105										23 - 159	-		
Styrene	50	55.79		112										71 - 134	-		
1,1,1,2-Tetrachloroethane	50	53.73		107										73 - 146	-		
1,1,2,2-Tetrachloroethane	50	46.95		94										50 - 142	-		
Tetrachloroethene	50	62.93		126										42 - 156	-		
Toluene	50	46.25		93										72 - 132	-		
1,2,4-Trichlorobenzene	50	52.94		106										56 - 144	-		
1,1,1-Trichloroethane	50	50.12		100										65 - 136	-		
1,1,2-Trichloroethane	50	47.78		96										67 - 144	-		
Trichloroethene	50	51.45		103										69 - 136	-		
Trichlorofluoromethane	50	78.69		157										42 - 161	-		
1,2,3-Trichloropropane	50	52.49		105										52 - 152	-		
1,2,4-Trimethylbenzene	50	49.44		99										59 - 137	-		
1,3,5-Trimethylbenzene	50	47.17		94										69 - 135	-		
Vinyl acetate	50	127.9		256 *										21 - 190	-		Q10
Vinyl chloride	50	54.49		109										40 - 146	-		
m&p-Xylene	100	100		100										70 - 129	-		
o-Xylene	50	49.6		99										70 - 129	-		

62 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

3/21/2007 16:46:07

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
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Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
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LELAP # 02006

Method: EPA 8260 **Project:** 2066873 **LCS:** 20502881 2/19/2007 12:40:00 PM

Batch: 82550 **MS:** 20502882 2/19/2007 4:53:00 PM

Units: ug/kg **Original for MS:** 20502330 Project Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Acetone	50	41.57		83			47.21	0.00	35.12	33.37	74	72	5	11 - 166	10 - 183	20	A11
Acetonitrile	550	833.8		152			519.3	0.00	618.6	590.5	119	115	5	22 - 198	50 - 150	20	
Acrolein	100	60.89		61			94.43	0.00	0	67.71	0 *	73	200 *	10 - 150	10 - 147	20	Q1
Acrylonitrile	150	125.6		84			141.6	0.00	110.7	90.49	78	65	20	10 - 150	10 - 150	20	
Allyl chloride	100	80.83		81			94.43	0.00	61.95	60.05	66	65	3	32 - 170	10 - 163	20	
Benzene	50	41.12		82			47.21	2.93	33.28	31.03	64	60	7	65 - 136	33 - 143	20	
Bromodichloromethane	50	40		80			47.21	0.00	30.94	28.52	66	61	8	56 - 157	14 - 155	20	
Bromoform	50	53.11		106			47.21	0.00	42.18	37.76	89	81	11	46 - 156	10 - 152	20	
Bromomethane	50	34.79		70			47.21	0.00	19.98	17.66	42	38	12	41 - 159	14 - 162	20	
2-Butanone (MEK)	50	47.26		95			47.21	0.00	53.47	42.89	113	92	22 *	17 - 164	10 - 166	20	A11
Carbon disulfide	50	36.85		74			47.21	0.00	27.49	26.84	58	58	2	38 - 150	14 - 148	20	
Carbon tetrachloride	50	45.03		90			47.21	0.00	31.84	30.22	67	65	5	44 - 166	17 - 160	20	
Chlorobenzene	50	49.48		99			47.21	0.00	34.47	31.73	73	68	8	65 - 134	14 - 145	20	
Chloroethane	50	50.07		100			47.21	0.00	35.58	34.74	75	75	2	34 - 166	28 - 158	20	
Chloroform	50	45.46		91			47.21	0.00	35.61	33.72	75	73	5	68 - 134	35 - 141	20	
Chloromethane	50	57.29		115			47.21	0.00	45.31	42.05	96	90	7	21 - 152	10 - 158	20	
Chloroprene	50	49.59		99			47.21	0.00	37.01	35.19	78	76	5	47 - 143	10 - 148	20	
1,2-Dibromo-3-chloropropa	50	48.66		97			47.21	0.00	39.3	35.65	83	77	10	23 - 147	10 - 147	20	
Dibromochloromethane	50	48.64		97			47.21	0.00	36.51	32.86	77	71	11	53 - 150	10 - 153	20	
1,2-Dibromoethane (EDB)	50	51.87		104			47.21	0.00	42.49	37.6	90	81	12	47 - 152	10 - 139	20	
Dibromomethane	50	43.88		88			47.21	0.00	35.99	32.08	76	69	12	55 - 153	34 - 145	20	
1,2-Dichlorobenzene	50	52.64		105			47.21	0.00	33.67	29.73	71	64	12	67 - 133	10 - 134	20	
1,3-Dichlorobenzene	50	50.52		101			47.21	0.00	31.57	28.03	67	60	12	64 - 132	10 - 131	20	
1,4-Dichlorobenzene	50	51.88		104			47.21	0.00	32.27	28.25	68	61	13	64 - 131	10 - 130	20	
trans-1,4-Dichloro-2-butene	100	93.51		94			94.43	0.00	69.31	58.9	73	63	16	11 - 161	10 - 157	20	
1,1-Dichloroethane	50	43.95		88			47.21	0.00	33.71	32.02	71	69	5	61 - 135	36 - 141	20	
1,2-Dichloroethane	50	41.28		83			47.21	0.00	32.94	30.23	70	65	9	46 - 162	15 - 158	20	
1,1-Dichloroethene	50	46.14		92			47.21	0.00	34.5	34.02	73	73	1	50 - 144	31 - 149	20	
trans-1,2-Dichloroethene	50	45.29		91			47.21	0.00	34.51	33.16	73	71	4	56 - 138	29 - 142	20	
1,2-Dichloropropane	50	40.57		81			47.21	0.00	30.97	29.06	66	63	6	64 - 136	28 - 141	20	
cis-1,3-Dichloropropene	50	44.5		89			47.21	0.00	33.96	30.96	72	67	9	58 - 142	10 - 145	20	
trans-1,3-Dichloropropene	50	43.9		88			47.21	0.00	34.38	30.93	73	67	11	47 - 152	10 - 149	20	
1,4-Dioxane (p-Dioxane)	1050	1134		108			991.5	0.00	2024	1360	204 *	139	39 *	24 - 168	10 - 193	20	Q1
Ethylbenzene	50	46.6		93			47.21	3.14	34.95	32.67	67	64	7	62 - 134	11 - 144	20	
Ethyl methacrylate	100	98.45		99			94.43	0.00	86.92	77.69	92	84	11	70 - 130	70 - 130	20	
Hexachloro-1,3-butadiene	50	48.02		96			47.21	0.00	24.52	22.66	52 *	49 *	8	65 - 158	70 - 130	20	Q1
2-Hexanone	50	58.5		117			47.21	0.00	50.14	44.01	106	95	13	22 - 162	10 - 165	20	
Iodomethane	50	50.14		100			47.21	0.00	38.95	37.41	83	80	4	10 - 233	10 - 229	20	
Isobutanol	1050	1059		101			991.5	0.00	1178	882.7	119	90	29 *	14 - 161	10 - 167	20	

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Method: EPA 8260 **Project:** 2066873 **LCS:** 20502881 2/19/2007 12:40:00 PM

Batch: 82550 **MS:** 20502882 2/19/2007 4:53:00 PM

Units: ug/kg **Original for MS:** 20502330 Project Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Methacrylonitrile	550	521.4		95			519.3	0.00	492.5	430.9	95	84	13	10 - 174	50 - 150	20	
Methylene chloride	50	53.15		106			47.21	0.00	42.73	41.02	91	88	4	23 - 161	10 - 146	20	A11
Methyl methacrylate	100	96.22		96			94.43	0.00	84.54	74.59	90	80	13	70 - 130	70 - 130	20	
4-Methyl-2-pentanone (MI	50	54.13		108			47.21	0.00	51.46	45.08	109	97	13	10 - 167	10 - 150	20	
Naphthalene	50	53.29		107			47.21	0.00	39.06	33.1	83	71	17	48 - 133	10 - 191	20	
Propionitrile	550	529.1		96			519.3	0.00	466.2	393.5	90	77	17	10 - 174	10 - 137	20	
Styrene	50	53.12		106			47.21	0.00	37.03	33.67	78	72	10	64 - 138	10 - 145	20	
1,1,1,2-Tetrachloroethane	50	50.75		102			47.21	0.00	36.42	33.52	77	72	8	56 - 154	10 - 162	20	
1,1,2,2-Tetrachloroethane	50	46.22		92			47.21	0.00	35.94	30.78	76	66	15	41 - 144	10 - 162	20	
Tetrachloroethene	50	57.36		115			47.21	0.00	37.38	35.48	79	76	5	30 - 161	10 - 179	20	
Toluene	50	43.23		87			47.21	7.78	38.58	35.94	65	61	7	65 - 135	21 - 147	20	
1,2,4-Trichlorobenzene	50	51.49		103			47.21	0.00	28.56	24.59	61	53	15	44 - 147	10 - 129	20	
1,1,1-Trichloroethane	50	45.42		91			47.21	0.00	34.71	32.85	74	71	6	57 - 139	32 - 144	20	
1,1,2-Trichloroethane	50	44.31		89			47.21	0.00	36.27	32.54	77	70	11	59 - 145	13 - 150	20	
Trichloroethene	50	47.33		95			47.21	0.00	33.59	31.37	71	67	7	64 - 139	24 - 152	20	
Trichlorofluoromethane	50	68.52		137			47.21	0.00	46.02	48.27	98	104	5	39 - 157	20 - 153	20	
1,2,3-Trichloropropane	50	50.71		101			47.21	0.00	40.15	32.19	85	69	22 *	42 - 150	21 - 138	20	
1,2,4-Trimethylbenzene	50	48.24		97			47.21	0.00	35.46	31.44	75	68	12	62 - 145	43 - 124	20	
1,3,5-Trimethylbenzene	50	45.88		92			47.21	0.00	30.8	27.87	65 *	60 *	10	58 - 151	70 - 130	20	Q1
Vinyl acetate	50	121.1		242 *			47.21	0.00	104.6	84.2	222 *	181 *	22 *	10 - 210	50 - 150	20	Q10
Vinyl chloride	50	50.23		100			47.21	0.00	39.2	37.96	83	82	3	33 - 145	15 - 153	20	
m&p-Xylene	100	94.99		95			94.43	4.90	70.12	65.67	69	65	7	60 - 138	10 - 147	20	
o-Xylene	50	47.33		95			47.21	2.34	36.16	33.14	72	66	9	62 - 139	10 - 149	20	

62 compound(s) reported

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LELAP # 02006

Method: EPA 8260 **Project:** 2066873 **LCS:** 20502885 2/23/2007 5:23:00 PM

Batch: 82551 **MS:** 20502886 2/23/2007 8:54:00 PM

Units: ug/kg **Original for MS:** 20502391 Project Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Acetone	50	36.75		74			46.02	0.00	61.78	35.64	134	73	54 *	11 - 166	10 - 183	20	A11
Acetonitrile	550	854.1		155			506.2	0.00	596.6	670.4	118	125	12	22 - 198	50 - 150	20	
Acrolein	100	49.36		49			92.04	0.00	63.38	55.25	69	57	14	10 - 150	10 - 147	20	
Acrylonitrile	150	115.5		77			138.1	0.00	97.93	95.65	71	65	2	10 - 150	10 - 150	20	
Allyl chloride	100	85.71		86			92.04	0.00	60.9	68.53	66	70	12	32 - 170	10 - 163	20	
Benzene	50	41.76		84			46.02	2.32	29	32.5	58	62	11	65 - 136	33 - 143	20	
Bromodichloromethane	50	40.55		81			46.02	0.00	26.12	32.2	57	66	21 *	56 - 157	14 - 155	20	
Bromoform	50	55.1		110			46.02	0.00	31.82	44.14	69	90	32 *	46 - 156	10 - 152	20	
Bromomethane	50	31.12		62			46.02	0.00	15.39	22.16	33	45	36 *	41 - 159	14 - 162	20	
2-Butanone (MEK)	50	40.28		81			46.02	0.00	62.68	43.44	136	89	36 *	17 - 164	10 - 166	20	A11
Carbon disulfide	50	37.95		76			46.02	0.00	27.76	30.6	60	63	10	38 - 150	14 - 148	20	
Carbon tetrachloride	50	45.28		91			46.02	0.00	30.72	34.81	67	71	12	44 - 166	17 - 160	20	
Chlorobenzene	50	52.68		105			46.02	0.00	29.22	36.15	64	74	21 *	65 - 134	14 - 145	20	
Chloroethane	50	51.99		104			46.02	0.00	30.06	38.85	65	79	26 *	34 - 166	28 - 158	20	
Chloroform	50	47.42		95			46.02	0.00	32.52	38.74	71	79	17	68 - 134	35 - 141	20	
Chloromethane	50	56.22		112			46.02	0.00	39.09	45.41	85	93	15	21 - 152	10 - 158	20	
Chloroprene	50	49.8		100			46.02	0.00	35.59	39.18	77	80	10	47 - 143	10 - 148	20	
1,2-Dibromo-3-chloropropa	50	43.72		87			46.02	0.00	25.16	33.28	55	68	28 *	23 - 147	10 - 147	20	
Dibromochloromethane	50	50.04		100			46.02	0.00	29.66	38.48	64	79	26 *	53 - 150	10 - 153	20	
1,2-Dibromoethane (EDB)	50	49.31		99			46.02	0.00	34.65	44.55	75	91	25 *	47 - 152	10 - 139	20	
Dibromomethane	50	42.33		85			46.02	0.00	28.89	36.53	63	75	23 *	55 - 153	34 - 145	20	
1,2-Dichlorobenzene	50	57.06		114			46.02	0.00	20.24	34.7	44	71	53 *	67 - 133	10 - 134	20	
1,3-Dichlorobenzene	50	55		110			46.02	0.00	20.34	31.92	44	65	44 *	64 - 132	10 - 131	20	
1,4-Dichlorobenzene	50	55.97		112			46.02	0.00	20.4	31.77	44	65	44 *	64 - 131	10 - 130	20	
trans-1,4-Dichloro-2-butene	100	89.24		89			92.04	0.00	50.3	61.98	55	63	21 *	11 - 161	10 - 157	20	
1,1-Dichloroethane	50	44.93		90			46.02	0.00	31.42	36.53	68	75	15	61 - 135	36 - 141	20	
1,2-Dichloroethane	50	41.7		83			46.02	0.00	28.05	33.91	61	69	19	46 - 162	15 - 158	20	
1,1-Dichloroethene	50	48.99		98			46.02	0.00	35.34	39.11	77	80	10	50 - 144	31 - 149	20	
trans-1,2-Dichloroethene	50	49.02		98			46.02	0.00	34.43	38.41	75	79	11	56 - 138	29 - 142	20	
1,2-Dichloropropane	50	41.2		82			46.02	0.00	27.13	32.03	59	66	17	64 - 136	28 - 141	20	
cis-1,3-Dichloropropene	50	43.86		88			46.02	0.00	27.32	34.51	59	71	23 *	58 - 142	10 - 145	20	
trans-1,3-Dichloropropene	50	41.76		84			46.02	0.00	26.83	33.82	58	69	23 *	47 - 152	10 - 149	20	
1,4-Dioxane (p-Dioxane)	1050	1060		101			966.4	0.00	3648	2295	377 *	223 *	46 *	24 - 168	10 - 193	20	Q1
Ethylbenzene	50	48.18		96			46.02	2.21	28.41	34.53	57	66	19	62 - 134	11 - 144	20	
Ethyl methacrylate	100	92.53		93			92.04	0.00	66.89	81.28	73	83	19	70 - 130	70 - 130	20	
Hexachloro-1,3-butadiene	50	51.35		103			46.02	0.00	8.44	27.13	18 *	56 *	105 *	65 - 158	70 - 130	20	Q1
2-Hexanone	50	51.89		104			46.02	0.00	50.65	41.49	110	85	20	22 - 162	10 - 165	20	
Iodomethane	50	55.78		112			46.02	0.00	39.02	44.29	85	91	13	10 - 233	10 - 229	20	
Isobutanol	1050	940		90			966.4	0.00	2616	1230	271 *	120	72 *	14 - 161	10 - 167	20	Q1

3/21/2007 16:46:08

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Method: EPA 8260 **Project:** 2066873 **LCS:** 20502885 2/23/2007 5:23:00 PM

Batch: 82551 **MS:** 20502886 2/23/2007 8:54:00 PM

Units: ug/kg **Original for MS:** 20502391 Project Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Methacrylonitrile	550	478.5		87			506.2	0.00	382.3	449.5	76	84	16	10 - 174	50 - 150	20	
Methylene chloride	50	58.51		117			46.02	0.00	39.66	46.79	86	96	16	23 - 161	10 - 146	20	A11
Methyl methacrylate	100	87.11		87			92.04	0.00	62.05	77.86	67 *	80	23 *	70 - 130	70 - 130	20	Q1
4-Methyl-2-pentanone (MI	50	50.43		101			46.02	0.00	38.78	44.73	84	91	14	10 - 167	10 - 150	20	
Naphthalene	50	50.81		102			46.02	0.00	21.27	35.75	46	73	51 *	48 - 133	10 - 191	20	
Propionitrile	550	485.2		88			506.2	0.00	567.3	451	112	84	23 *	10 - 174	10 - 137	20	
Styrene	50	55.67		111			46.02	0.00	27.37	31.8	60	65	15	64 - 138	10 - 145	20	
1,1,1,2-Tetrachloroethane	50	53.35		107			46.02	0.00	30.8	39.51	67	81	25 *	56 - 154	10 - 162	20	
1,1,2,2-Tetrachloroethane	50	48.1		96			46.02	0.00	25.08	33.94	55	69	30 *	41 - 144	10 - 162	20	
Tetrachloroethene	50	62.27		125			46.02	0.00	34.98	41.79	76	85	18	30 - 161	10 - 179	20	
Toluene	50	43.17		86			46.02	5.88	31.85	35.87	56	61	12	65 - 135	21 - 147	20	
1,2,4-Trichlorobenzene	50	50.73		101			46.02	0.00	16.45	27.7	36	57	51 *	44 - 147	10 - 129	20	
1,1,1-Trichloroethane	50	47.11		94			46.02	0.00	33.45	38.12	73	78	13	57 - 139	32 - 144	20	
1,1,2-Trichloroethane	50	44.86		90			46.02	0.00	29.45	38.65	64	79	27 *	59 - 145	13 - 150	20	
Trichloroethene	50	48.53		97			46.02	0.00	31.27	36.48	68	75	15	64 - 139	24 - 152	20	
Trichlorofluoromethane	50	77.11		154			46.02	0.00	46.26	56.5	101	116	20	39 - 157	20 - 153	20	
1,2,3-Trichloropropane	50	51.89		104			46.02	0.00	30.41	36.75	66	75	19	42 - 150	21 - 138	20	
1,2,4-Trimethylbenzene	50	52.94		106			46.02	2.26	22.12	32.7	43	62	39 *	62 - 145	43 - 124	20	
1,3,5-Trimethylbenzene	50	50.61		101			46.02	0.00	21.14	30.61	46 *	63 *	37 *	58 - 151	70 - 130	20	Q1
Vinyl acetate	50	107.6		215 *			46.02	0.00	65.83	90.73	143	185 *	32 *	10 - 210	50 - 150	20	Q10
Vinyl chloride	50	49.59		99			46.02	0.00	36.47	40.48	79	83	10	33 - 145	15 - 153	20	
m&p-Xylene	100	99.9		100			92.04	3.51	56.38	70.37	57	68	22 *	60 - 138	10 - 147	20	
o-Xylene	50	50.41		101			46.02	1.66	28.25	35.93	58	70	24 *	62 - 139	10 - 149	20	

62 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Method: EPA 8260 **Project:** 2066873 **LCS:** 20502889 2/19/2007 8:45:00 PM

Batch: 82552 **MS:** 20503065 2/22/2007 11:56:00 AM

Units: ug/kg **Original for MS:** 20502035 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Acetone	2500	2344		94			2500	823.50	2694	2486	75	67	8	10 - 197	10 - 206	20	A11,P
Benzene	2500	2160		86			2500	0.00	2348	2303	94	92	2	64 - 137	34 - 153	20	P5
Bromodichloromethane	2500	2084		83			2500	0.00	2274	2186	91	88	4	51 - 155	30 - 166	20	P5
Bromoform	2500	2286		92			2500	0.00	2902	2673	116	107	8	47 - 146	23 - 163	20	P5
Bromomethane	2500	1026		41			2500	0.00	944	885.5	38	35	6	10 - 183	10 - 193	20	P5
2-Butanone (MEK)	2500	2592		104			2500	0.00	3714	3047	149	122	20	10 - 183	10 - 219	20	A11,P
Carbon disulfide	2500	1532		61			2500	0.00	1747	1796	70	72	3	22 - 167	10 - 180	20	P5
Carbon tetrachloride	2500	2150		86			2500	0.00	2446	2374	98	95	3	43 - 162	28 - 168	20	P5
Chlorobenzene	2500	2618		105			2500	0.00	2768	2712	111	109	2	66 - 129	39 - 145	20	P5
Chloroethane	2500	1370		55			2500	0.00	1874	1690	75	68	10	10 - 200	10 - 217	20	P5
Chloroform	2500	2532		101			2500	0.00	2774	2680	111	107	3	65 - 134	36 - 162	20	P5
Chloromethane	2500	1100		44			2500	0.00	1318	1233	53	49	7	10 - 165	10 - 181	20	P5
Dibromochloromethane	2500	2370		95			2500	0.00	2746	2580	110	103	6	54 - 144	31 - 159	20	P5
1,1-Dichloroethane	2500	2326		93			2500	0.00	2582	2512	103	101	3	62 - 138	38 - 161	20	P5
1,2-Dichloroethane	2500	2194		88			2500	0.00	2566	2428	103	97	6	49 - 158	31 - 172	20	P5
1,1-Dichloroethene	2500	2194		88			2500	0.00	2446	2467	98	99	1	31 - 170	10 - 188	20	P5
trans-1,2-Dichloroethene	2500	2434		97			2500	0.00	2756	2694	110	108	2	51 - 151	29 - 165	20	P5
1,2-Dichloropropane	2500	2140		86			2500	0.00	2378	2284	95	91	4	60 - 138	37 - 157	20	P5
cis-1,3-Dichloropropene	2500	2258		90			2500	0.00	1987	1954	80	78	2	57 - 142	33 - 157	20	P5
trans-1,3-Dichloropropene	2500	2156		86			2500	0.00	2224	2124	89	85	5	47 - 150	29 - 158	20	P5
Ethylbenzene	2500	2392		96			2500	0.00	2528	2516	101	101	0	57 - 133	21 - 156	20	P5
2-Hexanone	2500	2416		97			2500	0.00	3550	3097	142	124	14	15 - 155	10 - 189	20	P5
Methylene chloride	2500	2428		97			2500	0.00	2823	2744	113	110	3	22 - 170	10 - 181	20	A11,P
4-Methyl-2-pentanone (MI	2500	2426		97			2500	0.00	3212	2978	129	119	8	10 - 156	10 - 175	20	P5
Styrene	2500	1986		79			2500	0.00	2080	2048	83	82	2	59 - 137	21 - 159	20	P5
1,1,2,2-Tetrachloroethane	2500	2176		87			2500	0.00	2633	2478	105	99	6	52 - 142	17 - 168	20	P5
Tetrachloroethene	2500	2678		107			2500	0.00	2851	2830	114	113	1	37 - 139	10 - 172	20	P5
Toluene	2500	2248		90			2500	0.00	2370	2352	95	94	1	65 - 133	33 - 152	20	P5
1,1,1-Trichloroethane	2500	2458		98			2500	0.00	2649	2572	106	103	3	61 - 135	33 - 158	20	P5
1,1,2-Trichloroethane	2500	2368		95			2500	0.00	2718	2511	109	100	8	61 - 140	31 - 164	20	P5
Trichloroethene	2500	2441		98			2500	0.00	2662	2585	107	103	3	62 - 136	25 - 168	20	P5
Vinyl chloride	2500	1302		52			2500	0.00	1508	1416	60	57	6	10 - 174	10 - 183	20	P5
m&p-Xylene	5000	4808		96			5000	52.50	5130	5085	102	101	1	59 - 136	18 - 164	20	P5
o-Xylene	2500	2480		99			2500	43.50	2667	2625	105	103	2	62 - 137	18 - 164	20	P5

34 compound(s) reported

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* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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LELAP # 02006

Method: EPA 8260 **Project:** 2066873 **LCS:** 20503144 2/23/2007 2:08:00 PM

Batch: 82609 **MS:** 20503145 2/23/2007 5:07:00 PM

Units: ug/kg **Original for MS:** 20502698 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Acetone	50	82.18		164			46.93	11.92	54.06	48.21	90	75	11	11 - 166	10 - 183	20	A11
Acetonitrile	550	668.1		121			516.2	0.00	274.1	408.4	53	77	39 *	22 - 198	50 - 150	20	
Acrolein	100	93.46		94			93.86	0.00	36.06	65.34	38	68	58 *	10 - 150	10 - 147	20	
Acrylonitrile	150	151.7		101			140.8	0.00	52.2	58.87	37	41	12	10 - 150	10 - 150	20	
Allyl chloride	100	75.36		75			93.86	0.00	40.76	42.56	43	44	4	32 - 170	10 - 163	20	
Benzene	50	39.81		80			46.93	1.71	20.05	20.74	39	39	3	65 - 136	33 - 143	20	
Bromodichloromethane	50	49.24		99			46.93	0.00	20.21	20.26	43	42	0	56 - 157	14 - 155	20	
Bromoform	50	59.57		119			46.93	0.00	19.48	18.75	42	39	4	46 - 156	10 - 152	20	
Bromomethane	50	45.48		91			46.93	0.00	26.47	26.49	56	55	0	41 - 159	14 - 162	20	
2-Butanone (MEK)	50	61.83		124			46.93	0.00	21.71	27.53	46	57	24 *	17 - 164	10 - 166	20	A11
Carbon disulfide	50	30.74		62			46.93	1.21	20.54	21.72	41	42	6	38 - 150	14 - 148	20	
Carbon tetrachloride	50	45.58		91			46.93	0.00	27.88	27.59	59	57	1	44 - 166	17 - 160	20	
Chlorobenzene	50	48.29		97			46.93	0.00	21.83	20	47	41	9	65 - 134	14 - 145	20	
Chloroethane	50	42.03		84			46.93	0.00	26.53	26.95	57	56	2	34 - 166	28 - 158	20	
Chloroform	50	48.25		97			46.93	0.00	23.73	23.87	51	49	1	68 - 134	35 - 141	20	
Chloromethane	50	39.92		80			46.93	0.00	24.48	25.87	52	54	6	21 - 152	10 - 158	20	
Chloroprene	50	40.24		81			46.93	0.00	22.77	25.15	49	52	10	47 - 143	10 - 148	20	
1,2-Dibromo-3-chloropropa	50	70.23		140			46.93	0.00	20.1	21.62	43	45	7	23 - 147	10 - 147	20	
Dibromochloromethane	50	60.89		122			46.93	0.00	21.72	21.44	46	44	1	53 - 150	10 - 153	20	
1,2-Dibromoethane (EDB)	50	67.08		134			46.93	0.00	23.39	24.16	50	50	3	47 - 152	10 - 139	20	
Dibromomethane	50	57.68		115			46.93	0.00	21.19	20.41	45	42	4	55 - 153	34 - 145	20	
1,2-Dichlorobenzene	50	52.77		106			46.93	0.00	19.79	17.06	42	35	15	67 - 133	10 - 134	20	
1,3-Dichlorobenzene	50	46.19		92			46.93	0.00	19.21	16.64	41	34	14	64 - 132	10 - 131	20	
1,4-Dichlorobenzene	50	47.45		95			46.93	0.00	19.77	16.93	42	35	15	64 - 131	10 - 130	20	
trans-1,4-Dichloro-2-butene	100	134.8		135			93.86	0.00	43.71	47.13	47	49	8	11 - 161	10 - 157	20	
1,1-Dichloroethane	50	41		82			46.93	0.00	21.37	20.87	46	43	2	61 - 135	36 - 141	20	
1,2-Dichloroethane	50	60.11		120			46.93	0.00	23.87	24.19	51	50	1	46 - 162	15 - 158	20	
1,1-Dichloroethene	50	38.06		76			46.93	0.00	25.91	26.93	55	56	4	50 - 144	31 - 149	20	
trans-1,2-Dichloroethene	50	40.91		82			46.93	0.00	23.69	24.46	51	51	3	56 - 138	29 - 142	20	
1,2-Dichloropropane	50	42.98		86			46.93	0.00	18.73	18.87	40	39	1	64 - 136	28 - 141	20	
cis-1,3-Dichloropropene	50	50.52		101			46.93	0.00	20.22	20.63	43	43	2	58 - 142	10 - 145	20	
trans-1,3-Dichloropropene	50	55.96		112			46.93	0.00	20.27	20.97	43	43	3	47 - 152	10 - 149	20	
1,4-Dioxane (p-Dioxane)	1050	1707		163			985.5	0.00	2023	3468	205 *	342 *	53 *	24 - 168	10 - 193	20	Q1
Ethylbenzene	50	43.1		86			46.93	1.52	22.03	21	44	40	5	62 - 134	11 - 144	20	
Ethyl methacrylate	100	129.4		129			93.86	0.00	38.72	42.63	41 *	44 *	10	70 - 130	70 - 130	20	Q1
Hexachloro-1,3-butadiene	50	31.49		63 *			46.93	0.00	11.23	8.082	24 *	17 *	33 *	65 - 158	70 - 130	20	
2-Hexanone	50	73.87		148			46.93	0.00	17.92	21.88	38	45	20	22 - 162	10 - 165	20	
Iodomethane	50	45.05		90			46.93	0.00	24.77	24.61	53	51	1	10 - 233	10 - 229	20	
Isobutanol	1050	1266		121			985.5	0.00	671.5	1089	68	107	47 *	14 - 161	10 - 167	20	

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LELAP # 02006

Method: EPA 8260 **Project:** 2066873 **LCS:** 20503144 2/23/2007 2:08:00 PM

Batch: 82609 **MS:** 20503145 2/23/2007 5:07:00 PM

Units: ug/kg **Original for MS:** 20502698 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Methacrylonitrile	550	666.4		121			516.2	0.00	215.3	233.8	42 *	44 *	8	10 - 174	50 - 150	20	Q1
Methylene chloride	50	58.25		117			46.93	0.00	26.37	26.81	56	56	2	23 - 161	10 - 146	20	A11
Methyl methacrylate	100	142.9		143 *			93.86	0.00	43.48	48.77	46 *	51 *	11	70 - 130	70 - 130	20	Q10
4-Methyl-2-pentanone (MI	50	69.54		139			46.93	0.00	22.28	20.37	48	42	9	10 - 167	10 - 150	20	
Naphthalene	50	59.87		120			46.93	0.00	18.41	18.46	39	38	0	48 - 133	10 - 191	20	
Propionitrile	550	698.3		127			516.2	0.00	246.6	321.3	48	60	26 *	10 - 174	10 - 137	20	
Styrene	50	51.73		103			46.93	0.00	14.73	19.32	31	40	27 *	64 - 138	10 - 145	20	
1,1,1,2-Tetrachloroethane	50	56.49		113			46.93	0.00	22.69	22.44	48	46	1	56 - 154	10 - 162	20	
1,1,2,2-Tetrachloroethane	50	69.7		139			46.93	0.00	19.16	20.21	41	42	5	41 - 144	10 - 162	20	
Tetrachloroethene	50	39.62		79			46.93	0.00	22.21	20.93	47	43	6	30 - 161	10 - 179	20	
Toluene	50	43.16		86			46.93	4.62	23.36	25.03	40	42	7	65 - 135	21 - 147	20	
1,2,4-Trichlorobenzene	50	33.45		67			46.93	0.00	14.34	13.01	31	27	10	44 - 147	10 - 129	20	
1,1,1-Trichloroethane	50	40.01		80			46.93	0.00	24.13	24.34	51	50	1	57 - 139	32 - 144	20	
1,1,2-Trichloroethane	50	57.53		115			46.93	0.00	21.14	21.64	45	45	2	59 - 145	13 - 150	20	
Trichloroethene	50	46.58		93			46.93	0.00	25.28	24.33	54	50	4	64 - 139	24 - 152	20	
Trichlorofluoromethane	50	44.23		89			46.93	0.00	33.68	34.22	72	71	2	39 - 157	20 - 153	20	
1,2,3-Trichloropropane	50	82.92		166 *			46.93	0.00	23.83	25.97	51	54	9	42 - 150	21 - 138	20	Q10
1,2,4-Trimethylbenzene	50	47.95		96			46.93	1.31	21.93	20.87	44	41 *	5	62 - 145	43 - 124	20	
1,3,5-Trimethylbenzene	50	46.24		93			46.93	0.00	22.77	20.8	49 *	43 *	9	58 - 151	70 - 130	20	Q1
Vinyl acetate	50	131.8		264 *			46.93	0.00	42.84	43.53	91	90	2	10 - 210	50 - 150	20	Q10
Vinyl chloride	50	38.4		77			46.93	0.00	26.73	28.51	57	59	6	33 - 145	15 - 153	20	
m&p-Xylene	100	84.77		85			93.86	2.10	42.88	40.96	44	40	5	60 - 138	10 - 147	20	
o-Xylene	50	45.46		91			46.93	0.94	21.08	20.32	43	40	4	62 - 139	10 - 149	20	

62 compound(s) reported

* denotes recovery outside of QC limits.
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(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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LELAP # 02006

Method: EPA 8270 **Project:** 2066873 **LCS:** 20502806 2/23/2007 12:39:00 PM

Batch: 82377 **MS:** 20503801 2/27/2007 5:02:00 PM

Units: ug/L **Original for MS:** 20503772 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Acenaphthene	50	41.43		83			142.9	0.00	92.03	93.77	64	66	2	42 - 113	35 - 115	20	
Acenaphthylene	50	41.84		84			142.9	0.00	92.09	91.29	65	64	1	41 - 111	32 - 113	20	
Anthracene	50	44.68		89			142.9	0.00	92.86	94.09	65	66	1	46 - 115	36 - 115	20	
Benzo(a)anthracene	50	45.81		92			142.9	0.00	97.57	99.71	68	70	2	46 - 117	31 - 118	20	
Benzo(b)fluoranthene	50	40.83		82			142.9	0.00	90.97	91.23	64	64	0	39 - 129	24 - 130	20	
Benzo(k)fluoranthene	50	44.11		88			142.9	0.00	94.51	101.4	66	71	7	35 - 132	21 - 128	20	
Benzo(g,h,i)perylene	50	46.07		92			142.9	0.00	60.74	57.51	43	40	5	24 - 136	10 - 128	20	
Benzo(a)pyrene	50	42.28		85			142.9	0.00	83.83	81.74	59	57	3	40 - 120	22 - 118	20	
2-Chlorophenol	50	37.55		75			142.9	0.00	77.11	82.34	54	58	7	26 - 115	23 - 115	20	
Chrysene	50	40.62		81			142.9	0.00	84.63	85.03	59	60	0	45 - 118	31 - 117	20	
Dibenz(a,h)anthracene	50	48.32		97			142.9	0.00	64.34	63.69	45	45	1	29 - 136	11 - 132	20	
Dibenzofuran	50	44.79		90			142.9	0.00	97.66	101.1	68	71	3	45 - 113	38 - 115	20	
2,4-Dichlorophenol	50	28.74		58			142.9	0.00	78.09	82.06	55	57	5	36 - 116	29 - 119	20	
bis(2-Ethylhexyl)phthalate	50	44.67		89			142.9	3.03	85.34	94.77	58	64	10	30 - 154	16 - 145	20	
Fluoranthene	50	45.8		92			142.9	0.00	115.4	121.6	81	85	5	45 - 121	35 - 121	20	
Fluorene	50	40.88		82			142.9	0.00	93.86	92.6	66	65	1	45 - 116	36 - 120	20	
Indeno(1,2,3-cd)pyrene	50	48.23		97			142.9	0.00	66.2	64.66	46	45	2	29 - 131	12 - 126	20	
2-Methylnaphthalene	50	34.18		68			142.9	0.00	90.14	93.46	63	65	4	36 - 110	29 - 114	20	
2-Methylphenol (o-Cresol)	50	35.9		72			142.9	0.00	74.43	64.03	52	45	15	32 - 115	27 - 118	20	
4-Methylphenol (p-Cresol)	50	37.61		75			142.9	0.00	73.86	63.63	52	45	15	33 - 116	27 - 119	20	A7
Naphthalene	50	33.42		67			142.9	0.00	92.89	99.06	65	69	6	32 - 104	23 - 109	20	
4-Nitrophenol	50	40.94		82			142.9	0.00	144.7	157.1	101	110	8	25 - 140	10 - 158	20	
Pentachlorophenol	50	43.85		88			142.9	0.00	114.1	117.8	80	82	3	32 - 133	24 - 147	20	
Phenanthrene	50	42.65		85			142.9	0.00	91.8	97.51	64	68	6	48 - 115	38 - 117	20	
Pyrene	50	37.3		75			142.9	0.00	71.8	67.83	50	48	6	42 - 119	31 - 122	20	
2,4,5-Trichlorophenol	50	34.4		69			142.9	0.00	92.29	88.97	65	62	4	41 - 120	35 - 122	20	
2,4,6-Trichlorophenol	50	38.67		77			142.9	0.00	87.8	89.4	62	63	2	39 - 120	33 - 124	20	

27 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Report of Quality Control

Pace Analytical Services, Inc.
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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Method: EPA 8270 **Project:** 2066873 **LCS:** 20502977 3/2/2007 1:23:00 PM

Batch: 82564 **MS:**

Units: ug/L **Original for MS:**

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Acenaphthene	50	34.82		70										42 - 113	-		Q5
Acenaphthylene	50	34.33		69										41 - 111	-		Q5
Anthracene	50	34.95		70										46 - 115	-		Q5
Benzo(a)anthracene	50	35.18		70										46 - 117	-		Q5
Benzo(b)fluoranthene	50	35.12		70										39 - 129	-		Q5
Benzo(k)fluoranthene	50	37.76		76										35 - 132	-		Q5
Benzoic acid	50	14.86		30										10 - 132	-		Q5
Benzo(g,h,i)perylene	50	31.04		62										24 - 136	-		Q5
Benzo(a)pyrene	50	33.67		67										40 - 120	-		Q5
Benzyl alcohol	50	36.54		73										27 - 120	-		Q5
4-Bromophenylphenyl ether	50	34.21		68										44 - 117	-		Q5
Butylbenzylphthalate	50	35.98		72										38 - 126	-		Q5
Carbazole	50	35.77		72										32 - 130	-		Q5
4-Chloro-3-methylphenol	50	30.18		60										37 - 118	-		Q5
4-Chloroaniline	50	26.17		52										10 - 114	-		Q5
bis(2-Chloroethoxy)methan	50	29.14		58										32 - 113	-		Q5
bis(2-Chloroethyl) ether	50	35.92		72										27 - 113	-		Q5
2-Chloronaphthalene	50	31.89		64										41 - 111	-		Q5
2-Chlorophenol	50	35.79		72										26 - 115	-		Q5
4-Chlorophenylphenyl ether	50	33.55		67										42 - 117	-		Q5
Chrysene	50	35.03		70										45 - 118	-		Q5
Dibenz(a,h)anthracene	50	33.55		67										29 - 136	-		Q5
Dibenzofuran	50	33.11		66										45 - 113	-		Q5
1,2-Dichlorobenzene	50	29.25		59										20 - 99	-		Q5
1,3-Dichlorobenzene	50	28.19		56										16 - 96	-		Q5
1,4-Dichlorobenzene	50	28.66		57										17 - 97	-		Q5
3,3'-Dichlorobenzidine	50	31.82		64										10 - 124	-		Q5
2,4-Dichlorophenol	50	29.03		58										36 - 116	-		Q5
Diethylphthalate	50	35.6		71										43 - 120	-		Q5
2,4-Dimethylphenol	50	24.9		50										18 - 110	-		Q5
Dimethylphthalate	50	34.61		69										45 - 116	-		Q5
Di-n-butylphthalate	50	36.27		73										43 - 123	-		Q5
4,6-Dinitro-2-methylphenol	50	42.95		86										33 - 137	-		Q5
2,4-Dinitrophenol	50	32.34		65										17 - 148	-		Q5
2,4-Dinitrotoluene	50	39.48		79										43 - 121	-		Q5
2,6-Dinitrotoluene	50	40.09		80										45 - 119	-		Q5
Di-n-octylphthalate	50	39.2		78										32 - 140	-		Q5
bis(2-Ethylhexyl)phthalate	50	42.86		86										30 - 154	-		Q5
Fluoranthene	50	34.65		69										45 - 121	-		Q5

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Method: EPA 8270 **Project:** 2066873 **LCS:** 20502977 3/2/2007 1:23:00 PM

Batch: 82564 **MS:**

Units: ug/L **Original for MS:**

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Fluorene	50	35.38		71										45 - 116	-		Q5
Hexachloro-1,3-butadiene	50	24.37		49										20 - 101	-		Q5
Hexachlorobenzene	50	34.82		70										44 - 119	-		Q5
Hexachlorocyclopentadiene	50	9.56		19										10 - 60	-		Q5
Hexachloroethane	50	28.73		58										15 - 96	-		Q5
Indeno(1,2,3-cd)pyrene	50	32.3		65										29 - 131	-		Q5
Isophorone	50	30.64		61										38 - 115	-		Q5
2-Methylnaphthalene	50	28.35		57										36 - 110	-		Q5
2-Methylphenol (o-Cresol)	50	35.42		71										32 - 115	-		Q5
4-Methylphenol (p-Cresol)	50	35.54		71										33 - 116	-		A7,Q5
Naphthalene	50	27.32		55										32 - 104	-		Q5
2-Nitroaniline	50	37.81		76										34 - 120	-		Q5
3-Nitroaniline	50	33.91		68										22 - 126	-		Q5
4-Nitroaniline	50	33.83		68										26 - 127	-		Q5
Nitrobenzene	50	29.77		60										31 - 118	-		Q5
2-Nitrophenol	50	31.17		62										33 - 117	-		Q5
4-Nitrophenol	50	31.43		63										25 - 140	-		Q5
N-Nitroso-di-n-propylamine	50	36.94		74										34 - 115	-		Q5
N-Nitrosodiphenylamine	50	32.46		65										32 - 115	-		A10,Q
2,2'-Oxybis(1-chloropropan	50	34.73		70										21 - 123	-		Q5
Pentachlorophenol	50	42.11		84										32 - 133	-		Q5
Phenanthrene	50	35.09		70										48 - 115	-		Q5
Phenol	50	34.03		68										24 - 118	-		Q5
Pyrene	50	36.51		73										42 - 119	-		Q5
1,2,4-Trichlorobenzene	50	24.67		49										27 - 100	-		Q5
2,4,5-Trichlorophenol	50	34.53		69										41 - 120	-		Q5
2,4,6-Trichlorophenol	50	35.96		72										39 - 120	-		Q5

66 compound(s) reported

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Phone: 504.469.0333
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LELAP # 02006

Method: EPA 8270 **Project:** 2066873 **LCS:**

Batch: 82568 **MS:** 20503000 2/25/2007 12:11:00 AM

Units: ug/kg **Original for MS:** 20500992 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Aniline							1667	0.00	604	738.7	36 *	44	20	-	40 - 120	20	D2,Q1
1-Methylnaphthalene							1667	0.00	906.7	881.3	54	53	3	-	-		D2

2 compound(s) reported

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(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Phone: 504.469.0333
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LELAP # 02006

Method: EPA 8270 **Project:** 2066873 **LCS:** 20503813 2/26/2007 4:02:00 PM

Batch: 82568 **MS:** 20503000 2/25/2007 12:11:00 AM

Units: ug/kg **Original for MS:** 20500992 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Acenaphthene	1667	1003		60			1667	0.00	704	657.3	42	39	7	45 - 110	23 - 121	20	D2
Acenaphthylene	1667	921.3		55			1667	0.00	702.7	669.3	42	40	5	48 - 107	27 - 115	20	D2
Anthracene	1667	960.7		58			1667	0.00	750.7	708	45	43	6	51 - 110	25 - 123	20	D2
Benzo(a)anthracene	1667	909.3		55			1667	0.00	802.7	740	48	44	8	49 - 112	25 - 123	20	D2
Benzo(b)fluoranthene	1667	999		60			1667	0.00	978.7	950.7	59	57	3	43 - 119	15 - 140	20	D2
Benzo(k)fluoranthene	1667	954		57			1667	0.00	970.7	908	58	55	7	40 - 121	14 - 138	20	D2
Benzo(g,h,i)perylene	1667	1027		62			1667	0.00	509.3	446.7	31	27	13	29 - 129	10 - 125	20	D2
Benzo(a)pyrene	1667	935		56			1667	0.00	830.7	725.3	50	44	14	48 - 115	20 - 128	20	D2
Butylbenzylphthalate	1667	881.7		53			1667	0.00	1389	1239	83	74	11	41 - 122	18 - 137	20	D2
4-Chloroaniline	1667	725.3		44			1667	0.00	597.3	653.3	36	39	9	10 - 86	10 - 79	20	D2
bis(2-Chloroethyl) ether	1667	834.7		50			1667	0.00	830.7	768	50	46	8	38 - 104	21 - 107	20	D2
2-Chloronaphthalene	1667	940		56			1667	0.00	786.7	754.7	47	45	4	44 - 108	26 - 112	20	D2
2-Chlorophenol	1667	878.3		53			1667	0.00	785.3	694.7	47	42	12	38 - 109	24 - 110	20	D2
Chrysene	1667	836.3		50			1667	0.00	760	645.3	46	39	16	47 - 113	21 - 124	20	D2
Dibenz(a,h)anthracene	1667	1015		61			1667	0.00	540	437.3	32	26	21 *	35 - 127	10 - 122	20	D2
Dibenzofuran	1667	895.3		54			1667	0.00	756	696	45	42	8	46 - 110	21 - 123	20	D2
1,2-Dichlorobenzene	1667	895		54			1667	0.00	840	808	50	49	4	36 - 103	13 - 107	20	D2
1,3-Dichlorobenzene	1667	856.3		51			1667	0.00	809.3	716	49	43	12	33 - 102	10 - 107	20	D2
1,4-Dichlorobenzene	1667	873.3		52			1667	0.00	818.7	737.3	49	44	10	32 - 103	10 - 107	20	D2
3,3'-Dichlorobenzidine	1667	666		40			1667	0.00	0	352	0 *	21	200 *	10 - 111	10 - 117	20	D2,Q1
2,4-Dichlorophenol	1667	867.7		52			1667	0.00	665.3	629.3	40	38	6	45 - 110	25 - 116	20	D2
Diethylphthalate	1667	847		51			1667	0.00	650.7	644	39	39	1	46 - 113	29 - 115	20	D2
2,4-Dimethylphenol	1667	852.3		51			1667	0.00	804	686.7	48	41	16	40 - 110	21 - 116	20	D2
Dimethylphthalate	1667	855		51			1667	0.00	698.7	645.3	42	39	8	47 - 110	30 - 111	20	D2
2,4-Dinitrophenol	1667	969		58			1667	0.00	1008	0	61	0 *	200 *	14 - 134	10 - 139	20	D2,Q1
2,4-Dinitrotoluene	1667	819.7		49			1667	0.00	585.3	541.3	35	33	8	45 - 117	24 - 124	20	D2
2,6-Dinitrotoluene	1667	851		51			1667	0.00	677.3	669.3	41	40	1	47 - 114	29 - 116	20	D2
Di-n-octylphthalate	1667	957		57			1667	0.00	2175	2227	131	134	2	36 - 132	10 - 176	20	D2
bis(2-Ethylhexyl)phthalate	1667	750.7		45			1667	0.00	1059	993.3	64	60	6	41 - 125	14 - 144	20	D2
Fluoranthene	1667	997.3		60			1667	0.00	538.7	513.3	32	31	5	47 - 115	19 - 130	20	D2
Fluorene	1667	895.3		54			1667	0.00	688	670.7	41	40	3	48 - 111	24 - 123	20	D2
Hexachloro-1,3-butadiene	1667	977.7		59			1667	0.00	841.3	750.7	51	45	11	37 - 110	16 - 114	20	D2
Hexachlorobenzene	1667	912.7		55			1667	0.00	784	750.7	47	45	4	45 - 114	27 - 117	20	D2
Hexachlorocyclopentadiene	1667	1132		68			1667	0.00	0	0	0 *	0 *	0	21 - 114	10 - 108	20	D2,Q1
Hexachloroethane	1667	903.3		54			1667	0.00	793.3	714.7	48	43	10	32 - 104	10 - 114	20	D2
Indeno(1,2,3-cd)pyrene	1667	1051		63			1667	0.00	489.3	440	29	26	11	35 - 125	10 - 122	20	D2
Isophorone	1667	863		52			1667	0.00	830.7	790.7	50	47	5	43 - 110	27 - 113	20	D2
2-Methylnaphthalene	1667	907.7		55			1667	0.00	782.7	776	47	47	1	44 - 109	17 - 123	20	D2
Naphthalene	1667	939		56			1667	0.00	725.3	693.3	44	42	5	42 - 103	18 - 115	20	D2

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LELAP # 02006

Method: EPA 8270 **Project:** 2066873 **LCS:** 20503813 2/26/2007 4:02:00 PM

Batch: 82568 **MS:** 20503000 2/25/2007 12:11:00 AM

Units: ug/kg **Original for MS:** 20500992 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
2-Nitroaniline	1667	929.7		56			1667	0.00	902.7	857.3	54	51	5	36 - 116	20 - 119	20	D2
3-Nitroaniline	1667	584.7		35			1667	0.00	688	734.7	41	44	7	17 - 98	10 - 113	20	D2
4-Nitroaniline	1667	767.3		46			1667	0.00	930.7	853.3	56	51	9	30 - 120	10 - 127	20	D2
Nitrobenzene	1667	931.7		56			1667	0.00	806.7	724	48	43	11	38 - 109	20 - 114	20	D2
4-Nitrophenol	1667	940		56			1667	0.00	614.7	533.3	37	32	14	30 - 132	10 - 138	20	D2
N-Nitroso-di-n-propylamine	1667	888		53			1667	0.00	865.3	872	52	52	1	37 - 110	18 - 118	20	D2
N-Nitrosodiphenylamine	1667	705.3		42			1667	0.00	776	730.7	47	44	6	39 - 117	10 - 139	20	D2,A1
2,2'-Oxybis(1-chloropropan	1667	872		52			1667	0.00	986.7	866.7	59	52	13	29 - 114	10 - 118	20	D2
Pentachlorophenol	1667	899.3		54			1667	0.00	466.7	324	28	19	36 *	28 - 122	10 - 142	20	D2
Phenanthrene	1667	970		58			1667	0.00	722.7	658.7	43	40	9	49 - 109	18 - 128	20	D2
Phenol	1667	875.3		53			1667	0.00	730.7	730.7	44	44	0	36 - 112	22 - 113	20	D2
Pyrene	1667	858		52			1667	0.00	1525	1361	92	82	11	45 - 114	10 - 144	20	D2
2,4,5-Trichlorophenol	1667	931		56			1667	0.00	633.3	620	38	37	2	45 - 113	25 - 117	20	D2
2,4,6-Trichlorophenol	1667	922.7		55			1667	0.00	628	612	38	37	3	45 - 112	25 - 116	20	D2

53 compound(s) reported

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LELAP # 02006

Method: EPA 8270 **Project:** 2066873 **LCS:** 20503821 3/8/2007 3:50:00 PM

Batch: 82735 **MS:** 20503822 3/8/2007 4:19:00 PM

Units: ug/kg **Original for MS:** 20502330 Project Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Acetophenone	1667	1023		61			1895	0.00	1134	1216	60	64	7	40 - 120	40 - 120	20	
bis(2-Ethylhexyl)phthalate	1667	1074		64			1895	0.00	1088	1248	57	66	14	41 - 125	14 - 144	20	
4-Nitrophenol	1667	1293		78			1895	0.00	1578	1672	83	88	6	30 - 132	10 - 138	20	
Pentachlorophenol	1667	1233		74			1895	0.00	1204	1717	64	91	35 *	28 - 122	10 - 142	20	

4 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

3/21/2007 16:46:09

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

Pace Analytical
New Orleans Laboratory

Report of Quality Control

Pace Analytical Services, Inc.
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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Method: EPA 8270 **Project:** 2066873 **LCS:** 20504480 3/3/2007 7:39:00 PM

Batch: 82863 **MS:** 20504481 3/4/2007 2:29:00 AM

Units: ug/kg **Original for MS:** 20502391 Project Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Acenaphthene	1667	860.3		52			1964	0.00	841.6	1047	43	53	22 *	45 - 110	23 - 121	20	
Acenaphthylene	1667	861.7		52			1964	0.00	853.8	1059	44	54	21 *	48 - 107	27 - 115	20	
Acetophenone	1667	774.7		47			1964	0.00	757.5	875.7	39 *	45	14	40 - 120	40 - 120	20	Q1
Aniline	1667	921.3		55			1964	0.00	744.6	766.6	38 *	39 *	3	40 - 120	40 - 120	20	Q1
Anthracene	1667	890.7		53			1964	0.00	940.5	1147	48	58	20	51 - 110	25 - 123	20	
Benzo(a)anthracene	1667	861		52			1964	0.00	917	1124	47	57	20	49 - 112	25 - 123	20	
Benzo(b)fluoranthene	1667	835		50			1964	0.00	955.9	1348	49	69	34 *	43 - 119	15 - 140	20	
Benzo(k)fluoranthene	1667	854.3		51			1964	0.00	959.4	1213	49	62	23 *	40 - 121	14 - 138	20	
Benzoic acid	1667	676.7		41			1964	0.00	0	234.1	0 *	12	200 *	11 - 140	10 - 141	20	Q1
Benzo(g,h,i)perylene	1667	838		50			1964	0.00	611.8	635.4	31	32	4	29 - 129	10 - 125	20	
Benzo(a)pyrene	1667	897.3		54			1964	0.00	951.5	1205	49	61	24 *	48 - 115	20 - 128	20	
Benzyl alcohol	1667	781.7		47			1964	0.00	744.6	914.2	38	47	20	38 - 111	20 - 115	20	
4-Bromophenylphenyl ether	1667	822		49			1964	0.00	777.6	936.6	40	48	19	45 - 111	27 - 115	20	
Butylbenzylphthalate	1667	781.7		47			1964	0.00	710.8	880.1	36	45	21 *	41 - 122	18 - 137	20	
Carbazole	1667	956		57			1964	0.00	1136	1411	58	72	22 *	23 - 136	15 - 137	20	
4-Chloro-3-methylphenol	1667	757		45			1964	0.00	767	875.4	39	45	13	38 - 116	19 - 122	20	
4-Chloroaniline	1667	619.7		37			1964	0.00	702.2	686.5	36	35	2	10 - 86	10 - 79	20	
bis(2-Chloroethoxy)methan	1667	694.3		42			1964	0.00	711.2	824.7	36	42	15	41 - 105	24 - 108	20	
bis(2-Chloroethyl) ether	1667	743		45			1964	0.00	724.6	792.9	37	40	9	38 - 104	21 - 107	20	
2-Chloronaphthalene	1667	816.7		49			1964	0.00	798	1005	41	51	23 *	44 - 108	26 - 112	20	
2-Chlorophenol	1667	770.3		46			1964	0.00	720.2	870.6	37	44	19	38 - 109	24 - 110	20	
4-Chlorophenylphenyl ether	1667	816.7		49			1964	0.00	823.9	1003	42	51	20	44 - 113	28 - 114	20	
Chrysene	1667	843.3		51			1964	0.00	891.8	1116	45	57	22 *	47 - 113	21 - 124	20	
Dibenz(a,h)anthracene	1667	870		52			1964	0.00	702.6	791.7	36	40	12	35 - 127	10 - 122	20	
Dibenzofuran	1667	830.3		50			1964	0.00	838.8	1017	43	52	19	46 - 110	21 - 123	20	
1,2-Dichlorobenzene	1667	729.3		44			1964	0.00	656.6	723.8	33	37	10	36 - 103	13 - 107	20	
1,3-Dichlorobenzene	1667	715		43			1964	0.00	616.6	668.8	31	34	8	33 - 102	10 - 107	20	
1,4-Dichlorobenzene	1667	719.3		43			1964	0.00	619.3	684.1	32	35	10	32 - 103	10 - 107	20	
3,3'-Dichlorobenzidine	1667	846		51			1964	0.00	342.8	122.1	18	6 *	95 *	10 - 111	10 - 117	20	Q1
2,4-Dichlorophenol	1667	719.7		43 *			1964	0.00	706.1	851.4	36	43	19	45 - 110	25 - 116	20	
Diethylphthalate	1667	850		51			1964	0.00	912.3	1052	47	54	14	46 - 113	29 - 115	20	
2,4-Dimethylphenol	1667	712.7		43			1964	0.00	555.3	628.3	28	32	12	40 - 110	21 - 116	20	
Dimethylphthalate	1667	840.3		50			1964	0.00	860	1023	44	52	17	47 - 110	30 - 111	20	
Di-n-butylphthalate	1667	852.3		51			1964	0.00	957.8	1175	49	60	20	44 - 118	25 - 120	20	
4,6-Dinitro-2-methylphenol	1667	860.3		52			1964	0.00	551	559.6	28	29	2	32 - 125	10 - 131	20	
2,4-Dinitrophenol	1667	774.3		47			1964	0.00	392.7	418.6	20	21	6	14 - 134	10 - 139	20	
2,4-Dinitrotoluene	1667	837.3		50			1964	0.00	925.2	1047	47	53	12	45 - 117	24 - 124	20	
2,6-Dinitrotoluene	1667	859.7		52			1964	0.00	886	1058	45	54	18	47 - 114	29 - 116	20	
Di-n-octylphthalate	1667	774.3		47			1964	0.00	934.7	1334	48	68	35 *	36 - 132	10 - 176	20	

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* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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New Orleans Laboratory

Report of Quality Control

Pace Analytical Services, Inc.
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St. Rose , LA 70087

Phone: 504.469.0333
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LELAP # 02006

Method: EPA 8270 **Project:** 2066873 **LCS:** 20504480 3/3/2007 7:39:00 PM

Batch: 82863 **MS:** 20504481 3/4/2007 2:29:00 AM

Units: ug/kg **Original for MS:** 20502391 Project Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
bis(2-Ethylhexyl)phthalate	1667	801.3		48			1964	0.00	798.8	978.2	41	50	20	41 - 125	14 - 144	20	
Fluoranthene	1667	926.7		56			1964	51.84	1321	1728	65	85	27 *	47 - 115	19 - 130	20	
Fluorene	1667	872.7		52			1964	0.00	884	1063	45	54	18	48 - 111	24 - 123	20	
Hexachloro-1,3-butadiene	1667	682.3		41			1964	0.00	656.2	759.9	33	39	15	37 - 110	16 - 114	20	
Hexachlorobenzene	1667	844		51			1964	0.00	806.6	981.8	41	50	20	45 - 114	27 - 117	20	
Hexachlorocyclopentadiene	1667	791.7		48			1964	0.00	679.8	818.8	35	42	19	21 - 114	10 - 108	20	
Hexachloroethane	1667	768		46			1964	0.00	662.5	712	34	36	7	32 - 104	10 - 114	20	
Indeno(1,2,3-cd)pyrene	1667	873		52			1964	0.00	695.5	761.1	35	39	9	35 - 125	10 - 122	20	
Isophorone	1667	766.3		46			1964	0.00	779.9	901.7	40	46	14	43 - 110	27 - 113	20	
1-Methylnaphthalene	1667	914.3		55			1964	0.00	898.9	1046	46	53	15	-	-		
2-Methylnaphthalene	1667	702.3		42 *			1964	0.00	696.7	827	36	42	17	44 - 109	17 - 123	20	
2-Methylphenol (o-Cresol)	1667	808		49			1964	0.00	684.1	854.9	35	44	22 *	44 - 109	25 - 114	20	
4-Methylphenol (p-Cresol)	1667	820		49			1964	0.00	673.5	827.8	34	42	21 *	42 - 112	25 - 114	20	A7
Naphthalene	1667	674.7		41 *			1964	0.00	681.7	790.9	35	40	15	42 - 103	18 - 115	20	
2-Nitroaniline	1667	892.3		54			1964	0.00	948	1131	48	58	18	36 - 116	20 - 119	20	
3-Nitroaniline	1667	734		44			1964	0.00	843.9	823.1	43	42	2	17 - 98	10 - 113	20	
4-Nitroaniline	1667	896		54			1964	0.00	970.4	897.3	49	46	8	30 - 120	10 - 127	20	
Nitrobenzene	1667	720.7		43			1964	0.00	707.3	809.8	36	41	14	38 - 109	20 - 114	20	
2-Nitrophenol	1667	692.3		42			1964	0.00	708.1	820.8	36	42	15	42 - 110	19 - 117	20	
4-Nitrophenol	1667	953.3		57			1964	0.00	1184	1402	60	71	17	30 - 132	10 - 138	20	
N-Nitroso-di-n-propylamine	1667	857.3		51			1964	0.00	796.8	929.2	41	47	15	37 - 110	18 - 118	20	
N-Nitrosodiphenylamine	1667	818.7		49			1964	0.00	758.3	924.8	39	47	20	39 - 117	10 - 139	20	A10
2,2'-Oxybis(1-chloropropan	1667	742.3		45			1964	0.00	705.3	801.1	36	41	13	29 - 114	10 - 118	20	
Pentachlorophenol	1667	980		59			1964	0.00	1147	1319	58	67	14	28 - 122	10 - 142	20	
Phenanthrene	1667	855		51			1964	0.00	908.7	1098	46	56	19	49 - 109	18 - 128	20	
Phenol	1667	793		48			1964	0.00	730.1	889.5	37	45	20	36 - 112	22 - 113	20	
Pyrene	1667	763		46			1964	0.00	661.3	790.5	34	40	18	45 - 114	10 - 144	20	
1,2,4-Trichlorobenzene	1667	668.7		40			1964	0.00	660.5	770.5	34	39	15	37 - 108	19 - 112	20	
2,4,5-Trichlorophenol	1667	845		51			1964	0.00	867.1	1039	44	53	18	45 - 113	25 - 117	20	
2,4,6-Trichlorophenol	1667	846.7		51			1964	0.00	828.6	1044	42	53	23 *	45 - 112	25 - 116	20	

69 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Report of Quality Control

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St. Rose , LA 70087

Phone: 504.469.0333
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LELAP # 02006

Method: EPA 8270 **Project:** 2066873 **LCS:** 20505594 3/7/2007 6:09:00 PM

Batch: 83084 **MS:** 20505595 3/7/2007 10:50:00 PM

Units: ug/kg **Original for MS:** 20502391 Project Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Acenaphthene	1667	1502		90			1964	0.00	1386	1360	71	69	2	45 - 110	23 - 121	20	
Acenaphthylene	1667	1498		90			1964	0.00	1387	1371	71	70	1	48 - 107	27 - 115	20	
Acetophenone	1667	1334		80			1964	0.00	1451	1351	74	69	7	40 - 120	40 - 120	20	
Aniline	1667	1628		98			1964	0.00	1415	1500	72	76	6	40 - 120	40 - 120	20	
Anthracene	1667	1525		92			1964	0.00	1479	1428	75	73	4	51 - 110	25 - 123	20	
Benzo(a)anthracene	1667	1486		89			1964	0.00	1408	1325	72	68	6	49 - 112	25 - 123	20	
Benzo(b)fluoranthene	1667	1390		83			1964	0.00	1773	1739	90	89	2	43 - 119	15 - 140	20	
Benzo(k)fluoranthene	1667	1453		87			1964	0.00	1895	1891	97	96	0	40 - 121	14 - 138	20	
Benzoic acid	1667	1069		64			1964	0.00	90.32	72.26	5 *	4 *	22 *	11 - 140	10 - 141	20	Q1
Benzo(g,h,i)perylene	1667	1575		95			1964	0.00	531.7	487.7	27	25	9	29 - 129	10 - 125	20	
Benzo(a)pyrene	1667	1518		91			1964	0.00	1473	1422	75	72	4	48 - 115	20 - 128	20	
Benzyl alcohol	1667	1392		84			1964	0.00	1487	1356	76	69	9	38 - 111	20 - 115	20	
4-Bromophenylphenyl ether	1667	1533		92			1964	0.00	1183	1173	60	60	1	45 - 111	27 - 115	20	
Butylbenzylphthalate	1667	1365		82			1964	0.00	1612	1629	82	83	1	41 - 122	18 - 137	20	
Carbazole	1667	1497		90			1964	0.00	1446	1420	74	72	2	23 - 136	15 - 137	20	
4-Chloro-3-methylphenol	1667	1306		78			1964	0.00	1523	1420	78	72	7	38 - 116	19 - 122	20	
4-Chloroaniline	1667	965.3		58			1964	0.00	1272	1328	65	68	4	10 - 86	10 - 79	20	
bis(2-Chloroethoxy)methan	1667	1348		81			1964	0.00	1300	1235	66	63	5	41 - 105	24 - 108	20	
bis(2-Chloroethyl) ether	1667	1438		86			1964	0.00	1409	1294	72	66	8	38 - 104	21 - 107	20	
2-Chloronaphthalene	1667	1447		87			1964	0.00	1245	1219	63	62	2	44 - 108	26 - 112	20	
2-Chlorophenol	1667	1433		86			1964	0.00	1459	1313	74	67	10	38 - 109	24 - 110	20	
4-Chlorophenylphenyl ether	1667	1381		83			1964	0.00	1413	1332	72	68	6	44 - 113	28 - 114	20	
Chrysene	1667	1499		90			1964	0.00	1391	1317	71	67	5	47 - 113	21 - 124	20	
Dibenz(a,h)anthracene	1667	1530		92			1964	0.00	607.5	575.7	31	29	5	35 - 127	10 - 122	20	
Dibenzofuran	1667	1399		84			1964	0.00	1366	1341	70	68	2	46 - 110	21 - 123	20	
1,2-Dichlorobenzene	1667	1455		87			1964	0.00	1393	1325	71	68	5	36 - 103	13 - 107	20	
1,3-Dichlorobenzene	1667	1405		84			1964	0.00	1387	1267	71	65	9	33 - 102	10 - 107	20	
1,4-Dichlorobenzene	1667	1444		87			1964	0.00	1373	1294	70	66	6	32 - 103	10 - 107	20	
3,3'-Dichlorobenzidine	1667	1194		72			1964	0.00	1015	1078	52	55	6	10 - 111	10 - 117	20	
2,4-Dichlorophenol	1667	1401		84			1964	0.00	1412	1304	72	66	8	45 - 110	25 - 116	20	
Diethylphthalate	1667	1309		79			1964	0.00	1339	1285	68	65	4	46 - 113	29 - 115	20	
2,4-Dimethylphenol	1667	1426		86			1964	0.00	1174	1119	60	57	5	40 - 110	21 - 116	20	
Dimethylphthalate	1667	1331		80			1964	0.00	1259	1243	64	63	1	47 - 110	30 - 111	20	
Di-n-butylphthalate	1667	1362		82			1964	0.00	1300	1250	66	64	4	44 - 118	25 - 120	20	
4,6-Dinitro-2-methylphenol	1667	1526		92			1964	0.00	454.4	401.4	23	20	12	32 - 125	10 - 131	20	
2,4-Dinitrophenol	1667	1173		70			1964	0.00	119	107.2	6 *	6 *	10	14 - 134	10 - 139	20	Q1
2,4-Dinitrotoluene	1667	1292		78			1964	0.00	1385	1424	71	73	3	45 - 117	24 - 124	20	
2,6-Dinitrotoluene	1667	1380		83			1964	0.00	1340	1341	68	68	0	47 - 114	29 - 116	20	
Di-n-octylphthalate	1667	1240		74			1964	0.00	3274	3665	167	187 *	11	36 - 132	10 - 176	20	Q1

3/21/2007 16:46:10

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Phone: 504.469.0333
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LELAP # 02006

Method: EPA 8270 **Project:** 2066873 **LCS:** 20505594 3/7/2007 6:09:00 PM

Batch: 83084 **MS:** 20505595 3/7/2007 10:50:00 PM

Units: ug/kg **Original for MS:** 20502391 Project Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
bis(2-Ethylhexyl)phthalate	1667	1307		78			1964	0.00	1630	1648	83	84	1	41 - 125	14 - 144	20	
Fluoranthene	1667	1390		83			1964	64.40	1460	1400	71	68	4	47 - 115	19 - 130	20	
Fluorene	1667	1405		84			1964	0.00	1503	1460	77	74	3	48 - 111	24 - 123	20	
Hexachloro-1,3-butadiene	1667	1498		90			1964	0.00	1299	1241	66	63	5	37 - 110	16 - 114	20	
Hexachlorobenzene	1667	1555		93			1964	0.00	1312	1263	67	64	4	45 - 114	27 - 117	20	
Hexachlorocyclopentadiene	1667	1590		95			1964	0.00	992.4	998.7	51	51	1	21 - 114	10 - 108	20	
Hexachloroethane	1667	1457		87			1964	0.00	1393	1304	71	66	7	32 - 104	10 - 114	20	
Indeno(1,2,3-cd)pyrene	1667	1534		92			1964	0.00	610.3	547.4	31	28	11	35 - 125	10 - 122	20	
Isophorone	1667	1462		88			1964	0.00	1477	1384	75	71	6	43 - 110	27 - 113	20	
1-Methylnaphthalene	1667	1449		87			1964	0.00	1485	1366	76	70	8	-	-		
2-Methylnaphthalene	1667	1378		83			1964	0.00	1387	1313	71	67	5	44 - 109	17 - 123	20	
2-Methylphenol (o-Cresol)	1667	1402		84			1964	0.00	1436	1329	73	68	8	44 - 109	25 - 114	20	
4-Methylphenol (p-Cresol)	1667	1372		82			1964	0.00	1450	1275	74	65	13	42 - 112	25 - 114	20	A7
Naphthalene	1667	1498		90			1964	0.00	1431	1368	73	70	4	42 - 103	18 - 115	20	
2-Nitroaniline	1667	1418		85			1964	0.00	1380	1377	70	70	0	36 - 116	20 - 119	20	
3-Nitroaniline	1667	1007		60			1964	0.00	1349	1424	69	73	5	17 - 98	10 - 113	20	
4-Nitroaniline	1667	1411		85			1964	0.00	1661	1537	85	78	8	30 - 120	10 - 127	20	
Nitrobenzene	1667	1420		85			1964	0.00	1338	1250	68	64	7	38 - 109	20 - 114	20	
2-Nitrophenol	1667	1461		88			1964	0.00	1358	1323	69	67	3	42 - 110	19 - 117	20	
4-Nitrophenol	1667	1255		75			1964	0.00	1410	1417	72	72	0	30 - 132	10 - 138	20	
N-Nitroso-di-n-propylamine	1667	1410		85			1964	0.00	1473	1340	75	68	9	37 - 110	18 - 118	20	
N-Nitrosodiphenylamine	1667	1473		88			1964	0.00	1169	1135	60	58	3	39 - 117	10 - 139	20	A10
2,2'-Oxybis(1-chloropropan	1667	1431		86			1964	0.00	1407	1308	72	67	7	29 - 114	10 - 118	20	
Pentachlorophenol	1667	1768		106			1964	0.00	1372	1395	70	71	2	28 - 122	10 - 142	20	
Phenanthrene	1667	1489		89			1964	0.00	1401	1350	71	69	4	49 - 109	18 - 128	20	
Phenol	1667	1418		85			1964	0.00	1535	1399	78	71	9	36 - 112	22 - 113	20	
Pyrene	1667	1491		90			1964	67.94	1944	1848	96	91	5	45 - 114	10 - 144	20	
1,2,4-Trichlorobenzene	1667	1476		89			1964	0.00	1293	1252	66	64	3	37 - 108	19 - 112	20	
2,4,5-Trichlorophenol	1667	1364		82			1964	0.00	1329	1310	68	67	1	45 - 113	25 - 117	20	
2,4,6-Trichlorophenol	1667	1444		87			1964	0.00	1296	1264	66	64	2	45 - 112	25 - 116	20	

69 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Report of Batch Surrogate Recovery

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Report: 2066873 **Batch: 82377**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20501959	BLANK	44	47	41	46	46	53		
20501960	LCS	61	62	54	63	60	68		
20502397	Sample	60	68	58	71	61	62		
20502431	BLANK	43	48	41	46	46	53		
20502432	LCS	60	63	52	63	58	68		
20502805	BLANK	73	103	82	94	82	78		
20502806	LCS	108	97	89	79	101	91		
20503799	BLANK	71	66	64	73	55	68		
20503800	LCS	69	67	68	62	71	54		
20503801	MS	80	76	66	76	69	62		
20503802	MSD	83	77	68	79	64	54		
	QC limits:	25-133	36-108	10-109	21-120	15-113	17-130		

Sur 1: 2,4,6-Tribromophenol (S)
Sur 2: 2-Fluorobiphenyl (S)
Sur 3: 2-Fluorophenol (S)
Sur 4: Nitrobenzene-d5 (S)
Sur 5: Phenol-d5 (S)
Sur 6: Terphenyl-d14 (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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Report: 2066873 **Batch: 82479**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20502393	Sample	112	114	93					
20502394	Sample	114	113	93					
20502395	Sample	113	113	93					
20502396	Sample	121	110	95					
20502397	Sample	123	111	96					
20502398	Sample	124	111	94					
20502498	OQS	113	114	93					
20502547	BLANK	108	121	95					
20502548	LCS	109	111	96					
20502549	MS	105	114	99					
20502550	MSD	109	116	99					
20502954	BLANK	111	118	95					
20502955	LCS	114	109	95					
QC limits:		71-129	68-124	74-122					

Sur 1: 4-Bromofluorobenzene (S)
Sur 2: Dibromofluoromethane (S)
Sur 3: Toluene-d8 (S)

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A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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Report: 2066873 **Batch: 82550**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20502312	Sample	106	116	95					
20502313	Sample	107	113	95					
20502314	Sample	108	115	97					
20502315	Sample	109	114	95					
20502316	Sample	108	117	95					
20502319	Sample	111	118	94					
20502320	Sample	109	119	96					
20502322	Sample	105	121	95					
20502323	Sample	104	119	96					
20502324	Sample	107	115	95					
20502325	Sample	106	118	95					
20502329	Sample	109	118	96					
20502330	OQS	107	119	96					
20502331	Sample	106	119	96					
20502332	Sample	108	116	96					
20502333	Sample	109	120	94					
20502334	Sample	110	115	95					
20502335	Sample	105	120	96					
20502338	Sample	109	116	96					
20502343	Sample	110	124	96					
20502880	BLANK	106	112	94					
20502881	LCS	107	103	92					
20502882	MS	107	117	94					
20502883	MSD	105	117	94					
QC limits:		55-154	57-136	64-129					

Sur 1: 4-Bromofluorobenzene (S)
Sur 2: Dibromofluoromethane (S)
Sur 3: Toluene-d8 (S)

* denotes surrogate recovery outside of QC limits.
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A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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LELAP # 02006

Report: 2066873 **Batch: 82551**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20502344	Sample	124	118	97					
20502383	Sample	129	120	97					
20502384	Sample	122	117	98					
20502385	Sample	126	122	96					
20502386	Sample	123	120	97					
20502387	Sample	121	118	98					
20502388	Sample	124	118	96					
20502389	Sample	126	118	95					
20502390	Sample	123	120	98					
20502391	OQS	118	120	98					
20502392	Sample	123	116	96					
20502884	BLANK	124	120	95					
20502885	LCS	119	106	94					
20502886	MS	115	122	96					
20502887	MSD	112	120	96					
QC limits:		55-154	57-136	64-129					

Sur 1: 4-Bromofluorobenzene (S)
Sur 2: Dibromofluoromethane (S)
Sur 3: Toluene-d8 (S)

*** denotes surrogate recovery outside of QC limits.**
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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Report: 2066873 **Batch: 82552**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20502888	BLANK	89	120	94					
20502889	LCS	102	107	95					
20503065	MS P5	104	113	93					
20503066	MSD P5	105	110	94					
	QC limits:	45-146	50-137	51-140					

Sur 1: 4-Bromofluorobenzene (S)
Sur 2: Dibromofluoromethane (S)
Sur 3: Toluene-d8 (S)

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Report: 2066873 **Batch: 82564**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20502398	Sample	66	56	53	50	54	71		
20502976	BLANK	62	64	58	69	66	91		
20502977	LCS	86	68	69	60	70	76		
	QC limits:	25-133	36-108	10-109	21-120	15-113	17-130		

Sur 1: 2,4,6-Tribromophenol (S)
Sur 2: 2-Fluorobiphenyl (S)
Sur 3: 2-Fluorophenol (S)
Sur 4: Nitrobenzene-d5 (S)
Sur 5: Phenol-d5 (S)
Sur 6: Terphenyl-d14 (S)

*** denotes surrogate recovery outside of QC limits.**
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
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A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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LELAP # 02006

Report: 2066873 **Batch: 82568**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20500992	OQS D2	44	45	36	46	52	113		
20502335	Sample	65	79	54	68	57	54		
20502998	BLANK	64	71	57	68	66	73		
20502999	LCS	74	73	62	72	69	74		
20503000	MS D2,Q	54	51	42	53	58	121 D		
20503001	MSD D2	49	44	39	43	54	101		
20503002	BLANK	62	72	54	65	62	72		
20503003	LCS	71	77	61	63	67	66		
20503812	BLANK	68	91	71	83	73	66		
20503813	LCS	57	61	46	54	52	53		
20503824	BLANK	83	87	66	77	73	86		
20503825	LCS	94	99	76	84	75	75		
QC limits:		10-127	18-116	10-109	10-121	20-107	30-113		

Sur 1: 2,4,6-Tribromophenol (S)
Sur 2: 2-Fluorobiphenyl (S)
Sur 3: 2-Fluorophenol (S)
Sur 4: Nitrobenzene-d5 (S)
Sur 5: Phenol-d5 (S)
Sur 6: Terphenyl-d14 (S)

*** denotes surrogate recovery outside of QC limits.**
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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LELAP # 02006

Report: 2066873 **Batch: 82609**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20502317	Sample	137	116	98					
20502318	Sample	141	115	99					
20502321	Sample	124	113	102					
20502698	OQS	130	111	101					
20503143	BLANK	133	106	100					
20503144	LCS	103	101	103					
20503145	MS	103	111	101					
20503146	MSD	107	111	103					
	QC limits:	55-154	57-136	64-129					

Sur 1: 4-Bromofluorobenzene (S)
Sur 2: Dibromofluoromethane (S)
Sur 3: Toluene-d8 (S)

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A Lab ID with a MSD suffix is a matrix spike duplicate.

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LELAP # 02006

Report: 2066873 **Batch: 82735**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20502312	Sample	67	56	55	61	65	60		
20502313	Sample	89	63	50	61	55	44		
20502314	Sample	75	55	51	63	58	55		
20502315	Sample	71	59	55	66	62	62		
20502316	Sample	67	52	47	57	53	52		
20502317	Sample	64	53	46	60	50	48		
20502318	Sample	75	56	55	63	64	63		
20502319	Sample	66	50	47	55	52	50		
20502320	Sample	96	66	52	65	57	51		
20502321	Sample	82	67	53	67	59	55		
20502322	Sample	86	63	49	62	55	48		
20502323	Sample	58	64	51	65	57	51		
20502324	Sample	29	22	19	24	21	18 *		
20502325	Sample	64	64	56	59	54	59		
20502329	Sample	71	51	48	58	55	56		
20502330	OQS	55	52	43	54	47	31		
20502331	Sample	65	63	56	60	57	57		
20502332	Sample	64	67	56	64	56	60		
20502333	Sample	48	61	48	56	50	59		
20502334	Sample	69	61	54	58	55	58		
20503820	BLANK	60	68	58	70	66	70		
20503821	LCS	73	66	55	55	62	63		
20503822	MS	65	63	55	55	62	43		
20503823	MSD	72	70	57	58	63	47		
QC limits:		10-127	18-116	10-109	10-121	20-107	30-113		

Sur 1: 2,4,6-Tribromophenol (S)
Sur 2: 2-Fluorobiphenyl (S)
Sur 3: 2-Fluorophenol (S)
Sur 4: Nitrobenzene-d5 (S)
Sur 5: Phenol-d5 (S)
Sur 6: Terphenyl-d14 (S)

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A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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LELAP # 02006

Report: 2066873 **Batch: 82863**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20502338	Sample	58	49	39	48	49	52		
20502343	Sample	46	45	38	46	45	42		
20502344	Sample	43	46	32	45	41	36		
20502383	Sample	54	56	34	48	45	49		
20502384	Sample	57	43	31	38	39	55		
20502385	Sample	64	63	52	62	60	58		
20502386	Sample	49	47	40	45	46	62		
20502387	Sample	70	55	45	48	51	77		
20502388	Sample	44	36	32	33	34	54		
20502389	Sample	59	54	38	48	48	83		
20502390	Sample	42	43	34	42	41	38		
20502391	OQS N	1 *	0 *	0 *	0 *	0 *	1 *		
20502392	Sample	62	58	46	53	55	58		
20504479	BLANK	53	48	42	48	48	55		
20504480	LCS	56	55	45	45	52	50		
20504481	MS	48	44	31	37	39	34		
20504482	MSD	57	56	36	42	47	42		
	QC limits:	10-127	18-116	10-109	10-121	20-107	30-113		

Sur 1: 2,4,6-Tribromophenol (S)
Sur 2: 2-Fluorobiphenyl (S)
Sur 3: 2-Fluorophenol (S)
Sur 4: Nitrobenzene-d5 (S)
Sur 5: Phenol-d5 (S)
Sur 6: Terphenyl-d14 (S)

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A Lab ID with a MSD suffix is a matrix spike duplicate.

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Report: 2066873 **Batch: 83084**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20502391	OQS N	65	58	54	61	64	92		
20505593	BLANK	66	66	59	64	64	78		
20505594	LCS	100	95	80	89	88	94		
20505595	MS	68	64	59	68	75	98		
20505596	MSD	68	62	57	64	69	94		
	QC limits:	10-127	18-116	10-109	10-121	20-107	30-113		

Sur 1: 2,4,6-Tribromophenol (S)
Sur 2: 2-Fluorobiphenyl (S)
Sur 3: 2-Fluorophenol (S)
Sur 4: Nitrobenzene-d5 (S)
Sur 5: Phenol-d5 (S)
Sur 6: Terphenyl-d14 (S)

*** denotes surrogate recovery outside of QC limits.**
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health .Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20502547

Description: 8260 VOAs Full List Water BLK **Project No.:** 2066873

Method: EPA 8260 **Batch:** 82479 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 16-Feb-07 **Analyzed:** 02/16/07 19:19 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
67-64-1	Acetone	1	ND	A11	10.0
75-05-8	Acetonitrile	1	ND		100.
107-02-8	Acrolein	1	ND		20.0
107-13-1	Acrylonitrile	1	ND		20.0
107-05-1	Allyl chloride	1	ND		10.0
71-43-2	Benzene	1	ND		5.00
75-27-4	Bromodichloromethane	1	ND		5.00
75-25-2	Bromoform	1	ND		5.00
74-83-9	Bromomethane	1	ND		5.00
78-93-3	2-Butanone (MEK)	1	ND	A11	10.0
75-15-0	Carbon disulfide	1	ND		5.00
56-23-5	Carbon tetrachloride	1	ND		5.00
108-90-7	Chlorobenzene	1	ND		5.00
75-00-3	Chloroethane	1	ND		5.00
67-66-3	Chloroform	1	ND		5.00
74-87-3	Chloromethane	1	ND		5.00
126-99-8	Chloroprene	1	ND		5.00
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.00
124-48-1	Dibromochloromethane	1	ND		5.00
106-93-4	1,2-Dibromoethane (EDB)	1	ND		5.00
74-95-3	Dibromomethane	1	ND		5.00
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		5.00
75-71-8	Dichlorodifluoromethane	1	ND		5.00
75-34-3	1,1-Dichloroethane	1	ND		5.00
107-06-2	1,2-Dichloroethane	1	ND		5.00
75-35-4	1,1-Dichloroethene	1	ND		5.00
156-59-2	cis-1,2-Dichloroethene	1	ND		5.00
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00
78-87-5	1,2-Dichloropropane	1	ND		5.00
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		250.
100-41-4	Ethylbenzene	1	ND		5.00
97-63-2	Ethyl methacrylate	1	ND		10.0
591-78-6	2-Hexanone	1	ND		10.0
74-88-4	Iodomethane	1	ND		5.00

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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Phone: 504.469.0333
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LELAP # 02006

Lab ID: 20502547

Description: 8260 VOAs Full List Water BLK **Project No.:** 2066873

Method: EPA 8260 **Batch:** 82479 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 16-Feb-07 **Analyzed:** 02/16/07 19:19 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
78-83-1	Isobutanol	1	ND		250.
98-82-8	Isopropylbenzene (Cumene)	1	ND		5.00
126-98-7	Methacrylonitrile	1	ND		100.
79-20-9	Methyl acetate	1	ND		10.0
75-09-2	Methylene chloride	1	ND	A11	5.00
80-62-6	Methyl methacrylate	1	ND		10.0
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0
1634-04-4	Methyl-tert-butyl ether	1	ND		5.00
107-12-0	Propionitrile	1	ND		20.0
100-42-5	Styrene	1	ND		5.00
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.00
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00
127-18-4	Tetrachloroethene	1	ND		5.00
108-88-3	Toluene	1	ND		5.00
71-55-6	1,1,1-Trichloroethane	1	ND		5.00
79-00-5	1,1,2-Trichloroethane	1	ND		5.00
79-01-6	Trichloroethene	1	ND		5.00
75-69-4	Trichlorofluoromethane	1	ND		5.00
96-18-4	1,2,3-Trichloropropane	1	ND		5.00
95-63-6	1,2,4-Trimethylbenzene	1	ND		5.00
108-67-8	1,3,5-Trimethylbenzene	1	ND		5.00
108-05-4	Vinyl acetate	1	ND		10.0
75-01-4	Vinyl chloride	1	ND		5.00
	m&p-Xylene	1	ND		5.00
95-47-6	o-Xylene	1	ND		5.00

61 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
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Phone: 504.469.0333
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LELAP # 02006

Lab ID: 20502805

Description: 8270 SVOAs Water **Project No.:** 2066873

Method: EPA 8270 **Batch:** 82377 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 19-Feb-07 **Analyzed:** 02/23/07 12:11 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
83-32-9	Acenaphthene	1	ND		10.0
208-96-8	Acenaphthylene	1	ND		10.0
98-86-2	Acetophenone	1	ND		10.0
120-12-7	Anthracene	1	ND		10.0
1912-24-9	Atrazine	1	ND		10.0
56-55-3	Benzo(a)anthracene	1	ND		10.0
205-99-2	Benzo(b)fluoranthene	1	ND		10.0
207-08-9	Benzo(k)fluoranthene	1	ND		10.0
191-24-2	Benzo(g,h,i)perylene	1	ND		10.0
50-32-8	Benzo(a)pyrene	1	ND		10.0
95-57-8	2-Chlorophenol	1	ND		10.0
218-01-9	Chrysene	1	ND		10.0
21725-46-2	Cyanazine	1	ND		10.0
53-70-3	Dibenz(a,h)anthracene	1	ND		10.0
132-64-9	Dibenzofuran	1	ND		10.0
120-83-2	2,4-Dichlorophenol	1	ND		10.0
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		10.0
206-44-0	Fluoranthene	1	ND		10.0
86-73-7	Fluorene	1	ND		10.0
193-39-5	Indeno(1,2,3-cd)pyrene	1	ND		10.0
91-57-6	2-Methylnaphthalene	1	ND		10.0
95-48-7	2-Methylphenol (o-Cresol)	1	ND		10.0
108-39-4	3-Methylphenol (m-Cresol)	1	ND	A7	10.0
106-44-5	4-Methylphenol (p-Cresol)	1	ND	A7	10.0
91-20-3	Naphthalene	1	ND		10.0
100-02-7	4-Nitrophenol	1	ND		10.0
87-86-5	Pentachlorophenol	1	ND		10.0
85-01-8	Phenanthrene	1	ND		10.0
129-00-0	Pyrene	1	ND		10.0
95-95-4	2,4,5-Trichlorophenol	1	ND		10.0
88-06-2	2,4,6-Trichlorophenol	1	ND		10.0

31 compound(s) reported

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Phone: 504.469.0333
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LELAP # 02006

Lab ID: 20502880

Description: 8260 VOAs Full List Low, BLK **Project No.:** 2066873

Method: EPA 8260 **Batch:** 82550 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 19-Feb-07 **Analyzed:** 02/19/07 12:19 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
67-64-1	Acetone	1	ND	A11	10.0
75-05-8	Acetonitrile	1	ND		100.
107-02-8	Acrolein	1	ND		20.0
107-13-1	Acrylonitrile	1	ND		20.0
107-05-1	Allyl chloride	1	ND		10.0
71-43-2	Benzene	1	ND		5.00
75-27-4	Bromodichloromethane	1	ND		5.00
75-25-2	Bromoform	1	ND		5.00
74-83-9	Bromomethane	1	ND		5.00
78-93-3	2-Butanone (MEK)	1	ND	A11	10.0
75-15-0	Carbon disulfide	1	ND		5.00
56-23-5	Carbon tetrachloride	1	ND		5.00
108-90-7	Chlorobenzene	1	ND		5.00
75-00-3	Chloroethane	1	ND		5.00
67-66-3	Chloroform	1	ND		5.00
74-87-3	Chloromethane	1	ND		5.00
126-99-8	Chloroprene	1	ND		5.00
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.00
124-48-1	Dibromochloromethane	1	ND		5.00
106-93-4	1,2-Dibromoethane (EDB)	1	ND		5.00
74-95-3	Dibromomethane	1	ND		5.00
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		5.00
75-71-8	Dichlorodifluoromethane	1	ND		5.00
75-34-3	1,1-Dichloroethane	1	ND		5.00
107-06-2	1,2-Dichloroethane	1	ND		5.00
75-35-4	1,1-Dichloroethene	1	ND		5.00
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00
78-87-5	1,2-Dichloropropane	1	ND		5.00
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		250.
100-41-4	Ethylbenzene	1	ND		5.00
97-63-2	Ethyl methacrylate	1	ND		10.0
591-78-6	2-Hexanone	1	ND		10.0
74-88-4	Iodomethane	1	ND		5.00
78-83-1	Isobutanol	1	ND		250.

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LELAP # 02006

Lab ID: 20502880

Description: 8260 VOAs Full List Low, BLK **Project No.:** 2066873

Method: EPA 8260 **Batch:** 82550 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 19-Feb-07 **Analyzed:** 02/19/07 12:19 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
126-98-7	Methacrylonitrile	1	ND		100.
75-09-2	Methylene chloride	1	ND	A11	5.00
80-62-6	Methyl methacrylate	1	ND		10.0
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0
107-12-0	Propionitrile	1	ND		20.0
100-42-5	Styrene	1	ND		5.00
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.00
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00
127-18-4	Tetrachloroethene	1	ND		5.00
108-88-3	Toluene	1	ND		5.00
71-55-6	1,1,1-Trichloroethane	1	ND		5.00
79-00-5	1,1,2-Trichloroethane	1	ND		5.00
79-01-6	Trichloroethene	1	ND		5.00
75-69-4	Trichlorofluoromethane	1	ND		5.00
96-18-4	1,2,3-Trichloropropane	1	ND		5.00
95-63-6	1,2,4-Trimethylbenzene	1	ND		5.00
108-67-8	1,3,5-Trimethylbenzene	1	ND		5.00
108-05-4	Vinyl acetate	1	ND		10.0
75-01-4	Vinyl chloride	1	ND		5.00
	m&p-Xylene	1	ND		5.00
95-47-6	o-Xylene	1	ND		5.00

57 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
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Lab ID: 20502884

Description: 8260 VOAs Full List Low, BLK **Project No.:** 2066873

Method: EPA 8260 **Batch:** 82551 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 23-Feb-07 **Analyzed:** 02/23/07 17:04 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
67-64-1	Acetone	1	ND	A11	10.0
75-05-8	Acetonitrile	1	ND		100.
107-02-8	Acrolein	1	ND		20.0
107-13-1	Acrylonitrile	1	ND		20.0
107-05-1	Allyl chloride	1	ND		10.0
71-43-2	Benzene	1	ND		5.00
75-27-4	Bromodichloromethane	1	ND		5.00
75-25-2	Bromoform	1	ND		5.00
74-83-9	Bromomethane	1	ND		5.00
78-93-3	2-Butanone (MEK)	1	ND	A11	10.0
75-15-0	Carbon disulfide	1	ND		5.00
56-23-5	Carbon tetrachloride	1	ND		5.00
108-90-7	Chlorobenzene	1	ND		5.00
75-00-3	Chloroethane	1	ND		5.00
67-66-3	Chloroform	1	ND		5.00
74-87-3	Chloromethane	1	ND		5.00
126-99-8	Chloroprene	1	ND		5.00
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.00
124-48-1	Dibromochloromethane	1	ND		5.00
106-93-4	1,2-Dibromoethane (EDB)	1	ND		5.00
74-95-3	Dibromomethane	1	ND		5.00
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		5.00
75-71-8	Dichlorodifluoromethane	1	ND		5.00
75-34-3	1,1-Dichloroethane	1	ND		5.00
107-06-2	1,2-Dichloroethane	1	ND		5.00
75-35-4	1,1-Dichloroethene	1	ND		5.00
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00
78-87-5	1,2-Dichloropropane	1	ND		5.00
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		250.
100-41-4	Ethylbenzene	1	ND		5.00
97-63-2	Ethyl methacrylate	1	ND		10.0
591-78-6	2-Hexanone	1	ND		10.0
74-88-4	Iodomethane	1	ND		5.00
78-83-1	Isobutanol	1	ND		250.

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LELAP # 02006

Lab ID: 20502884

Description: 8260 VOAs Full List Low, BLK **Project No.:** 2066873

Method: EPA 8260 **Batch:** 82551 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 23-Feb-07 **Analyzed:** 02/23/07 17:04 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
126-98-7	Methacrylonitrile	1	ND		100.
75-09-2	Methylene chloride	1	ND	A11	5.00
80-62-6	Methyl methacrylate	1	ND		10.0
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0
107-12-0	Propionitrile	1	ND		20.0
100-42-5	Styrene	1	ND		5.00
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.00
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00
127-18-4	Tetrachloroethene	1	ND		5.00
108-88-3	Toluene	1	ND		5.00
71-55-6	1,1,1-Trichloroethane	1	ND		5.00
79-00-5	1,1,2-Trichloroethane	1	ND		5.00
79-01-6	Trichloroethene	1	ND		5.00
75-69-4	Trichlorofluoromethane	1	ND		5.00
96-18-4	1,2,3-Trichloropropane	1	ND		5.00
95-63-6	1,2,4-Trimethylbenzene	1	ND		5.00
108-67-8	1,3,5-Trimethylbenzene	1	ND		5.00
108-05-4	Vinyl acetate	1	ND		10.0
75-01-4	Vinyl chloride	1	ND		5.00
	m&p-Xylene	1	ND		5.00
95-47-6	o-Xylene	1	ND		5.00

57 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
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Phone: 504.469.0333
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LELAP # 02006

Lab ID: 20502888

Description: 8260 VOAs Med Soil Full BLK **Project No.:** 2066873

Method: EPA 8260 **Batch:** 82552 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 19-Feb-07 **Analyzed:** 02/19/07 20:25 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
67-64-1	Acetone	1	ND	A11	500.
75-05-8	Acetonitrile	1	ND		5000
107-02-8	Acrolein	1	ND		1000
107-13-1	Acrylonitrile	1	ND		1000
107-05-1	Allyl chloride	1	ND		500.
71-43-2	Benzene	1	ND		250.
75-27-4	Bromodichloromethane	1	ND		250.
75-25-2	Bromoform	1	ND		250.
74-83-9	Bromomethane	1	ND		250.
78-93-3	2-Butanone (MEK)	1	ND	A11	500.
75-15-0	Carbon disulfide	1	ND		250.
56-23-5	Carbon tetrachloride	1	ND		250.
108-90-7	Chlorobenzene	1	ND		250.
75-00-3	Chloroethane	1	ND		250.
67-66-3	Chloroform	1	ND		250.
74-87-3	Chloromethane	1	ND		250.
126-99-8	Chloroprene	1	ND		250.
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		250.
124-48-1	Dibromochloromethane	1	ND		250.
106-93-4	1,2-Dibromoethane (EDB)	1	ND		250.
74-95-3	Dibromomethane	1	ND		250.
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		250.
75-71-8	Dichlorodifluoromethane	1	ND		250.
75-34-3	1,1-Dichloroethane	1	ND		250.
107-06-2	1,2-Dichloroethane	1	ND		250.
75-35-4	1,1-Dichloroethene	1	ND		250.
156-60-5	trans-1,2-Dichloroethene	1	ND		250.
78-87-5	1,2-Dichloropropane	1	ND		250.
10061-01-5	cis-1,3-Dichloropropene	1	ND		250.
10061-02-6	trans-1,3-Dichloropropene	1	ND		250.
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		12500
100-41-4	Ethylbenzene	1	ND		250.
97-63-2	Ethyl methacrylate	1	ND		500.
591-78-6	2-Hexanone	1	ND		500.
74-88-4	Iodomethane	1	ND		250.
78-83-1	Isobutanol	1	ND		12500

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ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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Phone: 504.469.0333
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LELAP # 02006

Lab ID: 20502888
Description: 8260 VOAs Med Soil Full BLK **Project No.:** 2066873
Method: EPA 8260 **Batch:** 82552 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 19-Feb-07 **Analyzed:** 02/19/07 20:25 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
126-98-7	Methacrylonitrile	1	ND		5000
75-09-2	Methylene chloride	1	ND	A11	250.
80-62-6	Methyl methacrylate	1	ND		500.
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		500.
107-12-0	Propionitrile	1	ND		1000
100-42-5	Styrene	1	ND		250.
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		250.
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		250.
127-18-4	Tetrachloroethene	1	ND		250.
108-88-3	Toluene	1	ND		250.
71-55-6	1,1,1-Trichloroethane	1	ND		250.
79-00-5	1,1,2-Trichloroethane	1	ND		250.
79-01-6	Trichloroethene	1	ND		250.
75-69-4	Trichlorofluoromethane	1	ND		250.
96-18-4	1,2,3-Trichloropropane	1	ND		250.
95-63-6	1,2,4-Trimethylbenzene	1	ND		250.
108-67-8	1,3,5-Trimethylbenzene	1	ND		250.
108-05-4	Vinyl acetate	1	ND		500.
75-01-4	Vinyl chloride	1	ND		250.
	m&p-Xylene	1	ND		250.
95-47-6	o-Xylene	1	ND		250.

57 compound(s) reported

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Lab ID: 20502954

Description: 8260 VOAs Full List Water BLK **Project No.:** 2066873

Method: EPA 8260 **Batch:** 82479 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 21-Feb-07 **Analyzed:** 02/21/07 10:54 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
67-64-1	Acetone	1	ND	A11	10.0
75-05-8	Acetonitrile	1	ND		100.
107-02-8	Acrolein	1	ND		20.0
107-13-1	Acrylonitrile	1	ND		20.0
107-05-1	Allyl chloride	1	ND		10.0
71-43-2	Benzene	1	ND		5.00
75-27-4	Bromodichloromethane	1	ND		5.00
75-25-2	Bromoform	1	ND		5.00
74-83-9	Bromomethane	1	ND		5.00
78-93-3	2-Butanone (MEK)	1	ND	A11	10.0
75-15-0	Carbon disulfide	1	ND		5.00
56-23-5	Carbon tetrachloride	1	ND		5.00
108-90-7	Chlorobenzene	1	ND		5.00
75-00-3	Chloroethane	1	ND		5.00
67-66-3	Chloroform	1	ND		5.00
74-87-3	Chloromethane	1	ND		5.00
126-99-8	Chloroprene	1	ND		5.00
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.00
124-48-1	Dibromochloromethane	1	ND		5.00
106-93-4	1,2-Dibromoethane (EDB)	1	ND		5.00
74-95-3	Dibromomethane	1	ND		5.00
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		5.00
75-71-8	Dichlorodifluoromethane	1	ND		5.00
75-34-3	1,1-Dichloroethane	1	ND		5.00
107-06-2	1,2-Dichloroethane	1	ND		5.00
75-35-4	1,1-Dichloroethene	1	ND		5.00
156-59-2	cis-1,2-Dichloroethene	1	ND		5.00
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00
78-87-5	1,2-Dichloropropane	1	ND		5.00
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		250.
100-41-4	Ethylbenzene	1	ND		5.00
97-63-2	Ethyl methacrylate	1	ND		10.0
591-78-6	2-Hexanone	1	ND		10.0
74-88-4	Iodomethane	1	ND		5.00

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DF denotes Dilution Factor.
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Lab ID: 20502954

Description: 8260 VOAs Full List Water BLK **Project No.:** 2066873

Method: EPA 8260 **Batch:** 82479 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 21-Feb-07 **Analyzed:** 02/21/07 10:54 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
78-83-1	Isobutanol	1	ND		250.
98-82-8	Isopropylbenzene (Cumene)	1	ND		5.00
126-98-7	Methacrylonitrile	1	ND		100.
79-20-9	Methyl acetate	1	ND		10.0
75-09-2	Methylene chloride	1	ND	A11	5.00
80-62-6	Methyl methacrylate	1	ND		10.0
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0
1634-04-4	Methyl-tert-butyl ether	1	ND		5.00
107-12-0	Propionitrile	1	ND		20.0
100-42-5	Styrene	1	ND		5.00
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.00
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00
127-18-4	Tetrachloroethene	1	ND		5.00
108-88-3	Toluene	1	ND		5.00
71-55-6	1,1,1-Trichloroethane	1	ND		5.00
79-00-5	1,1,2-Trichloroethane	1	ND		5.00
79-01-6	Trichloroethene	1	ND		5.00
75-69-4	Trichlorofluoromethane	1	ND		5.00
96-18-4	1,2,3-Trichloropropane	1	ND		5.00
95-63-6	1,2,4-Trimethylbenzene	1	ND		5.00
108-67-8	1,3,5-Trimethylbenzene	1	ND		5.00
108-05-4	Vinyl acetate	1	ND		10.0
75-01-4	Vinyl chloride	1	ND		5.00
	m&p-Xylene	1	ND		5.00
95-47-6	o-Xylene	1	ND		5.00

61 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
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LELAP # 02006

Lab ID: 20502976
Description: 8270 SVOAs Water **Project No.:** 2066873
Method: EPA 8270 **Batch:** 82564 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 21-Feb-07 **Analyzed:** 03/02/07 12:24 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
83-32-9	Acenaphthene	1	ND		10.0
208-96-8	Acenaphthylene	1	ND		10.0
98-86-2	Acetophenone	1	ND		10.0
120-12-7	Anthracene	1	ND		10.0
1912-24-9	Atrazine	1	ND		10.0
56-55-3	Benzo(a)anthracene	1	ND		10.0
205-99-2	Benzo(b)fluoranthene	1	ND		10.0
207-08-9	Benzo(k)fluoranthene	1	ND		10.0
65-85-0	Benzoic acid	1	ND		10.0
191-24-2	Benzo(g,h,i)perylene	1	ND		10.0
50-32-8	Benzo(a)pyrene	1	ND		10.0
100-51-6	Benzyl alcohol	1	ND		10.0
101-55-3	4-Bromophenylphenyl ether	1	ND		10.0
85-68-7	Butylbenzylphthalate	1	ND		10.0
86-74-8	Carbazole	1	ND		10.0
59-50-7	4-Chloro-3-methylphenol	1	ND		10.0
106-47-8	4-Chloroaniline	1	ND		10.0
111-91-1	bis(2-Chloroethoxy)methane	1	ND		10.0
111-44-4	bis(2-Chloroethyl) ether	1	ND		10.0
91-58-7	2-Chloronaphthalene	1	ND		10.0
95-57-8	2-Chlorophenol	1	ND		10.0
7005-72-3	4-Chlorophenylphenyl ether	1	ND		10.0
218-01-9	Chrysene	1	ND		10.0
21725-46-2	Cyanazine	1	ND		10.0
53-70-3	Dibenz(a,h)anthracene	1	ND		10.0
132-64-9	Dibenzofuran	1	ND		10.0
95-50-1	1,2-Dichlorobenzene	1	ND		10.0
541-73-1	1,3-Dichlorobenzene	1	ND		10.0
106-46-7	1,4-Dichlorobenzene	1	ND		10.0
91-94-1	3,3'-Dichlorobenzidine	1	ND		10.0
120-83-2	2,4-Dichlorophenol	1	ND		10.0
84-66-2	Diethylphthalate	1	ND		10.0
105-67-9	2,4-Dimethylphenol	1	ND		10.0
131-11-3	Dimethylphthalate	1	ND		10.0
84-74-2	Di-n-butylphthalate	1	ND		10.0
534-52-1	4,6-Dinitro-2-methylphenol	1	ND		10.0

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LELAP # 02006

Lab ID: 20502976
Description: 8270 SVOAs Water **Project No.:** 2066873
Method: EPA 8270 **Batch:** 82564 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 21-Feb-07 **Analyzed:** 03/02/07 12:24 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
51-28-5	2,4-Dinitrophenol	1	ND		10.0
121-14-2	2,4-Dinitrotoluene	1	ND		10.0
606-20-2	2,6-Dinitrotoluene	1	ND		10.0
117-84-0	Di-n-octylphthalate	1	ND		10.0
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		10.0
206-44-0	Fluoranthene	1	ND		10.0
86-73-7	Fluorene	1	ND		10.0
87-68-3	Hexachloro-1,3-butadiene	1	ND		10.0
118-74-1	Hexachlorobenzene	1	ND		10.0
77-47-4	Hexachlorocyclopentadiene	1	ND		10.0
67-72-1	Hexachloroethane	1	ND		10.0
193-39-5	Indeno(1,2,3-cd)pyrene	1	ND		10.0
78-59-1	Isophorone	1	ND		10.0
91-57-6	2-Methylnaphthalene	1	ND		10.0
95-48-7	2-Methylphenol (o-Cresol)	1	ND		10.0
106-44-5	4-Methylphenol (p-Cresol)	1	ND	A7	10.0
91-20-3	Naphthalene	1	ND		10.0
88-74-4	2-Nitroaniline	1	ND		10.0
99-09-2	3-Nitroaniline	1	ND		10.0
100-01-6	4-Nitroaniline	1	ND		10.0
98-95-3	Nitrobenzene	1	ND		10.0
88-75-5	2-Nitrophenol	1	ND		10.0
100-02-7	4-Nitrophenol	1	ND		10.0
621-64-7	N-Nitroso-di-n-propylamine	1	ND		10.0
86-30-6	N-Nitrosodiphenylamine	1	ND	A10	10.0
108-60-1	2,2'-Oxybis(1-chloropropane)	1	ND		10.0
87-86-5	Pentachlorophenol	1	ND		10.0
85-01-8	Phenanthrene	1	ND		10.0
108-95-2	Phenol	1	ND		10.0
129-00-0	Pyrene	1	ND		10.0
120-82-1	1,2,4-Trichlorobenzene	1	ND		10.0
95-95-4	2,4,5-Trichlorophenol	1	ND		10.0
88-06-2	2,4,6-Trichlorophenol	1	ND		10.0

69 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
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Lab ID: 20503143

Description: 8260 VOAs Full List Low, BLK **Project No.:** 2066873

Method: EPA 8260 **Batch:** 82609 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 23-Feb-07 **Analyzed:** 02/23/07 13:45 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
67-64-1	Acetone	1	ND	A11	10.0
75-05-8	Acetonitrile	1	ND		100.
107-02-8	Acrolein	1	ND		20.0
107-13-1	Acrylonitrile	1	ND		20.0
107-05-1	Allyl chloride	1	ND		10.0
71-43-2	Benzene	1	ND		5.00
75-27-4	Bromodichloromethane	1	ND		5.00
75-25-2	Bromoform	1	ND		5.00
74-83-9	Bromomethane	1	ND		5.00
78-93-3	2-Butanone (MEK)	1	ND	A11	10.0
75-15-0	Carbon disulfide	1	ND		5.00
56-23-5	Carbon tetrachloride	1	ND		5.00
108-90-7	Chlorobenzene	1	ND		5.00
75-00-3	Chloroethane	1	ND		5.00
67-66-3	Chloroform	1	ND		5.00
74-87-3	Chloromethane	1	ND		5.00
126-99-8	Chloroprene	1	ND		5.00
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.00
124-48-1	Dibromochloromethane	1	ND		5.00
106-93-4	1,2-Dibromoethane (EDB)	1	ND		5.00
74-95-3	Dibromomethane	1	ND		5.00
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		5.00
75-71-8	Dichlorodifluoromethane	1	ND		5.00
75-34-3	1,1-Dichloroethane	1	ND		5.00
107-06-2	1,2-Dichloroethane	1	ND		5.00
75-35-4	1,1-Dichloroethene	1	ND		5.00
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00
78-87-5	1,2-Dichloropropane	1	ND		5.00
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		250.
100-41-4	Ethylbenzene	1	ND		5.00
97-63-2	Ethyl methacrylate	1	ND		10.0
591-78-6	2-Hexanone	1	ND		10.0
74-88-4	Iodomethane	1	ND		5.00
78-83-1	Isobutanol	1	ND		250.

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
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LELAP # 02006

Lab ID: 20503143

Description: 8260 VOAs Full List Low, BLK **Project No.:** 2066873

Method: EPA 8260 **Batch:** 82609 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 23-Feb-07 **Analyzed:** 02/23/07 13:45 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
126-98-7	Methacrylonitrile	1	ND		100.
75-09-2	Methylene chloride	1	ND	A11	5.00
80-62-6	Methyl methacrylate	1	ND		10.0
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0
107-12-0	Propionitrile	1	ND		20.0
100-42-5	Styrene	1	ND		5.00
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.00
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00
127-18-4	Tetrachloroethene	1	ND		5.00
108-88-3	Toluene	1	ND		5.00
71-55-6	1,1,1-Trichloroethane	1	ND		5.00
79-00-5	1,1,2-Trichloroethane	1	ND		5.00
79-01-6	Trichloroethene	1	ND		5.00
75-69-4	Trichlorofluoromethane	1	ND		5.00
96-18-4	1,2,3-Trichloropropane	1	ND		5.00
95-63-6	1,2,4-Trimethylbenzene	1	ND		5.00
108-67-8	1,3,5-Trimethylbenzene	1	ND		5.00
108-05-4	Vinyl acetate	1	ND		10.0
75-01-4	Vinyl chloride	1	ND		5.00
	m&p-Xylene	1	ND		5.00
95-47-6	o-Xylene	1	ND		5.00

57 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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Phone: 504.469.0333
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LELAP # 02006

Lab ID: 20503812

Description: 8270 SVOAs Low Soil **Project No.:** 2066873

Method: EPA 8270 **Batch:** 82568 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 26-Feb-07 **Analyzed:** 02/27/07 15:38 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
83-32-9	Acenaphthene	1	ND		333.
208-96-8	Acenaphthylene	1	ND		333.
98-86-2	Acetophenone	1	ND		333.
62-53-3	Aniline	1	ND		333.
120-12-7	Anthracene	1	ND		333.
1912-24-9	Atrazine	1	ND		333.
56-55-3	Benzo(a)anthracene	1	ND		333.
205-99-2	Benzo(b)fluoranthene	1	ND		333.
207-08-9	Benzo(k)fluoranthene	1	ND		333.
65-85-0	Benzoic acid	1	ND		833.
191-24-2	Benzo(g,h,i)perylene	1	ND		333.
50-32-8	Benzo(a)pyrene	1	ND		333.
100-51-6	Benzyl alcohol	1	ND		333.
92-52-4	Biphenyl (Diphenyl)	1	ND		333.
101-55-3	4-Bromophenylphenyl ether	1	ND		333.
85-68-7	Butylbenzylphthalate	1	ND		333.
86-74-8	Carbazole	1	ND		333.
59-50-7	4-Chloro-3-methylphenol	1	ND		333.
106-47-8	4-Chloroaniline	1	ND		333.
111-91-1	bis(2-Chloroethoxy)methane	1	ND		333.
111-44-4	bis(2-Chloroethyl) ether	1	ND		333.
91-58-7	2-Chloronaphthalene	1	ND		333.
95-57-8	2-Chlorophenol	1	ND		333.
7005-72-3	4-Chlorophenylphenyl ether	1	ND		333.
218-01-9	Chrysene	1	ND		333.
21725-46-2	Cyanazine	1	ND		333.
53-70-3	Dibenz(a,h)anthracene	1	ND		333.
132-64-9	Dibenzofuran	1	ND		333.
95-50-1	1,2-Dichlorobenzene	1	ND		333.
541-73-1	1,3-Dichlorobenzene	1	ND		333.
106-46-7	1,4-Dichlorobenzene	1	ND		333.
91-94-1	3,3'-Dichlorobenzidine	1	ND		667.
120-83-2	2,4-Dichlorophenol	1	ND		333.
84-66-2	Diethylphthalate	1	ND		333.
57-97-6	7,12-Dimethylbenz(a)anthracene	1	ND		333.
105-67-9	2,4-Dimethylphenol	1	ND		333.

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Lab ID: 20503812
Description: 8270 SVOAs Low Soil **Project No.:** 2066873
Method: EPA 8270 **Batch:** 82568 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 26-Feb-07 **Analyzed:** 02/27/07 15:38 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
131-11-3	Dimethylphthalate	1	ND		333.
84-74-2	Di-n-butylphthalate	1	ND		333.
534-52-1	4,6-Dinitro-2-methylphenol	1	ND		333.
99-65-0	1,3-Dinitrobenzene	1	ND		333.
51-28-5	2,4-Dinitrophenol	1	ND		333.
121-14-2	2,4-Dinitrotoluene	1	ND		333.
606-20-2	2,6-Dinitrotoluene	1	ND		333.
117-84-0	Di-n-octylphthalate	1	ND		333.
88-85-7	Dinoseb	1	ND		333.
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		333.
206-44-0	Fluoranthene	1	ND		333.
86-73-7	Fluorene	1	ND		333.
87-68-3	Hexachloro-1,3-butadiene	1	ND		333.
118-74-1	Hexachlorobenzene	1	ND		333.
77-47-4	Hexachlorocyclopentadiene	1	ND		333.
67-72-1	Hexachloroethane	1	ND		333.
193-39-5	Indeno(1,2,3-cd)pyrene	1	ND		333.
78-59-1	Isophorone	1	ND		333.
90-12-0	1-Methylnaphthalene	1	ND		333.
91-57-6	2-Methylnaphthalene	1	ND		333.
95-48-7	2-Methylphenol (o-Cresol)	1	ND		333.
106-44-5	4-Methylphenol (p-Cresol)	1	ND	A7	333.
91-20-3	Naphthalene	1	ND		333.
88-74-4	2-Nitroaniline	1	ND		333.
99-09-2	3-Nitroaniline	1	ND		333.
100-01-6	4-Nitroaniline	1	ND		333.
98-95-3	Nitrobenzene	1	ND		333.
88-75-5	2-Nitrophenol	1	ND		333.
100-02-7	4-Nitrophenol	1	ND		333.
621-64-7	N-Nitroso-di-n-propylamine	1	ND		333.
86-30-6	N-Nitrosodiphenylamine	1	ND	A10	333.
108-60-1	2,2'-Oxybis(1-chloropropane)	1	ND		333.
87-86-5	Pentachlorophenol	1	ND		333.
85-01-8	Phenanthrene	1	ND		333.
108-95-2	Phenol	1	ND		333.
129-00-0	Pyrene	1	ND		333.

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
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Lab ID: 20503812

Description: 8270 SVOAs Low Soil **Project No.:** 2066873

Method: EPA 8270 **Batch:** 82568 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 26-Feb-07 **Analyzed:** 02/27/07 15:38 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
95-94-3	1,2,4,5-Tetrachlorobenzene	1	ND		333.
58-90-2	2,3,4,6-Tetrachlorophenol	1	ND		333.
120-82-1	1,2,4-Trichlorobenzene	1	ND		333.
95-95-4	2,4,5-Trichlorophenol	1	ND		333.
88-06-2	2,4,6-Trichlorophenol	1	ND		333.

77 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
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Lab ID: 20503820
Description: 8270 SVOAs Low Soil **Project No.:** 2066873
Method: EPA 8270 **Batch:** 82735 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 27-Feb-07 **Analyzed:** 03/08/07 15:21 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
98-86-2	Acetophenone	1	ND		333.
1912-24-9	Atrazine	1	ND		333.
21725-46-2	Cyanazine	1	ND		333.
117-81-7	bis(2-Ethylhexyl)phthalate	1	57.0	J	333.
100-02-7	4-Nitrophenol	1	ND		333.
87-86-5	Pentachlorophenol	1	ND		333.

6 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Lab ID: 20504479
Description: 8270 SVOAs Low Soil **Project No.:** 2066873
Method: EPA 8270 **Batch:** 82863 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 28-Feb-07 **Analyzed:** 03/03/07 19:10 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
83-32-9	Acenaphthene	1	ND		333.
208-96-8	Acenaphthylene	1	ND		333.
98-86-2	Acetophenone	1	ND		333.
62-53-3	Aniline	1	ND		333.
120-12-7	Anthracene	1	ND		333.
1912-24-9	Atrazine	1	ND		333.
56-55-3	Benzo(a)anthracene	1	ND		333.
205-99-2	Benzo(b)fluoranthene	1	ND		333.
207-08-9	Benzo(k)fluoranthene	1	ND		333.
65-85-0	Benzoic acid	1	ND		833.
191-24-2	Benzo(g,h,i)perylene	1	ND		333.
50-32-8	Benzo(a)pyrene	1	ND		333.
100-51-6	Benzyl alcohol	1	ND		333.
92-52-4	Biphenyl (Diphenyl)	1	ND		333.
101-55-3	4-Bromophenylphenyl ether	1	ND		333.
85-68-7	Butylbenzylphthalate	1	ND		333.
86-74-8	Carbazole	1	ND		333.
59-50-7	4-Chloro-3-methylphenol	1	ND		333.
106-47-8	4-Chloroaniline	1	ND		333.
111-91-1	bis(2-Chloroethoxy)methane	1	ND		333.
111-44-4	bis(2-Chloroethyl) ether	1	ND		333.
91-58-7	2-Chloronaphthalene	1	ND		333.
95-57-8	2-Chlorophenol	1	ND		333.
7005-72-3	4-Chlorophenylphenyl ether	1	ND		333.
218-01-9	Chrysene	1	ND		333.
21725-46-2	Cyanazine	1	ND		333.
53-70-3	Dibenz(a,h)anthracene	1	ND		333.
132-64-9	Dibenzofuran	1	ND		333.
95-50-1	1,2-Dichlorobenzene	1	ND		333.
541-73-1	1,3-Dichlorobenzene	1	ND		333.
106-46-7	1,4-Dichlorobenzene	1	ND		333.
91-94-1	3,3'-Dichlorobenzidine	1	ND		667.
120-83-2	2,4-Dichlorophenol	1	ND		333.
84-66-2	Diethylphthalate	1	ND		333.
105-67-9	2,4-Dimethylphenol	1	ND		333.
131-11-3	Dimethylphthalate	1	ND		333.

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Lab ID: 20504479
Description: 8270 SVOAs Low Soil **Project No.:** 2066873
Method: EPA 8270 **Batch:** 82863 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 28-Feb-07 **Analyzed:** 03/03/07 19:10 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
84-74-2	Di-n-butylphthalate	1	ND		333.
534-52-1	4,6-Dinitro-2-methylphenol	1	ND		333.
99-65-0	1,3-Dinitrobenzene	1	ND		333.
51-28-5	2,4-Dinitrophenol	1	ND		333.
121-14-2	2,4-Dinitrotoluene	1	ND		333.
606-20-2	2,6-Dinitrotoluene	1	ND		333.
117-84-0	Di-n-octylphthalate	1	ND		333.
88-85-7	Dinoseb	1	ND		333.
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		333.
206-44-0	Fluoranthene	1	ND		333.
86-73-7	Fluorene	1	ND		333.
87-68-3	Hexachloro-1,3-butadiene	1	ND		333.
118-74-1	Hexachlorobenzene	1	ND		333.
77-47-4	Hexachlorocyclopentadiene	1	ND		333.
67-72-1	Hexachloroethane	1	ND		333.
193-39-5	Indeno(1,2,3-cd)pyrene	1	ND		333.
78-59-1	Isophorone	1	ND		333.
90-12-0	1-Methylnaphthalene	1	ND		333.
91-57-6	2-Methylnaphthalene	1	ND		333.
95-48-7	2-Methylphenol (o-Cresol)	1	ND		333.
106-44-5	4-Methylphenol (p-Cresol)	1	ND	A7	333.
91-20-3	Naphthalene	1	ND		333.
88-74-4	2-Nitroaniline	1	ND		333.
99-09-2	3-Nitroaniline	1	ND		333.
100-01-6	4-Nitroaniline	1	ND		333.
98-95-3	Nitrobenzene	1	ND		333.
88-75-5	2-Nitrophenol	1	ND		333.
100-02-7	4-Nitrophenol	1	ND		333.
621-64-7	N-Nitroso-di-n-propylamine	1	ND		333.
86-30-6	N-Nitrosodiphenylamine	1	ND	A10	333.
108-60-1	2,2'-Oxybis(1-chloropropane)	1	ND		333.
87-86-5	Pentachlorophenol	1	ND		333.
85-01-8	Phenanthrene	1	ND		333.
108-95-2	Phenol	1	ND		333.
129-00-0	Pyrene	1	ND		333.
95-94-3	1,2,4,5-Tetrachlorobenzene	1	ND		333.

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Lab ID: 20504479
Description: 8270 SVOAs Low Soil **Project No.:** 2066873
Method: EPA 8270 **Batch:** 82863 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 28-Feb-07 **Analyzed:** 03/03/07 19:10 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
58-90-2	2,3,4,6-Tetrachlorophenol	1	ND		333.
120-82-1	1,2,4-Trichlorobenzene	1	ND		333.
95-95-4	2,4,5-Trichlorophenol	1	ND		333.
88-06-2	2,4,6-Trichlorophenol	1	ND		333.

76 compound(s) reported

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ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
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Lab ID: 20505593
Description: 8270 SVOAs Low Soil **Project No.:** 2066873
Method: EPA 8270 **Batch:** 83084 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 06-Mar-07 **Analyzed:** 03/07/07 17:42 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
83-32-9	Acenaphthene	1	ND		333.
208-96-8	Acenaphthylene	1	ND		333.
98-86-2	Acetophenone	1	ND		333.
62-53-3	Aniline	1	ND		333.
120-12-7	Anthracene	1	ND		333.
1912-24-9	Atrazine	1	ND		333.
56-55-3	Benzo(a)anthracene	1	ND		333.
205-99-2	Benzo(b)fluoranthene	1	ND		333.
207-08-9	Benzo(k)fluoranthene	1	ND		333.
65-85-0	Benzoic acid	1	ND		833.
191-24-2	Benzo(g,h,i)perylene	1	ND		333.
50-32-8	Benzo(a)pyrene	1	ND		333.
100-51-6	Benzyl alcohol	1	ND		333.
92-52-4	Biphenyl (Diphenyl)	1	ND		333.
101-55-3	4-Bromophenylphenyl ether	1	ND		333.
85-68-7	Butylbenzylphthalate	1	ND		333.
86-74-8	Carbazole	1	ND		333.
59-50-7	4-Chloro-3-methylphenol	1	ND		333.
106-47-8	4-Chloroaniline	1	ND		333.
111-91-1	bis(2-Chloroethoxy)methane	1	ND		333.
111-44-4	bis(2-Chloroethyl) ether	1	ND		333.
91-58-7	2-Chloronaphthalene	1	ND		333.
95-57-8	2-Chlorophenol	1	ND		333.
7005-72-3	4-Chlorophenylphenyl ether	1	ND		333.
218-01-9	Chrysene	1	ND		333.
21725-46-2	Cyanazine	1	ND		333.
53-70-3	Dibenz(a,h)anthracene	1	ND		333.
132-64-9	Dibenzofuran	1	ND		333.
95-50-1	1,2-Dichlorobenzene	1	ND		333.
541-73-1	1,3-Dichlorobenzene	1	ND		333.
106-46-7	1,4-Dichlorobenzene	1	ND		333.
91-94-1	3,3'-Dichlorobenzidine	1	ND		667.
120-83-2	2,4-Dichlorophenol	1	ND		333.
84-66-2	Diethylphthalate	1	ND		333.
105-67-9	2,4-Dimethylphenol	1	ND		333.
131-11-3	Dimethylphthalate	1	ND		333.

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ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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Fax: 504.469.0555
LELAP # 02006

Lab ID: 20505593
Description: 8270 SVOAs Low Soil **Project No.:** 2066873
Method: EPA 8270 **Batch:** 83084 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 06-Mar-07 **Analyzed:** 03/07/07 17:42 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
84-74-2	Di-n-butylphthalate	1	ND		333.
534-52-1	4,6-Dinitro-2-methylphenol	1	ND		333.
99-65-0	1,3-Dinitrobenzene	1	ND		333.
51-28-5	2,4-Dinitrophenol	1	ND		333.
121-14-2	2,4-Dinitrotoluene	1	ND		333.
606-20-2	2,6-Dinitrotoluene	1	ND		333.
117-84-0	Di-n-octylphthalate	1	ND		333.
88-85-7	Dinoseb	1	ND		333.
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		333.
206-44-0	Fluoranthene	1	ND		333.
86-73-7	Fluorene	1	ND		333.
87-68-3	Hexachloro-1,3-butadiene	1	ND		333.
118-74-1	Hexachlorobenzene	1	ND		333.
77-47-4	Hexachlorocyclopentadiene	1	ND		333.
67-72-1	Hexachloroethane	1	ND		333.
193-39-5	Indeno(1,2,3-cd)pyrene	1	ND		333.
78-59-1	Isophorone	1	ND		333.
90-12-0	1-Methylnaphthalene	1	ND		333.
91-57-6	2-Methylnaphthalene	1	ND		333.
95-48-7	2-Methylphenol (o-Cresol)	1	ND		333.
106-44-5	4-Methylphenol (p-Cresol)	1	ND	A7	333.
91-20-3	Naphthalene	1	ND		333.
88-74-4	2-Nitroaniline	1	ND		333.
99-09-2	3-Nitroaniline	1	ND		333.
100-01-6	4-Nitroaniline	1	ND		333.
98-95-3	Nitrobenzene	1	ND		333.
88-75-5	2-Nitrophenol	1	ND		333.
100-02-7	4-Nitrophenol	1	ND		333.
621-64-7	N-Nitroso-di-n-propylamine	1	ND		333.
86-30-6	N-Nitrosodiphenylamine	1	ND	A10	333.
108-60-1	2,2'-Oxybis(1-chloropropane)	1	ND		333.
87-86-5	Pentachlorophenol	1	ND		333.
85-01-8	Phenanthrene	1	ND		333.
108-95-2	Phenol	1	ND		333.
129-00-0	Pyrene	1	ND		333.
95-94-3	1,2,4,5-Tetrachlorobenzene	1	ND		333.

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Lab ID: 20505593

Description: 8270 SVOAs Low Soil **Project No.:** 2066873

Method: EPA 8270 **Batch:** 83084 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 06-Mar-07 **Analyzed:** 03/07/07 17:42 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
58-90-2	2,3,4,6-Tetrachlorophenol	1	ND		333.
120-82-1	1,2,4-Trichlorobenzene	1	ND		333.
95-95-4	2,4,5-Trichlorophenol	1	ND		333.
88-06-2	2,4,6-Trichlorophenol	1	ND		333.

76 compound(s) reported

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LELAP # 02006

Method: EPA 8151 **Project:** 2066873 **LCS:** 20502804 2/28/2007 1:12:00 AM

Batch: 82528 **MS:**

Units: ug/L **Original for MS:**

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Dinoseb	5	1.222		24										10 - 146	-		

1 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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LELAP # 02006

Method: EPA 8151 **Project:** 2066873 **LCS:** 20502975 2/28/2007 8:33:00 AM

Batch: 82528 **MS:** 20503327 3/2/2007 4:12:00 PM

Units: ug/L **Original for MS:** 20503122 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Dinoseb	5	0.804		16			5	0.02	13.94	3.696	278 *	74	116 *	10 - 146	10 - 151	20	Q1

1 compound(s) reported

* denotes recovery outside of QC limits.
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(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Method: EPA 8151 **Project:** 2066873 **LCS:** 20503817 3/8/2007 8:00:00 PM

Batch: 82734 **MS:** 20503818 3/15/2007 4:02:00 PM

Units: ug/kg **Original for MS:** 20502330 Project Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Dinoseb	166.7	210.9		127			189.5	14.63	368.4	156	187	75	81 *	10 - 188	10 - 189	20	

1 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Method: EPA 8151 **Project:** 2066873 **LCS:** 20504044 3/14/2007 10:20:00 PM

Batch: 82795 **MS:** 20504045 3/14/2007 11:14:00 PM

Units: ug/kg **Original for MS:** 20502335 Client Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Dinoseb	166.7	13.53		8 *			218.2	0.00	51.28	111.9	24	51	74 *	10 - 188	10 - 189	20	

1 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Method: EPA 8151 **Project:** 2066873 **LCS:** 20504421 3/16/2007 7:46:00 PM

Batch: 82846 **MS:** 20504422 3/17/2007 5:47:00 AM

Units: ug/kg **Original for MS:** 20502391 Project Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Dinoseb	166.7	182.8		110			196.4	778.40	938.6	669.2	82	0 *	34 *	10 - 188	10 - 189	20	

1 compound(s) reported

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MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Method: EPA 8151 **Project:** 2066873 **LCS:** 20507845 3/19/2007 10:14:00 PM

Batch: 83529 **MS:**

Units: ug/kg **Original for MS:**

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Dinoseb	166.7	249.1		149										10 - 188	-		

1 compound(s) reported

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(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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LELAP # 02006

Report: 2066873 **Batch: 82271**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20501438	BLANK	64	65	58	57				
20501439	LCS	62	62	59	60				
20501440	MS	70	70	67	76				
20501441	MSD	82	81	64	66				
20502397	Sample	60	61	63	61				
20502398	Sample	60	62	63	60				
20502809	BLANK	55	56	57	54				
20502810	LCS	59	61	56	53				
	QC limits:	10-157	10-157	18-171	18-171				

Sur 1: Decachlorobiphenyl (Conf)(S)
Sur 2: Decachlorobiphenyl (S)
Sur 3: Tetrachloro-m-xylene (Conf)(S)
Sur 4: Tetrachloro-m-xylene (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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Report: 2066873 **Batch: 82528**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20502397	Sample	115	127						
20502398	Sample	124	118						
20502803	BLANK	98	127						
20502804	LCS	70	59						
20502974	BLANK	96	98						
20502975	LCS	109	119						
20503122	OQS	97	92						
20503149	BLANK	122	118						
20503150	LCS	125	124						
20503327	MS	125	122						
20503328	MSD	114	110						
	QC limits:	10-181	10-181						

Sur 1: 2,4-DCPA (Conf)(S)
Sur 2: 2,4-DCPA (S)

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Report: 2066873 **Batch: 82701**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20502312	Sample	63	43	35	33				
20502313	Sample	51	55	38	38				
20502314	Sample	73	59	101	85				
20502315	Sample	67	68	54	44				
20502316	Sample	62	58	48	50				
20502317	Sample	80	67	75	68				
20502318	Sample	68	62	44	45				
20502319	Sample	62	54	56	53				
20502320	Sample	58	59	61	58				
20502321	Sample	82	82	42	43				
20502322	Sample	69	62	53	52				
20502323	Sample	57	58	48	46				
20502324	Sample	61	53	45	43				
20502325	Sample	114	121	70	69				
20502329	Sample	143	48	39	30				
20502330	OQS	70	48	57	42				
20502331	Sample G1	198 *	108	61	62				
20502332	Sample G1	183 *	82	42	44				
20502333	Sample	128	64	58	61				
20502334	Sample	73	45	34	32				
20503565	BLANK	98	97	82	85				
20503566	LCS	81	80	67	68				
20503567	MS	70	46	56	39				
20503568	MSD	70	73	69	62				
QC limits:		15-172	15-172	10-151	10-151				

Sur 1: Decachlorobiphenyl (Conf)(S)
Sur 2: Decachlorobiphenyl (S)
Sur 3: Tetrachloro-m-xylene (Conf)(S)
Sur 4: Tetrachloro-m-xylene (S)

*** denotes surrogate recovery outside of QC limits.**
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
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Report: 2066873 **Batch: 82734**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20502312	Sample	29	10						
20502313	Sample	35	44						
20502314	Sample	20	23						
20502315	Sample	13	15						
20502316	Sample	20	23						
20502317	Sample	84	79						
20502318	Sample	70	77						
20502319	Sample	37	40						
20502320	Sample	22	27						
20502321	Sample	39	16						
20502322	Sample	16	24						
20502323	Sample N	5 *	5 *						
20502324	Sample D2	34	111						
20502325	Sample	17	26						
20502329	Sample D2	18	80						
20502330	OQS	54	51						
20502331	Sample	17	57						
20502332	Sample	19	24						
20502333	Sample	14	13						
20502334	Sample N	5 *	5 *						
20503816	BLANK	88	86						
20503817	LCS	104	100						
20503818	MS	61	62						
20503819	MSD	47	44						
	QC limits:	10-191	10-191						

Sur 1: 2,4-DCPA (Conf)(S)
Sur 2: 2,4-DCPA (S)

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A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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Report: 2066873 **Batch: 82794**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20502335	Sample	68	53	50	49				
20502338	Sample	74	66	25	26				
20502343	Sample	79	67	38	35				
20502344	Sample	75	32	37	37				
20502383	Sample	47	41	30	28				
20502384	Sample	41	42	13	13				
20502385	Sample D1	0 D	17	0 D	11				
20502386	Sample	60	84	47	45				
20502387	Sample	58	42	23	24				
20502388	Sample	71	71	48	46				
20502389	Sample	80	59	66	64				
20502390	Sample	56	54	48	46				
20502391	OQS D1	76	118	60	37				
20502392	Sample	77	71	54	53				
20504039	BLANK	88	74	48	48				
20504040	LCS	89	74	52	47				
20504041	MS	66	88	44	45				
20504042	MSD	82	108	49	48				
QC limits:		15-172	15-172	10-151	10-151				

Sur 1: Decachlorobiphenyl (Conf)(S)
Sur 2: Decachlorobiphenyl (S)
Sur 3: Tetrachloro-m-xylene (Conf)(S)
Sur 4: Tetrachloro-m-xylene (S)

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Pace Analytical®
New Orleans Laboratory

Report of Batch Surrogate Recovery

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Report: 2066873 **Batch: 82795**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20502335	Sample	36	37						
20504043	BLANK	50	53						
20504044	LCS	43	47						
20504045	MS	111	114						
20504046	MSD	45	48						
	QC limits:	10-191	10-191						

Sur 1: 2,4-DCPA (Conf)(S)
Sur 2: 2,4-DCPA (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

3/21/2007 16:46:26

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Phone: 504.469.0333
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LELAP # 02006

Report: 2066873 **Batch: 82846**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20502338	Sample N	3 *	2 *						
20502343	Sample D1	0 D	0 D						
20502344	Sample D1	0 D	0 D						
20502383	Sample G1	11	9 *						
20502384	Sample	16	15						
20502385	Sample N	8 *	7 *						
20502386	Sample D2	22	0 D						
20502387	Sample D2	12	0 D						
20502388	Sample D2	11	17						
20502389	Sample D2	0 D	0 D						
20502390	Sample D2	0 D	0 D						
20502391	OQS D2	0 D	0 D						
20502392	Sample	23	20						
20504420	BLANK	22	23						
20504421	LCS	108	111						
20504422	MS D2,Q	0 D	0 D						
20504423	MSD D2,Q	0 D	0 D						
	QC limits:	10-191	10-191						

Sur 1: 2,4-DCPA (Conf)(S)
Sur 2: 2,4-DCPA (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Report: 2066873 **Batch: 83529**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20502323	Sample N	0 *	0 *						
20502334	Sample N	1 *	1 *						
20502338	Sample N	4 *	3 *						
20502385	Sample N	41	31						
20507844	BLANK	146	155						
20507845	LCS	109	107						
	QC limits:	10-191	10-191						

Sur 1: 2,4-DCPA (Conf)(S)
Sur 2: 2,4-DCPA (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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Report of Method Blank

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1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20502803

Description: 8151 Herbs Water **Project No.:** 2066873

Method: EPA 8151 **Batch:** 82528 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 19-Feb-07 **Analyzed:** 02/28/07 00:45 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
94-75-7	2,4-D	1	ND		2.00
127-20-8	Dalapon	1	ND		10.0
94-82-6	2,4-DB	1	ND		5.00
1918-00-9	Dicamba	1	ND		0.500
120-36-5	Dichloroprop	1	ND		2.00
88-85-7	Dinoseb	1	ND		2.00
94-74-6	MCPA	1	ND		250.
7085-19-0	MCPP	1	ND		250.
93-76-5	2,4,5-T	1	ND		0.500
93-72-1	2,4,5-TP (Silvex)	1	ND		0.500

10 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Phone: 504.469.0333
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LELAP # 02006

Lab ID: 20502809
Description: 8081 Pests Water **Project No.:** 2066873
Method: EPA 8081 **Batch:** 82271 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 19-Feb-07 **Analyzed:** 03/05/07 17:59 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
8001-35-2	Toxaphene	1	ND		2.00

1 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20502974
Description: 8151 Herbs Water **Project No.:** 2066873
Method: EPA 8151 **Batch:** 82528 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 21-Feb-07 **Analyzed:** 02/28/07 07:10 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
94-75-7	2,4-D	1	ND		2.00
127-20-8	Dalapon	1	ND		10.0
94-82-6	2,4-DB	1	ND		5.00
1918-00-9	Dicamba	1	ND		0.500
120-36-5	Dichloroprop	1	ND		2.00
88-85-7	Dinoseb	1	ND		2.00
94-74-6	MCPA	1	ND		250.
7085-19-0	MCPP	1	ND		250.
93-76-5	2,4,5-T	1	0.901		0.500
93-72-1	2,4,5-TP (Silvex)	1	ND		0.500

10 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20503565
Description: 8081 Pests Low Soil **Project No.:** 2066873
Method: EPA 8081 **Batch:** 82701 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 23-Feb-07 **Analyzed:** 02/27/07 23:12 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
8001-35-2	Toxaphene	1	ND		66.7

1 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Phone: 504.469.0333
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LELAP # 02006

Lab ID: 20503816
Description: 8151 Herbs Low Soil **Project No.:** 2066873
Method: EPA 8151 **Batch:** 82734 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 26-Feb-07 **Analyzed:** 03/08/07 19:33 SPP1 (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
88-85-7	Dinoseb	1	ND		40.0

1 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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LELAP # 02006

Lab ID: 20504039
Description: 8081 Pests Low Soil **Project No.:** 2066873
Method: EPA 8081 **Batch:** 82794 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 27-Feb-07 **Analyzed:** 02/28/07 19:32 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
8001-35-2	Toxaphene	1	ND		66.7

1 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20504043
Description: 8151 Herbs Low Soil **Project No.:** 2066873
Method: EPA 8151 **Batch:** 82795 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 26-Feb-07 **Analyzed:** 03/14/07 21:52 SPP1 (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
88-85-7	Dinoseb	1	ND		40.0

1 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Phone: 504.469.0333
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LELAP # 02006

Lab ID: 20504420
Description: 8151 Herbs Low Soil **Project No.:** 2066873
Method: EPA 8151 **Batch:** 82846 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 28-Feb-07 **Analyzed:** 03/10/07 20:25 SPP1 (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
88-85-7	Dinoseb	1	ND		40.0

1 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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LELAP # 02006

Lab ID: 20507844
Description: 8151 Herbs Low Soil **Project No.:** 2066873
Method: EPA 8151 **Batch:** 83529 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 16-Mar-07 **Analyzed:** 03/19/07 21:46 SRA (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
94-75-7	2,4-D	1	ND		66.7
127-20-8	Dalapon	1	ND		200.
94-82-6	2,4-DB	1	ND		100.
1918-00-9	Dicamba	1	ND		10.0
120-36-5	Dichloroprop	1	ND		66.7
88-85-7	Dinoseb	1	ND		40.0
94-74-6	MCPA	1	ND		6670
7085-19-0	MCPP	1	ND		6670
93-76-5	2,4,5-T	1	21.1		10.0
93-72-1	2,4,5-TP (Silvex)	1	ND		10.0

10 compound(s) reported

3/21/2007 16:46:30

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Report of Quality Control

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2066873

Parameter	Batch	Blank	ARL	Units	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	RPD Max	Qu
Arsenic	82455	ND	1.00	mg/kg	100	100			90.23	88	85	12		71 - 131	46 - 137	20	
Arsenic	82456	ND	1.00	mg/kg	100	102			117.8	90	97	3		71 - 131	46 - 137	20	
Arsenic	82574	ND	10.0	ug/L	1000	99			1000	98	104	6		79 - 122	68 - 130	20	

3/21/2007 16:46:33

ARL denotes Adjusted Reporting Limit , corrected for sample size, dilution and moisture content as applicable.
* denotes recovery outside of QC limits.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Report Qualifiers

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2066873

ALL Qualifiers

Qualifier	Qualifier Description
N	See narrative for a detailed explanation.

Analyte Qualifiers

Qualifier	Qualifier Description
A7	3-Methylphenol and 4-methylphenol coelute under the conditions used for analysis, therefore the precise isomer in the sample cannot be determined. The sample concentration is arbitrarily reported as 4-methylphenol.
A10	N-Nitrosodiphenylamine is reported as diphenylamine.
A11	This analyte is a common solvent. Its presence in field samples may be an artifact of sample collection, transport, laboratory storage or analysis.
G1	Interferences are present which caused poor surrogate recovery.

General Qualifiers

Qualifier	Qualifier Description
D1	The analysis was performed at a dilution due to the high analyte concentration.
D2	The analysis was performed at a dilution due to the presence of matrix interferences.

QC Qualifiers

Qualifier	Qualifier Description
Q1	The matrix spike recoveries are poor. Acceptable method performance for this analyte has been demonstrated by the laboratory control sample recovery.
Q10	The spike recovery was above the laboratory QC limits, however, the data are reported without qualification since the target analyte was not detected in the corresponding samples.
Q5	Insufficient sample was provided to perform matrix spike analyses on any sample in this analytical batch. Method performance for this analyte has been demonstrated by the laboratory control sample recovery.

Sample Qualifiers

Qualifier	Qualifier Description
P5	A medium level preparation was performed based upon screening data or the nature of the sample matrix.

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

2066873

Page: 1 of 4

Section A — Required Client Information:

Company: ARCADIS	
Address: 10352 Plaza Americana Drive	
Baton Rouge, Louisiana 70816	
Email To: Craig.Derouen@arcadis-us.com; Jane.Kennedy@arcadis-us.com	
Phone: (225) 292-1004	Fax: (225) 218-9677
Requested Due Date/TAT: Standard	

Section B — Required Project Information:

Report To: Craig Derouen	
Copy To: Jane Kennedy	
Purchase Order No.:	
Project Name: MS Bluffs (Vicksburg, MS)	
Project Number: LA002656.0001.12	

Section C — Invoice Information:

Attention: ARCADIS - Accounts Payable	
Company Name: ARCADIS	
Address: 10352 Plaza Americana; Baton Rouge, LA 70819	
Pace Quote Reference:	
Pace Project Manager: Cindy Olavesen (504-305-3626)	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER MDEQ TRGs

SITE LOCATION ☐ GA ☐ IL ☐ IN ☐ MI ☐ NC ☐ OH ☐ SC ☐ WI ☑ OTHER MS

Section D — Required Client Information

SAMPLE ID
One Character per box.
(A-Z, 0-9 / ,-)
Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analyses Requested: VOC (8260, App IX)	SVOC (8270)	PCB/PCB Congeners	Metals	Residual Chlorine (Y/N)	Pace Project Number / Lab I.D.
1	GP-SB-01(0-2)	SL	G	2/13/07	0915				3	X								1	1		1		20502312
2	GP-SB-01(2-4)	"	"	"	0925				"	X								1	1		1		313
3	GP-SB-02(0-2)	"	"	"	0940				"	X								1	1		1		314
4	GP-SB-02(2-4)	"	"	"	0950				"	X								1	1		1		315
5	GP-SB-03(2-4)	"	"	"	1020				"	X								1	1		1		316
6	GP-SB-03(4-6)	"	"	"	1030				"	X								1	1		1		317
7	GP-SB-04(2-4)	"	"	"	1050				"	X								1	1		1		318
8	GP-SB-04(4-6)	"	"	"	1100				"	X								1	1		1		319
9	GP-SB-05(0-2)	"	"	"	1120				"	X								1	1		1		320
10	GP-SB-05(2-4)	"	"	"	1130				"	X								1	1		1		321
11	GP-SB-06(0-2)	"	"	"	1200				"	X								1	1		1		322
12	GP-SB-06(2-4)	"	"	"	1210				"	X								1	1		1		323

Additional Comments:

MDEQ Tier 1 TRG Detection Limits

6 coolers rec
2.2 - 4.2°

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature]	2/15/07	1615			
Fed Ex 12-150		1000	[signature]	2-15-07	1000

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
2.2-4.2	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kipper Montgomery
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 2/14/07

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 2 of 4

Section A Required Client Information:

Company: ARCADIS	
Address: 10352 Plaza Americana Drive	
Baton Rouge, Louisiana 70816	
Email To: Craig.Derouen@arcadis-us.com; Jane.Kennedy@arcadis-us.com	
Phone: (225) 292-1004 Fax: (225) 218-9677	
Requested Due Date/TAT: Standard	

Section B Required Project Information:

Report To: Craig Derouen	
Copy To: Jane Kennedy	
Purchase Order No.:	
Project Name: MS Bluffs (Vicksburg, MS)	
Project Number: LA002656.0001	

Section C Invoice Information:

Attention: ARCADIS - Accounts Payable	
Company Name: ARCADIS	
Address: 10352 Plaza Americana; Baton Rouge, LA 70819	
Pace Quote Reference:	
Pace Project Manager: Cindy Olavesen (504-305-3626)	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER MDEQ TRGs

SITE LOCATION ☐ GA ☐ IL ☐ IN ☐ MI ☐ NC ☐ OH ☐ SC ☑ WV ☐ OTHER MS

Section D Required Client Information

SAMPLE ID
One Character per box.
(A-Z, 0-9 / ,-)
Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL WP
WIPE	AR
AIR	OT
OTHER	TS
TISSUE	

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis: VOC (8260: App IX)	SVOC (8270)	Pest (8081)	Herb (8151)	Metals	Residual Chlorine (Y/N)	Pace Project Number / Lab I.D.
1	GP-SB-07(0-2)	SL	G	2/13/07	1400				3	X								1	1			1		0502324
2	GP-SB-07(2-4)	"	"	"	1410													1	1			1		325
3	GP-SB-DUP-01	"	"	"	—				3									1	1			1		329
4	GP-SB-08(0-2)	"	"	"	1440				9*									3	3			3		330 * Includes MS/MSD
5	GP-SB-08(2-4)	"	"	"	1450				3									1	1			1		331
6	GP-SB-09(0-2)	"	"	"	1540				3									1	1			1		332
7	GP-SB-09(2-4)	"	"	"	1550				3									1	1			1		333
8	GP-SB-10(0-2)	"	"	"	1610				3									1	1			1		334
9	GP-SB-10(2-4)	"	"	"	1620				3									1	1			1		335
10	GP-SB-11(0-2)	"	"	2/14/07	0735				3									1	1			1		338
11	GP-SB-11(2-4)	"	"	2/14/07	0745				3									1	1			1		343
12	GP-SB-12(0-2)	"	"	"	0845				3									1	1			1		344

Additional Comments:

MDEQ Tier 1 TRG Detection Limits

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature]	2/14/07	1615			
Fed Ex	2/15/07	1000	MJ Mullen - Pace JKN	2-22-07	1000

SAMPLE CONDITIONS

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kipper Montgomery

SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 02/14/07

6 coolers

E-File,(ALLQ020rev.3,31Mar05), 13Jun2005

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CHAIN-OF-CUSTODY / Analytical Request Document

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2066873

Section A — **Required** Client Information:

Company: ARCADIS	
Address: 10352 Plaza Americana Drive	
Baton Rouge, Louisiana 70816	
Email To: Craig.Derouen@arcadis-us.com; Jane.Kennedy@arcadis-us.com	
Phone: (225) 292-1004 Fax: (225) 218-9677	
Requested Due Date/TAT: Standard	

Section B — **Required** Project Information:

Report To: Craig Derouen	
Copy To: Jane Kennedy	
Purchase Order No.:	
Project Name: MS Bluffs (Vicksburg, MS)	
Project Number: LA002656.0001	

Section C — Invoice Information:

Attention: ARCADIS - Accounts Payable	
Company Name: ARCADIS	
Address: 10352 Plaza Americana; Baton Rouge, LA 70819	
Pace Quote Reference:	
Pace Project Manager: Cindy Olavesen (504-305-3626)	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER MDEQ TRGs

SITE LOCATION: ☐ GA ☐ IL ☐ IN ☐ MI ☐ NC ☐ OH ☐ SC ☑ WW ☐ OTHER MS

Section D — **Required** Client Information

SAMPLE ID
One Character per box.
(A-Z, 0-9 / ,-)
Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Requested: VOC (8260; App IX)	SVOC (8270)	PEST/HERB (8081A/8151A)	Metals	Residual Chlorine (Y/N)	Pace Project Number / Lab I.D.
1	GP-SB-12(2-4)	SL	G	2/14/07	0855				3	X								1	1		1		20502383
2	GP-SB-13(0-2)	"	"	"	0920				3	X								1	1		1		384
3	GP-SB-13(2-4)	"	"	"	0932				3	X								1	1		1		385
4	GP-SB-14(0-2)	"	"	"	1315				3	X								1	1		1		386
5	GP-SB-14(2-4)	"	"	"	1325				3	X								1	1		1		387
6	GP-SB-15(0-2)	"	"	"	1405				3	X								1	1		1		388
7	GP-SB-15(2-4)	"	"	"	1420				3	X								1	1		1		389
8	GP-SB-DUP-02	"	"	"	—				3	X								1	1		1		390
9	GP-SB-16(0-2)	"	"	"	1448				9	X	X							3	3		3		391
10	GP-SB-16(2-4)	"	"	"	1508				3	X								1	1		1		392
11	TB-GP-SB-01	WT	G	"	—				2				X					2					393
12	TB-GP-SB-02	WT	G	"	—				2				X					2					394

*Include MS/MSD

Additional Comments:

MDEQ Tier 1 TRG Detection Limits

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature]	2/14/07	1645			
Fedex	2/15/07	1600	[signature]	2-15-07	1000

SAMPLE CONDITIONS

Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
3.2	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kipper Montgomery
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM/DD/YY): 02/14/07

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Page: 4 of 4

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: ARCADIS	Report To: Craig Derouen	Attention: ARCADIS - Accounts Payable
Address: 10352 Plaza Americana Drive	Copy To: Jane Kennedy	Company Name: ARCADIS
Baton Rouge, Louisiana 70816		Address: 10352 Plaza Americana; Baton Rouge, LA 70819
Email To: Craig.Derouen@arcadis-us.com; Jane.Kennedy@arcadis-us.com	Purchase Order No.:	Pace Quote Reference:
Phone: (225) 292-1004 Fax: (225) 218-9677	Project Name: MS Bluffs (Vicksburg, MS)	Pace Project Manager: Cindy Olavesen (504-305-3626)
Requested Due Date/TAT: standard	Project Number: LA002656.0001	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER MDEQ TRGs

SITE LOCATION ☐ GA ☐ IL ☐ IN ☐ MI ☐ NC ☐ OH ☐ SC ☐ WI ☑ OTHER MS

Filtered (Y/N)

Requested Analysis

Pace Project Number / Lab I.D.

Valid Matrix Codes: MATRIX / CODE — DRINKING WATER / DW; WATER / WT; WASTE WATER / WW; PRODUCT / P; SOIL/SOLID / SL; OIL / OL WP; WIPE / AR; AIR / OT; OTHER / TS; TISSUE

ITEM #	Section D Required Client Information — SAMPLE ID (One Character per box. (A-Z, 0-9 / ,-) Samples IDs MUST BE UNIQUE)	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED Composite Start DATE	Composite Start TIME	Composite End/Grab DATE	Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	VOC (8260; App IX)	SVOC (8270)	Pest(8081)/Herb(8151)	Metals	Residual Chlorine (Y/N)	Pace Project Number / Lab I.D.
1	GP-SB-FB-01			2-13-07	1610				3				X					3					20502395
2	GP-SB-RB-01			"	1700				11			X	X					3	3	4	1		397
3	GP-SB-FB-02			2-14-07	1000				3				X					3					396
4	GP-SB-RB-02			"	1440				11			X	X					3	3	4	1		398
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

Additional Comments: NOTE: Trip Blanks Include with Soil Containers

MDEQ Tier 1 TRG Detection Limits

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature]	2-14-07	1615			
FedEx	2-15-07	1000	MJ Miller / Pace	2/15/07	1000

SAMPLE CONDITIONS

Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
2.2	N	N	N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Roger Montgomery

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 02/14/07

E-File,(ALLQ020rev.3,31Mar05), 13Jun2005

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Page: 1 of 4

Section A — **Required** Client Information:

Company: ARCADIS	
Address: 10352 Plaza Americana Drive	
Baton Rouge, Louisiana 70816	
Email To: Craig.Derouen@arcadis-us.com; Jane.Kennedy@arcadis-us.com	
Phone: (225) 292-1004 Fax: (225) 218-9677	
Requested Due Date/TAT: Standard	

Section B — **Required** Project Information:

Report To: Craig Derouen	
Copy To: Jane Kennedy	
Purchase Order No.:	
Project Name: MS Bluffs (Vicksburg, MS)	
Project Number: LA002656.0001.12	

Section C — Invoice Information:

Attention: ARCADIS - Accounts Payable	
Company Name: ARCADIS	
Address: 10352 Plaza Americana; Baton Rouge, LA 70819	
Pace Quote Reference:	
Pace Project Manager: Cindy Olavesen (504-305-3626)	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER MDEQ TRGs

SITE LOCATION: ☐ GA ☐ IL ☐ IN ☐ MS ☐ NC ☐ OH ☐ SC ☑ WW ☐ OTHER MS

Section D — **Required** Client Information

SAMPLE ID
One Character per box.
(A-Z, 0-9 / ,-)
Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL WP
WIPE	AR
AIR	OT
OTHER	TS
TISSUE	

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analyses: VOC (8260: App IX)	SVOC (8270)	Pest/Herb (8081/8151)	Metals	Residual Chlorine (Y/N)	Pace Project Number / Lab I.D.
1	GP-SB-01(0-2)	SL	G	2/13/07	0915				3	X								1	1		1		20502312
2	GP-SB-01(2-4)	"	"	"	0925				"	X								1	1		1		313
3	GP-SB-02(0-2)	"	"	"	0940				"	X								1	1		1		314
4	GP-SB-02(2-4)	"	"	"	0950				"	X								1	1		1		315
5	GP-SB-03(2-4)	"	"	"	1020				"	X								1	1		1		316
6	GP-SB-03(4-6)	"	"	"	1030				"	X								1	1		1		317
7	GP-SB-04(2-4)	"	"	"	1050				"	X								1	1		1		318
8	GP-SB-04(4-6)	"	"	"	1100				"	X								1	1		1		319
9	GP-SB-05(0-2)	"	"	"	1120				"	X								1	1		1		320
10	GP-SB-05(2-4)	"	"	"	1130				"	X								1	1		1		321
11	GP-SB-06(0-2)	"	"	"	1200				"	X								1	1		1		322
12	GP-SB-06(2-4)	"	"	"	1210				"	X								1	1		1		323

Additional Comments:

MDEQ Tier 1 TRG Detection Limits

6 coolers rec
2.2 - 4.2°

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature]	2-14-07	1615			
Fed Ex	2-15-07	1000	[signature]	2-15-07	1000

SAMPLE CONDITIONS

Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
2.2-4.2	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kipper Montgomery
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 02/14/07

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 2 of 4

Section A — **Required** Client Information:

Company: ARCADIS	
Address: 10352 Plaza Americana Drive	
Baton Rouge, Louisiana 70816	
Email To: Craig.Derouen@arcadis-us.com; Jane.Kennedy@arcadis-us.com	
Phone: (225) 292-1004 Fax: (225) 218-9677	
Requested Due Date/TAT: Standard	

Section B — **Required** Project Information:

Report To: Craig Derouen	
Copy To: Jane Kennedy	
Purchase Order No.:	
Project Name: MS Bluffs (Vicksburg, MS)	
Project Number: LA002656.0001	

Section C — Invoice Information:

Attention: ARCADIS - Accounts Payable	
Company Name: ARCADIS	
Address: 10352 Plaza Americana; Baton Rouge, LA 70819	
Pace Quote Reference:	
Pace Project Manager: Cindy Olavesen (504-305-3626)	
Pace Profile #:	

REGULATORY AGENCY

NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐
UST ☐ RCRA ☐ OTHER MDEQ TRGs

SITE LOCATION: GA ☐ IL ☐ IN ☐ MI ☐ NC ☐ OH ☐ SC ☐ WI ☑ OTHER MS

Section D — **Required** Client Information

SAMPLE ID
One Character per box.
(A-Z, 0-9 / ,-)
Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Pace Project Number / Lab I.D.
1	GP-SB-07(0-2)	SL	G	2/13/07	1400				3	X								0502324
2	GP-SB-07(2-4)	"	"	"	1410													325
3	GP-SB-DUP-01	"	"	"	—				3									329
4	GP-SB-08(0-2)	"	"	"	1440				9**									330 * Includes MS/MSD
5	GP-SB-08(2-4)	"	"	"	1450				3									331
6	GP-SB-09(0-2)	"	"	"	1540				3									332
7	GP-SB-09(2-4)	"	"	"	1550				3									333
8	GP-SB-10(0-2)	"	"	"	1610				3									334
9	GP-SB-10(2-4)	"	"	"	1620				3									335
10	GP-SB-11(0-2)	"	"	2/14/07	0825				3									338
11	GP-SB-11(2-4)	"	"	2/14/07	0745				3									343
12	GP-SB-12(0-2)	"	"	"	0845				3									344

Filtered (Y/N)

Requested Analysis: VOC (8260, App IX); SVOC (8270); Pest (8081); Herbicides; Metals; Residual Chlorine (Y/N)

Additional Comments:

MDEQ Tier 1 TRG Detection Limits

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	2/14/07	1615			
Fed Ex	2/15/07	1000	MJ Mull - Pace	2-15-07	1000

SAMPLE CONDITIONS

2.2-4.2	Y/N	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N	Y/N
Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact	

6 coolers

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kipper Montgomery

SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 02/14/07

CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 3 of 4

Section A — Required Client Information:

Company: ARCADIS
Address: 10352 Plaza Americana Drive
Baton Rouge, Louisiana 70816
Email To: Craig.Derouen@arcadis-us.com; Jane.Kennedy@arcadis-us.com
Phone: (225) 292-1004 Fax: (225) 218-9677
Requested Due Date/TAT: Standard

Section B — Required Project Information:

Report To: Craig Derouen
Copy To: Jane Kennedy
Purchase Order No.:
Project Name: MS Bluffs (Vicksburg, MS)
Project Number: LA002656.0001

Section C — Invoice Information:

Attention: ARCADIS - Accounts Payable
Company Name: ARCADIS
Address: 10352 Plaza Americana; Baton Rouge, LA 70819
Pace Quote Reference:
Pace Project Manager: Cindy Olavesen (504-305-3626)
Pace Profile #:

REGULATORY AGENCY: NPDES / GROUND WATER / DRINKING WATER / UST / RCRA / OTHER MDEQ TRGs

SITE LOCATION: GA / IL / IN / MI / NC / OH / SC / WI [checked] / OTHER MS

Filtered (Y/N)

Requested Analysis: VOC (8260; App IX), SVOC (8270), Pest/Herb, Metals, Residual Chlorine (Y/N)

Section D Required Client Information

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL WP; WIPE AR; AIR OT; OTHER TS; TISSUE

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE	COLLECTED DATE	COLLECTED TIME	# OF CONTAINERS	Unpreserved	HCl	VOC	SVOC	Pest/Herb	Metals	Pace Project Number Lab I.D.
1	GP-SB-12(2-4)	SL	G	2-14-07	0855	3	X		1	1		1	2a502383
2	GP-SB-13(0-2)	"	"	"	0920	3	X		1	1		1	384
3	GP-SB-13(2-4)	"	"	"	0930	3	X		1	1		1	385
4	GP-SB-14(0-2)	"	"	"	1315	3	X		1	1		1	386
5	GP-SB-14(2-4)	"	"	"	1325	3	X		1	1		1	387
6	GP-SB-15(0-2)	"	"	"	1405	3	X		1	1		1	388
7	GP-SB-15(2-4)	"	"	"	1420	3	X		1	1		1	389
8	GP-SB-DUP-02	"	"	"	—	3	X		1	1		1	390
9	GP-SB-16(0-2)	"	"	"	1448	9*	X		3	3		3	391 *Includes MS/MSD
10	GP-SB-16(2-4)	"	"	"	1508	3	X		1	1		1	392
11	TB-GP-SB-01	WT	G	"	—	2		X	2				393
12	TB-GP-SB-02	WT	G	"	—	2		X	2				394

Additional Comments:

MDEQ Tier 1 TRG Detection Limits

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
K. Montgomery	2/14/07	1615				
FedEx	2/15/07	1000	N. [illegible]	2/15/07	1000	2.2 Y/N Y/N Y/N

SAMPLE CONDITIONS: Temp in °C / Received on Ice / Custody Sealed Cooler / Samples Intact

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kipper Montgomery

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 02/14/07

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

2066873

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: ARCADIS	Report To: Craig Derouen	Attention: ARCADIS - Accounts Payable
Address: 10352 Plaza Americana Drive	Copy To: Jane Kennedy	Company Name: ARCADIS
Baton Rouge, Louisiana 70816		Address: 10352 Plaza Americana; Baton Rouge, LA 70819
Email To: Craig.Derouen@arcadis-us.com; Jane.Kennedy@arcadis-us.com	Purchase Order No.:	Pace Quote Reference:
Phone: (225) 292-1004 Fax: (225) 218-9677	Project Name: MS Bluffs (Vicksburg, MS)	Pace Project Manager: Cindy Olavesen (504-305-3626)
Requested Due Date/TAT: standard	Project Number: LA002656.0001	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER MDEQ TRGs

SITE LOCATION ☐ GA ☐ IL ☐ IN ☐ MI ☐ NC ☐ OH ☐ SC ☑ WV ☐ OTHER MS

Filtered (Y/N)

Requested Analysis

Pace Project Number / Lab I.D.

Section D Required Client Information

SAMPLE ID
One Character per box.
(A-Z, 0-9 / ,-)
Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	VOC (8260; App IX)	SVOC (8270)	Pest(8081)/Herb(8151)	Metals	Residual Chlorine (Y/N)	Pace Project Number / Lab I.D.
1	GP-SB-FB-01			2-13-07	1610				3				X					3					2050295
2	GP-SB-RB-01			"	1700				11			X	X					3	3	4	1		397
3	GP-SB-FB-02			2-14-07	1000				3				X					3					396
4	GP-SB-RB-02			"	1440				11			X	X					3	3	4	1		398
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

Additional Comments: NOTE: Trip Blanks Include with Soil-Terraces

MDEQ Tier 1 TRG Detection Limits

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature]	2-14-07	1615			
FedEx	2-15-07	1000	M. Mellon / Pace	2/15/07	1000

SAMPLE CONDITIONS

Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
2-7-2	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kipper Montgomery

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM / DD / YY): 02/14/07

Pace Analytical®
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Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

March 20, 2007

Craig Derouen
Arcadis Geraghty & Miller
10352 Plaza Americana Drive
Baton Rouge, LA 70816

RE: Project: 2066924
RE: Project ID: MS BLUFFS/LA002656-0001

Dear Craig Derouen:

Enclosed are the analytical results for sample(s) received by the laboratory on February 16, 2007. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Cindy Olavesen

Cindy Olavesen

ACCREDITED IN ACCORDANCE WITH nelac

REPORT OF LABORATORY ANALYSIS

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LELAP # 02006

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New Orleans Laboratory

Report of Laboratory Analysis

Project Number: 2066924

ACCREDITED IN ACCORDANCE WITH nelac

3/20/2007 17:18:33

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Sample Cross Reference Report

Pace Analytical Services, Inc.
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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656-0001

Project No.: 2066924

Sample ID	Lab ID	Matrix	Collection Date/Time		Received Date/Time	
GP-SB-17 (0-2)	20502690	Soil	02/15/2007	07:55	02/16/2007	15:45
GP-SB-17 (2-4)	20502691	Soil	02/15/2007	08:05	02/16/2007	15:45
GP-SB-18 (0-2)	20502692	Soil	02/15/2007	08:40	02/16/2007	15:45
GP-SB-18 (2-4)	20502693	Soil	02/15/2007	08:50	02/16/2007	15:45
GP-SB-19 (0-2)	20502694	Soil	02/15/2007	09:20	02/16/2007	15:45
GP-SB-19 (2-4)	20502695	Soil	02/15/2007	09:30	02/16/2007	15:45
GP-SB-20 (0-2)	20502696	Soil	02/15/2007	10:20	02/16/2007	15:45
GP-SB-20 (2-4)	20502697	Soil	02/15/2007	10:50	02/16/2007	15:45
GP-SB-21 (0-2)	20502698	Soil	02/15/2007	12:15	02/16/2007	15:45
GP-SB-21 (0-2)MS	20502698	Soil	02/15/2007	12:15	02/16/2007	15:45
GP-SB-21 (0-2)MSD	20502698	Soil	02/15/2007	12:15	02/16/2007	15:45
GP-SB-21 (2-4)	20502699	Soil	02/15/2007	12:30	02/16/2007	15:45
GP-SB-DUP-03	20502700	Soil	02/15/2007		02/16/2007	15:45
TB-GP-SB-03	20502702	Water	02/15/2007		02/16/2007	15:45
GP-SB-FB-03	20502703	Water	02/15/2007	12:45	02/16/2007	15:45
GP-SB-RB-03	20502704	Water	02/15/2007	13:08	02/16/2007	15:45

3/20/2007 17:18:36

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Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health .Environment - E-10266
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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: **2066924**

Narrative detail for GC semi-volatilves analyses:

Dinoseb is a poor performer by this method; QC recovery data may be poor or erratic as demonstrated by performance-based statistical evaluation

LCS for water batch 82528 yielded poor recovery for dinoseb.

Dinoseb was high biased in the closing standard that followed several samples in batch 82900; since there were no hits for dinoseb no corrective action was necessary.

Samples 205026994, 20502695, 20502696, and 20502697 were re-extracted due to low surrogate recoveries; re-extractions were performed outside holding time limits.

Surrogate recoveries were similar for samples 20502694, 20502696, and 20502697, indicating a matrix effect. All runs were included in the report.

Pesticides 82794: Sample 20502695 required re-extraction due to low surrogate recoveries. Re-extraction was performed outside holding time limit.

Surrogates were within limits in the re-analysis; both sets of data were included in the report.

Narrative detail for GC/MS semi-volatilves analyses:

Sample 20502695 required re-extraction due to low surrogate recoveries; the re-extraction was performed outside the holding time limit.

Both sets of results were included in the report.

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Project Narrative

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2066924

Sample Receipt Condition:

All samples were received in accordance with EPA protocol.

Holding Times:

All holding times were met.

Blanks:

All blank results were below reporting limits.

Laboratory Control Samples:

LCS recoveries outside of QC limits are qualified in the Report of Quality Control section.

Matrix Spikes and Duplicates:

MS or MSD recoveries outside of QC limits are qualified in the Report of Quality Control section.

Surrogates:

Surrogate recoveries outside of QC limits are qualified in the surrogate results section.

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Project Narrative

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Phone: 504.469.0333
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LELAP # 02006

Project: 2066924

Analytical Method	Batch	Sample used for QC
EPA 8081	82271	Client sample PZ-22A (020807) from project 2066695
EPA 8151	82528	Batch sample from another client
EPA 8081	82794	Client sample GP-SB-16 (0-2) from project 2066873
EPA 8151	82846	Client sample GP-SB-16 (0-2) from project 2066873
EPA 8151	82900	Project sample GP-SB-21 (0-2)
EPA 8081	82901	Project sample GP-SB-21 (0-2)
EPA 8151	83529	Batch sample from another client
EPA 6010	82574	Batch sample from another client
EPA 6010	82643	Project sample GP-SB-21 (0-2)
EPA 8270	82863	Client sample GP-SB-16 (0-2) from project 2066873
EPA 8270	82902	Project sample GP-SB-21 (0-2)
EPA 8270	83084	Client sample GP-SB-16 (0-2) from project 2066873
EPA 8260	82551	Client sample GP-SB-16 (0-2) from project 2066873
EPA 8260	82583	Batch sample from another client
EPA 8260	82609	Project sample GP-SB-21 (0-2)
% Moisture	82661	Client sample GP-SB-16 (0-2) from project 2066873
% Moisture	82661	Project sample GP-SB-21 (0-2)
% Moisture	82893	Project sample GP-SB-DUP-03

For the sample used as the original for the DUP or MS/MSD for the batch:

Project sample means a sample from this project was used.
Client sample means a sample from the same client but in a different project was used.
Batch sample means a sample from the a different client was used.

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Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-17 (0-2)
Site: None
Project: MS BLUFFS/LA002656-0001
Project No.: 2066924
Sample Qu:
Lab ID: 20502690
Matrix: Soil
% Moisture: 20.2 Corrected
Description: None
Prep Level: Soil
Batch: 82551
Method: 8260 VOAs Low Soil
Units: ug/kg
Target List: 8260_SL20
Collected: 02/15/07
Received: 02/16/07
Prep Factor: 1
Prepared: 02/23/07
Analyzed: 02/23/07 23:08 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	4.95	9.72	
75-05-8	Acetonitrile	1	ND		1.66	97.2	
107-02-8	Acrolein	1	ND		9.95	19.4	
107-13-1	Acrylonitrile	1	ND		3.01	19.4	
107-05-1	Allyl chloride	1	ND		0.628	9.72	
71-43-2	Benzene	1	ND		0.113	4.86	
75-27-4	Bromodichloromethane	1	ND		0.150	4.86	
75-25-2	Bromoform	1	ND		0.221	4.86	
74-83-9	Bromomethane	1	ND		0.816	4.86	
78-93-3	2-Butanone (MEK)	1	ND	A11	1.69	9.72	
75-15-0	Carbon disulfide	1	ND		0.0691	4.86	
56-23-5	Carbon tetrachloride	1	ND		0.106	4.86	
108-90-7	Chlorobenzene	1	ND		0.123	4.86	
75-00-3	Chloroethane	1	ND		0.264	4.86	
67-66-3	Chloroform	1	ND		0.306	4.86	
74-87-3	Chloromethane	1	ND		0.197	4.86	
126-99-8	Chloroprene	1	ND		0.402	4.86	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.64	4.86	
124-48-1	Dibromochloromethane	1	ND		0.154	4.86	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.865	4.86	
74-95-3	Dibromomethane	1	ND		0.461	4.86	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		0.720	4.86	
75-71-8	Dichlorodifluoromethane	1	ND		0.245	4.86	
75-34-3	1,1-Dichloroethane	1	ND		0.126	4.86	
107-06-2	1,2-Dichloroethane	1	ND		0.103	4.86	
75-35-4	1,1-Dichloroethene	1	ND		0.278	4.86	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.303	4.86	
78-87-5	1,2-Dichloropropane	1	ND		0.530	4.86	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.164	4.86	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.164	4.86	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		9.18	243.	
100-41-4	Ethylbenzene	1	ND		0.114	4.86	
97-63-2	Ethyl methacrylate	1	ND		0.502	9.72	

3/20/2007 17:19:09

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit denotes an actual regulatory limit or a client-requested notification limit.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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Report of Laboratory Analysis

Pace Analytical Services, Inc.
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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-17 (0-2)
Site: None
Project: MS BLUFFS/LA002656-0001
Project No.: 2066924
Sample Qu:
Lab ID: 20502690
Matrix: Soil
% Moisture: 20.2 Corrected
Description: None
Prep Level: Soil
Batch: 82551
Method: 8260 VOAs Low Soil
Units: ug/kg
Target List: 8260_SL20
Collected: 02/15/07
Received: 02/16/07
Prep Factor: 1
Prepared: 02/23/07
Analyzed: 02/23/07 23:08 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		2.42	9.72	
74-88-4	Iodomethane	1	ND		0.327	4.86	
78-83-1	Isobutanol	1	ND		13.3	243.	
126-98-7	Methacrylonitrile	1	ND		10.4	97.2	
75-09-2	Methylene chloride	1	ND	A11	0.364	4.86	
80-62-6	Methyl methacrylate	1	ND		0.454	9.72	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.670	9.72	
107-12-0	Propionitrile	1	ND		3.31	19.4	
100-42-5	Styrene	1	ND		0.107	4.86	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.333	4.86	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.188	4.86	
127-18-4	Tetrachloroethene	1	ND		0.152	4.86	
108-88-3	Toluene	1	0.952 J		0.0820	4.86	
71-55-6	1,1,1-Trichloroethane	1	ND		0.120	4.86	
79-00-5	1,1,2-Trichloroethane	1	ND		0.159	4.86	
79-01-6	Trichloroethene	1	ND		0.127	4.86	
75-69-4	Trichlorofluoromethane	1	ND		0.341	4.86	
96-18-4	1,2,3-Trichloropropane	1	ND		1.27	4.86	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0816	4.86	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.122	4.86	
108-05-4	Vinyl acetate	1	ND		0.269	9.72	
75-01-4	Vinyl chloride	1	ND		0.203	4.86	
	m&p-Xylene	1	ND		0.177	4.86	
95-47-6	o-Xylene	1	ND		0.0776	4.86	

57 compound(s) reported

3/20/2007 17:19:09

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
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For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
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Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Report of Laboratory Analysis

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-17 (0-2)
Site: None
Project: MS BLUFFS/LA002656-0001
Project No.: 2066924
Sample Qu:
Lab ID: 20502690
Matrix: Soil
% Moisture: 20.2 Corrected
Description: None
Prep Level: Soil
Batch: 82863
Method: 8270 SVOAs Low Soil
Units: ug/kg
Target List: 8270_SL20
Collected: 02/15/07
Received: 02/16/07
Prep Factor: 1
Prepared: 02/28/07
Analyzed: 03/04/07 00:32 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		124.	417.	
1912-24-9	Atrazine	1	ND			417.	
21725-46-2	Cyanazine	1	ND			417.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		108.	417.	
100-02-7	4-Nitrophenol	1	ND		61.1	417.	
87-86-5	Pentachlorophenol	1	ND		313.	417.	

6 compound(s) reported

3/20/2007 17:19:10

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit denotes an actual regulatory limit or a client-requested notification limit.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-17 (2-4)
Site: None
Project: MS BLUFFS/LA002656-0001
Project No.: 2066924
Sample Qu:
Lab ID: 20502691
Matrix: Soil
% Moisture: 20 Corrected
Description: None
Prep Level: Soil
Batch: 82551
Method: 8260 VOAs Low Soil
Units: ug/kg
Target List: 8260_SL20
Collected: 02/15/07
Received: 02/16/07
Prep Factor: 1
Prepared: 02/23/07
Analyzed: 02/23/07 23:27 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	16.2	A11	4.93	9.68	
75-05-8	Acetonitrile	1	ND		1.60	96.8	
107-02-8	Acrolein	1	ND		9.63	19.4	
107-13-1	Acrylonitrile	1	ND		2.91	19.4	
107-05-1	Allyl chloride	1	ND		0.608	9.68	
71-43-2	Benzene	1	ND		0.112	4.84	
75-27-4	Bromodichloromethane	1	ND		0.150	4.84	
75-25-2	Bromoform	1	ND		0.220	4.84	
74-83-9	Bromomethane	1	ND		0.813	4.84	
78-93-3	2-Butanone (MEK)	1	ND	A11	1.68	9.68	
75-15-0	Carbon disulfide	1	ND		0.0688	4.84	
56-23-5	Carbon tetrachloride	1	ND		0.106	4.84	
108-90-7	Chlorobenzene	1	ND		0.122	4.84	
75-00-3	Chloroethane	1	ND		0.263	4.84	
67-66-3	Chloroform	1	ND		0.305	4.84	
74-87-3	Chloromethane	1	ND		0.196	4.84	
126-99-8	Chloroprene	1	ND		0.389	4.84	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.63	4.84	
124-48-1	Dibromochloromethane	1	ND		0.154	4.84	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.861	4.84	
74-95-3	Dibromomethane	1	ND		0.446	4.84	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		0.697	4.84	
75-71-8	Dichlorodifluoromethane	1	ND		0.244	4.84	
75-34-3	1,1-Dichloroethane	1	ND		0.126	4.84	
107-06-2	1,2-Dichloroethane	1	ND		0.103	4.84	
75-35-4	1,1-Dichloroethene	1	ND		0.276	4.84	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.302	4.84	
78-87-5	1,2-Dichloropropane	1	ND		0.528	4.84	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.163	4.84	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.163	4.84	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		8.89	242.	
100-41-4	Ethylbenzene	1	ND		0.114	4.84	
97-63-2	Ethyl methacrylate	1	ND		0.485	9.68	

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Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health .Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-17 (2-4)
Site: None
Project: MS BLUFFS/LA002656-0001
Project No.: 2066924
Sample Qu:
Lab ID: 20502691
Matrix: Soil
% Moisture: 20 Corrected
Description: None
Prep Level: Soil
Batch: 82551
Method: 8260 VOAs Low Soil
Units: ug/kg
Target List: 8260_SL20
Collected: 02/15/07
Received: 02/16/07
Prep Factor: 1
Prepared: 02/23/07
Analyzed: 02/23/07 23:27 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		2.41	9.68	
74-88-4	Iodomethane	1	ND		0.316	4.84	
78-83-1	Isobutanol	1	ND		12.9	242.	
126-98-7	Methacrylonitrile	1	ND		10.1	96.8	
75-09-2	Methylene chloride	1	ND	A11	0.362	4.84	
80-62-6	Methyl methacrylate	1	ND		0.440	9.68	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.667	9.68	
107-12-0	Propionitrile	1	ND		3.20	19.4	
100-42-5	Styrene	1	ND		0.107	4.84	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.322	4.84	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.187	4.84	
127-18-4	Tetrachloroethene	1	ND		0.151	4.84	
108-88-3	Toluene	1	ND		0.0817	4.84	
71-55-6	1,1,1-Trichloroethane	1	ND		0.120	4.84	
79-00-5	1,1,2-Trichloroethane	1	ND		0.159	4.84	
79-01-6	Trichloroethene	1	ND		0.126	4.84	
75-69-4	Trichlorofluoromethane	1	ND		0.340	4.84	
96-18-4	1,2,3-Trichloropropane	1	ND		1.23	4.84	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0790	4.84	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.118	4.84	
108-05-4	Vinyl acetate	1	ND		0.260	9.68	
75-01-4	Vinyl chloride	1	ND		0.202	4.84	
	m&p-Xylene	1	ND		0.176	4.84	
95-47-6	o-Xylene	1	ND		0.0773	4.84	

57 compound(s) reported

3/20/2007 17:19:10

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-17 (2-4)
Site: None
Project: MS BLUFFS/LA002656-0001
Project No.: 2066924
Sample Qu:
Lab ID: 20502691
Matrix: Soil
% Moisture: 20 Corrected
Description: None
Prep Level: Soil
Batch: 82902
Method: 8270 SVOAs Low Soil
Units: ug/kg
Target List: 8270_SL20
Collected: 02/15/07
Received: 02/16/07
Prep Factor: 1
Prepared: 03/01/07
Analyzed: 03/02/07 17:46 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		123.	416.	
1912-24-9	Atrazine	1	ND			416.	
21725-46-2	Cyanazine	1	ND			416.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		108.	416.	
100-02-7	4-Nitrophenol	1	ND		61.0	416.	
87-86-5	Pentachlorophenol	1	ND		313.	416.	

6 compound(s) reported

3/20/2007 17:19:10

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LELAP # 02006

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-18 (0-2)
Site: None
Project: MS BLUFFS/LA002656-0001
Project No.: 2066924
Sample Qu:
Lab ID: 20502692
Matrix: Soil
% Moisture: 19.7 Corrected
Description: None
Prep Level: Soil
Batch: 82551
Method: 8260 VOAs Low Soil
Units: ug/kg
Target List: 8260_SL20
Collected: 02/15/07
Received: 02/16/07
Prep Factor: 1
Prepared: 02/23/07
Analyzed: 02/23/07 23:46 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	21.0	A11	5.00	9.82	
75-05-8	Acetonitrile	1	ND		1.66	98.2	
107-02-8	Acrolein	1	ND		9.95	19.6	
107-13-1	Acrylonitrile	1	ND		3.01	19.6	
107-05-1	Allyl chloride	1	ND		0.628	9.82	
71-43-2	Benzene	1	ND		0.114	4.91	
75-27-4	Bromodichloromethane	1	ND		0.152	4.91	
75-25-2	Bromoform	1	ND		0.223	4.91	
74-83-9	Bromomethane	1	ND		0.824	4.91	
78-93-3	2-Butanone (MEK)	1	ND	A11	1.71	9.82	
75-15-0	Carbon disulfide	1	ND		0.0698	4.91	
56-23-5	Carbon tetrachloride	1	ND		0.107	4.91	
108-90-7	Chlorobenzene	1	ND		0.124	4.91	
75-00-3	Chloroethane	1	ND		0.266	4.91	
67-66-3	Chloroform	1	ND		0.310	4.91	
74-87-3	Chloromethane	1	ND		0.199	4.91	
126-99-8	Chloroprene	1	ND		0.402	4.91	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.66	4.91	
124-48-1	Dibromochloromethane	1	ND		0.156	4.91	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.874	4.91	
74-95-3	Dibromomethane	1	ND		0.461	4.91	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		0.720	4.91	
75-71-8	Dichlorodifluoromethane	1	ND		0.248	4.91	
75-34-3	1,1-Dichloroethane	1	ND		0.128	4.91	
107-06-2	1,2-Dichloroethane	1	ND		0.104	4.91	
75-35-4	1,1-Dichloroethene	1	ND		0.280	4.91	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.306	4.91	
78-87-5	1,2-Dichloropropane	1	ND		0.536	4.91	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.166	4.91	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.166	4.91	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		9.18	245.	
100-41-4	Ethylbenzene	1	ND		0.115	4.91	
97-63-2	Ethyl methacrylate	1	ND		0.502	9.82	

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-18 (0-2) **Site:** None

Project: MS BLUFFS/LA002656-0001 **Project No.:** 2066924 **Sample Qu:**

Lab ID: 20502692 **Matrix:** Soil **% Moisture:** 19.7 Corrected

Description: None **Prep Level:** Soil **Batch:** 82551

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/15/07 **Received:** 02/16/07

Prep Factor: 1 **Prepared:** 02/23/07 **Analyzed:** 02/23/07 23:46 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		2.45	9.82	
74-88-4	Iodomethane	1	1.01 J		0.327	4.91	
78-83-1	Isobutanol	1	ND		13.3	245.	
126-98-7	Methacrylonitrile	1	ND		10.4	98.2	
75-09-2	Methylene chloride	1	ND	A11	0.368	4.91	
80-62-6	Methyl methacrylate	1	ND		0.454	9.82	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.677	9.82	
107-12-0	Propionitrile	1	ND		3.31	19.6	
100-42-5	Styrene	1	ND		0.108	4.91	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.333	4.91	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.190	4.91	
127-18-4	Tetrachloroethene	1	ND		0.153	4.91	
108-88-3	Toluene	1	ND		0.0829	4.91	
71-55-6	1,1,1-Trichloroethane	1	ND		0.121	4.91	
79-00-5	1,1,2-Trichloroethane	1	ND		0.161	4.91	
79-01-6	Trichloroethene	1	ND		0.128	4.91	
75-69-4	Trichlorofluoromethane	1	ND		0.345	4.91	
96-18-4	1,2,3-Trichloropropane	1	ND		1.27	4.91	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0816	4.91	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.122	4.91	
108-05-4	Vinyl acetate	1	ND		0.269	9.82	
75-01-4	Vinyl chloride	1	ND		0.205	4.91	
	m&p-Xylene	1	ND		0.179	4.91	
95-47-6	o-Xylene	1	ND		0.0785	4.91	

57 compound(s) reported

3/20/2007 17:19:10

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Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-18 (0-2) **Site:** None

Project: MS BLUFFS/LA002656-0001 **Project No.:** 2066924 **Sample Qu:**

Lab ID: 20502692 **Matrix:** Soil **% Moisture:** 19.7 Corrected

Description: None **Prep Level:** Soil **Batch:** 82902

Method: 8270 SVOAs Low Soil **Units:** ug/kg **Target List:** 8270_SL20

Collected: 02/15/07 **Received:** 02/16/07

Prep Factor: 1 **Prepared:** 03/01/07 **Analyzed:** 03/02/07 18:15 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		123.	415.	
1912-24-9	Atrazine	1	ND			415.	
21725-46-2	Cyanazine	1	ND			415.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		107.	415.	
100-02-7	4-Nitrophenol	1	ND		60.7	415.	
87-86-5	Pentachlorophenol	1	ND		311.	415.	

6 compound(s) reported

3/20/2007 17:19:10

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-18 (2-4) **Site:** None

Project: MS BLUFFS/LA002656-0001 **Project No.:** 2066924 **Sample Qu:**

Lab ID: 20502693 **Matrix:** Soil **% Moisture:** 19.9 Corrected

Description: None **Prep Level:** Soil **Batch:** 82551

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/15/07 **Received:** 02/16/07

Prep Factor: 1 **Prepared:** 02/24/07 **Analyzed:** 02/24/07 00:05 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	17.1	A11	4.84	9.49	
75-05-8	Acetonitrile	1	ND		1.57	94.9	
107-02-8	Acrolein	1	ND		9.44	19.0	
107-13-1	Acrylonitrile	1	ND		2.85	19.0	
107-05-1	Allyl chloride	1	ND		0.596	9.49	
71-43-2	Benzene	1	ND		0.110	4.74	
75-27-4	Bromodichloromethane	1	ND		0.147	4.74	
75-25-2	Bromoform	1	ND		0.216	4.74	
74-83-9	Bromomethane	1	ND		0.796	4.74	
78-93-3	2-Butanone (MEK)	1	ND	A11	1.65	9.49	
75-15-0	Carbon disulfide	1	ND		0.0674	4.74	
56-23-5	Carbon tetrachloride	1	ND		0.104	4.74	
108-90-7	Chlorobenzene	1	ND		0.120	4.74	
75-00-3	Chloroethane	1	ND		0.257	4.74	
67-66-3	Chloroform	1	ND		0.299	4.74	
74-87-3	Chloromethane	1	ND		0.192	4.74	
126-99-8	Chloroprene	1	ND		0.381	4.74	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.60	4.74	
124-48-1	Dibromochloromethane	1	ND		0.150	4.74	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.844	4.74	
74-95-3	Dibromomethane	1	ND		0.437	4.74	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		0.683	4.74	
75-71-8	Dichlorodifluoromethane	1	ND		0.240	4.74	
75-34-3	1,1-Dichloroethane	1	ND		0.123	4.74	
107-06-2	1,2-Dichloroethane	1	ND		0.101	4.74	
75-35-4	1,1-Dichloroethene	1	ND		0.271	4.74	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.296	4.74	
78-87-5	1,2-Dichloropropane	1	ND		0.518	4.74	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.160	4.74	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.160	4.74	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		8.71	237.	
100-41-4	Ethylbenzene	1	ND		0.111	4.74	
97-63-2	Ethyl methacrylate	1	ND		0.476	9.49	

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-18 (2-4) **Site:** None

Project: MS BLUFFS/LA002656-0001 **Project No.:** 2066924 **Sample Qu:**

Lab ID: 20502693 **Matrix:** Soil **% Moisture:** 19.9 Corrected

Description: None **Prep Level:** Soil **Batch:** 82551

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/15/07 **Received:** 02/16/07

Prep Factor: 1 **Prepared:** 02/24/07 **Analyzed:** 02/24/07 00:05 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		2.37	9.49	
74-88-4	Iodomethane	1	ND		0.310	4.74	
78-83-1	Isobutanol	1	ND		12.6	237.	
126-98-7	Methacrylonitrile	1	ND		9.91	94.9	
75-09-2	Methylene chloride	1	ND	A11	0.355	4.74	
80-62-6	Methyl methacrylate	1	ND		0.431	9.49	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.654	9.49	
107-12-0	Propionitrile	1	ND		3.14	19.0	
100-42-5	Styrene	1	ND		0.105	4.74	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.316	4.74	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.184	4.74	
127-18-4	Tetrachloroethene	1	ND		0.148	4.74	
108-88-3	Toluene	1	ND		0.0801	4.74	
71-55-6	1,1,1-Trichloroethane	1	ND		0.117	4.74	
79-00-5	1,1,2-Trichloroethane	1	ND		0.155	4.74	
79-01-6	Trichloroethene	1	ND		0.124	4.74	
75-69-4	Trichlorofluoromethane	1	ND		0.333	4.74	
96-18-4	1,2,3-Trichloropropane	1	ND		1.21	4.74	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0774	4.74	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.116	4.74	
108-05-4	Vinyl acetate	1	ND		0.255	9.49	
75-01-4	Vinyl chloride	1	ND		0.198	4.74	
	m&p-Xylene	1	ND		0.173	4.74	
95-47-6	o-Xylene	1	ND		0.0758	4.74	

57 compound(s) reported

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Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health .Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

Report of Laboratory Analysis

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1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Pace Analytical® New Orleans Laboratory

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-18 (2-4) **Site:** None

Project: MS BLUFFS/LA002656-0001 **Project No.:** 2066924 **Sample Qu:**

Lab ID: 20502693 **Matrix:** Soil **% Moisture:** 19.9 Corrected

Description: None **Prep Level:** Soil **Batch:** 82902

Method: 8270 SVOAs Low Soil **Units:** ug/kg **Target List:** 8270_SL20

Collected: 02/15/07 **Received:** 02/16/07

Prep Factor: 1 **Prepared:** 03/01/07 **Analyzed:** 03/02/07 18:44 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		123.	416.	
1912-24-9	Atrazine	1	ND			416.	
21725-46-2	Cyanazine	1	ND			416.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		107.	416.	
100-02-7	4-Nitrophenol	1	ND		60.9	416.	
87-86-5	Pentachlorophenol	1	ND		312.	416.	

6 compound(s) reported

3/20/2007 17:19:11

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-19 (0-2) **Site:** None

Project: MS BLUFFS/LA002656-0001 **Project No.:** 2066924 **Sample Qu:**

Lab ID: 20502694 **Matrix:** Soil **% Moisture:** 16.7 Corrected

Description: None **Prep Level:** Soil **Batch:** 82551

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/15/07 **Received:** 02/16/07

Prep Factor: 1 **Prepared:** 02/24/07 **Analyzed:** 02/24/07 00:24 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.02	9.86	
75-05-8	Acetonitrile	1	ND		1.63	98.6	
107-02-8	Acrolein	1	ND		9.81	19.7	
107-13-1	Acrylonitrile	1	ND		2.97	19.7	
107-05-1	Allyl chloride	1	ND		0.619	9.86	
71-43-2	Benzene	1	3.83	J	0.114	4.93	
75-27-4	Bromodichloromethane	1	ND		0.152	4.93	
75-25-2	Bromoform	1	ND		0.224	4.93	
74-83-9	Bromomethane	1	ND		0.828	4.93	
78-93-3	2-Butanone (MEK)	1	ND	A11	1.71	9.86	
75-15-0	Carbon disulfide	1	ND		0.0701	4.93	
56-23-5	Carbon tetrachloride	1	ND		0.108	4.93	
108-90-7	Chlorobenzene	1	ND		0.124	4.93	
75-00-3	Chloroethane	1	ND		0.267	4.93	
67-66-3	Chloroform	1	ND		0.311	4.93	
74-87-3	Chloromethane	1	ND		0.200	4.93	
126-99-8	Chloroprene	1	ND		0.396	4.93	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.67	4.93	
124-48-1	Dibromochloromethane	1	ND		0.156	4.93	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.877	4.93	
74-95-3	Dibromomethane	1	ND		0.454	4.93	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		0.710	4.93	
75-71-8	Dichlorodifluoromethane	1	ND		0.249	4.93	
75-34-3	1,1-Dichloroethane	1	ND		0.128	4.93	
107-06-2	1,2-Dichloroethane	1	ND		0.105	4.93	
75-35-4	1,1-Dichloroethene	1	ND		0.282	4.93	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.307	4.93	
78-87-5	1,2-Dichloropropane	1	ND		0.538	4.93	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.167	4.93	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.167	4.93	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		9.05	246.	
100-41-4	Ethylbenzene	1	3.56	J	0.116	4.93	
97-63-2	Ethyl methacrylate	1	ND		0.495	9.86	

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-19 (0-2)
Site: None
Project: MS BLUFFS/LA002656-0001
Project No.: 2066924
Sample Qu:
Lab ID: 20502694
Matrix: Soil
% Moisture: 16.7 Corrected
Description: None
Prep Level: Soil
Batch: 82551
Method: 8260 VOAs Low Soil
Units: ug/kg
Target List: 8260_SL20
Collected: 02/15/07
Received: 02/16/07
Prep Factor: 1
Prepared: 02/24/07
Analyzed: 02/24/07 00:24 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		2.46	9.86	
74-88-4	Iodomethane	1	ND		0.322	4.93	
78-83-1	Isobutanol	1	ND		13.1	246.	
126-98-7	Methacrylonitrile	1	ND		10.3	98.6	
75-09-2	Methylene chloride	1	ND	A11	0.369	4.93	
80-62-6	Methyl methacrylate	1	ND		0.448	9.86	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.679	9.86	
107-12-0	Propionitrile	1	ND		3.26	19.7	
100-42-5	Styrene	1	ND		0.109	4.93	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.328	4.93	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.191	4.93	
127-18-4	Tetrachloroethene	1	ND		0.154	4.93	
108-88-3	Toluene	1	9.31		0.0832	4.93	
71-55-6	1,1,1-Trichloroethane	1	ND		0.122	4.93	
79-00-5	1,1,2-Trichloroethane	1	ND		0.161	4.93	
79-01-6	Trichloroethene	1	ND		0.129	4.93	
75-69-4	Trichlorofluoromethane	1	ND		0.346	4.93	
96-18-4	1,2,3-Trichloropropane	1	ND		1.25	4.93	
95-63-6	1,2,4-Trimethylbenzene	1	3.63	J	0.0804	4.93	
108-67-8	1,3,5-Trimethylbenzene	1	1.12	J	0.120	4.93	
108-05-4	Vinyl acetate	1	ND		0.265	9.86	
75-01-4	Vinyl chloride	1	ND		0.206	4.93	
	m&p-Xylene	1	5.67		0.180	4.93	
95-47-6	o-Xylene	1	2.79	J	0.0788	4.93	

57 compound(s) reported

3/20/2007 17:19:11

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-19 (0-2) **Site:** None

Project: MS BLUFFS/LA002656-0001 **Project No.:** 2066924 **Sample Qu:**

Lab ID: 20502694 **Matrix:** Soil **% Moisture:** 16.7 Corrected

Description: None **Prep Level:** Soil **Batch:** 82902

Method: 8270 SVOAs Low Soil **Units:** ug/kg **Target List:** 8270_SL20

Collected: 02/15/07 **Received:** 02/16/07

Prep Factor: 1 **Prepared:** 03/01/07 **Analyzed:** 03/02/07 19:11 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		118.	400.	
1912-24-9	Atrazine	1	ND			400.	
21725-46-2	Cyanazine	1	ND			400.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		103.	400.	
100-02-7	4-Nitrophenol	1	ND		58.5	400.	
87-86-5	Pentachlorophenol	1	ND		300.	400.	

6 compound(s) reported

3/20/2007 17:19:11

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-19 (2-4) **Site:** None

Project: MS BLUFFS/LA002656-0001 **Project No.:** 2066924 **Sample Qu:**

Lab ID: 20502695 **Matrix:** Soil **% Moisture:** 19.8 Corrected

Description: None **Prep Level:** Soil **Batch:** 82551

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/15/07 **Received:** 02/16/07

Prep Factor: 1 **Prepared:** 02/24/07 **Analyzed:** 02/24/07 00:43 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.17	10.1	
75-05-8	Acetonitrile	1	ND		1.68	101.	
107-02-8	Acrolein	1	ND		10.1	20.3	
107-13-1	Acrylonitrile	1	ND		3.05	20.3	
107-05-1	Allyl chloride	1	ND		0.637	10.1	
71-43-2	Benzene	1	2.82	J	0.118	5.07	
75-27-4	Bromodichloromethane	1	ND		0.157	5.07	
75-25-2	Bromoform	1	ND		0.231	5.07	
74-83-9	Bromomethane	1	ND		0.851	5.07	
78-93-3	2-Butanone (MEK)	1	ND	A11	1.76	10.1	
75-15-0	Carbon disulfide	1	ND		0.0721	5.07	
56-23-5	Carbon tetrachloride	1	ND		0.111	5.07	
108-90-7	Chlorobenzene	1	ND		0.128	5.07	
75-00-3	Chloroethane	1	ND		0.275	5.07	
67-66-3	Chloroform	1	ND		0.320	5.07	
74-87-3	Chloromethane	1	ND		0.206	5.07	
126-99-8	Chloroprene	1	ND		0.408	5.07	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.71	5.07	
124-48-1	Dibromochloromethane	1	ND		0.161	5.07	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.903	5.07	
74-95-3	Dibromomethane	1	ND		0.468	5.07	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		0.730	5.07	
75-71-8	Dichlorodifluoromethane	1	ND		0.256	5.07	
75-34-3	1,1-Dichloroethane	1	ND		0.132	5.07	
107-06-2	1,2-Dichloroethane	1	ND		0.108	5.07	
75-35-4	1,1-Dichloroethene	1	ND		0.290	5.07	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.316	5.07	
78-87-5	1,2-Dichloropropane	1	ND		0.553	5.07	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.171	5.07	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.171	5.07	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		9.31	254.	
100-41-4	Ethylbenzene	1	2.58	J	0.119	5.07	
97-63-2	Ethyl methacrylate	1	ND		0.509	10.1	

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-19 (2-4) **Site:** None

Project: MS BLUFFS/LA002656-0001 **Project No.:** 2066924 **Sample Qu:**

Lab ID: 20502695 **Matrix:** Soil **% Moisture:** 19.8 Corrected

Description: None **Prep Level:** Soil **Batch:** 82551

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/15/07 **Received:** 02/16/07

Prep Factor: 1 **Prepared:** 02/24/07 **Analyzed:** 02/24/07 00:43 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		2.53	10.1	
74-88-4	Iodomethane	1	ND		0.332	5.07	
78-83-1	Isobutanol	1	ND		13.5	254.	
126-98-7	Methacrylonitrile	1	ND		10.6	101.	
75-09-2	Methylene chloride	1	ND	A11	0.380	5.07	
80-62-6	Methyl methacrylate	1	ND		0.461	10.1	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.699	10.1	
107-12-0	Propionitrile	1	ND		3.36	20.3	
100-42-5	Styrene	1	ND		0.112	5.07	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.338	5.07	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.196	5.07	
127-18-4	Tetrachloroethene	1	ND		0.158	5.07	
108-88-3	Toluene	1	6.92		0.0856	5.07	
71-55-6	1,1,1-Trichloroethane	1	ND		0.125	5.07	
79-00-5	1,1,2-Trichloroethane	1	ND		0.166	5.07	
79-01-6	Trichloroethene	1	ND		0.132	5.07	
75-69-4	Trichlorofluoromethane	1	ND		0.356	5.07	
96-18-4	1,2,3-Trichloropropane	1	ND		1.29	5.07	
95-63-6	1,2,4-Trimethylbenzene	1	2.47	J	0.0828	5.07	
108-67-8	1,3,5-Trimethylbenzene	1	0.862	J	0.124	5.07	
108-05-4	Vinyl acetate	1	ND		0.273	10.1	
75-01-4	Vinyl chloride	1	ND		0.212	5.07	
	m&p-Xylene	1	3.79	J	0.185	5.07	
95-47-6	o-Xylene	1	1.85	J	0.0810	5.07	

57 compound(s) reported

3/20/2007 17:19:12

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U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-19 (2-4) **Site:** None

Project: MS BLUFFS/LA002656-0001 **Project No.:** 2066924 **Sample Qu:**

Lab ID: 20502695RE4 **Matrix:** Soil **% Moisture:** 19.8 Corrected

Description: None **Prep Level:** Soil **Batch:** 82902

Method: 8270 SVOAs Low Soil **Units:** ug/kg **Target List:** 8270_SL20

Collected: 02/15/07 **Received:** 02/16/07

Prep Factor: 1 **Prepared:** 03/01/07 **Analyzed:** 03/02/07 19:39 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND	N	123.	415.	
1912-24-9	Atrazine	1	ND	N		415.	
21725-46-2	Cyanazine	1	ND	N		415.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND	N	107.	415.	
100-02-7	4-Nitrophenol	1	ND	N	60.8	415.	
87-86-5	Pentachlorophenol	1	ND	N	312.	415.	

6 compound(s) reported

3/20/2007 17:19:12

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Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-19 (2-4) **Site:** None

Project: MS BLUFFS/LA002656-0001 **Project No.:** 2066924 **Sample Qu:**

Lab ID: 20502695RE5 **Matrix:** Soil **% Moisture:** 19.8 Corrected

Description: None **Prep Level:** Soil **Batch:** 83084

Method: 8270 SVOAs Low Soil **Units:** ug/kg **Target List:** 8270_SL20

Collected: 02/15/07 **Received:** 02/16/07

Prep Factor: 1 **Prepared:** 03/06/07 **Analyzed:** 03/07/07 18:35 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND	N	123.	415.	
1912-24-9	Atrazine	1	ND	N		415.	
21725-46-2	Cyanazine	1	ND	N		415.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND	N	107.	415.	
100-02-7	4-Nitrophenol	1	ND	N	60.8	415.	
87-86-5	Pentachlorophenol	1	ND	N	312.	415.	

6 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-20 (0-2) **Site:** None

Project: MS BLUFFS/LA002656-0001 **Project No.:** 2066924 **Sample Qu:**

Lab ID: 20502696 **Matrix:** Soil **% Moisture:** 16.3 Corrected

Description: None **Prep Level:** Soil **Batch:** 82551

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/15/07 **Received:** 02/16/07

Prep Factor: 1 **Prepared:** 02/24/07 **Analyzed:** 02/24/07 01:02 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	4.80	9.42	
75-05-8	Acetonitrile	1	ND		1.56	94.2	
107-02-8	Acrolein	1	ND		9.37	18.8	
107-13-1	Acrylonitrile	1	ND		2.83	18.8	
107-05-1	Allyl chloride	1	ND		0.592	9.42	
71-43-2	Benzene	1	2.80	J	0.109	4.71	
75-27-4	Bromodichloromethane	1	ND		0.146	4.71	
75-25-2	Bromoform	1	ND		0.214	4.71	
74-83-9	Bromomethane	1	ND		0.791	4.71	
78-93-3	2-Butanone (MEK)	1	ND	A11	1.64	9.42	
75-15-0	Carbon disulfide	1	ND		0.0670	4.71	
56-23-5	Carbon tetrachloride	1	ND		0.103	4.71	
108-90-7	Chlorobenzene	1	ND		0.119	4.71	
75-00-3	Chloroethane	1	ND		0.256	4.71	
67-66-3	Chloroform	1	ND		0.297	4.71	
74-87-3	Chloromethane	1	ND		0.191	4.71	
126-99-8	Chloroprene	1	ND		0.379	4.71	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.59	4.71	
124-48-1	Dibromochloromethane	1	ND		0.149	4.71	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.838	4.71	
74-95-3	Dibromomethane	1	ND		0.434	4.71	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		0.678	4.71	
75-71-8	Dichlorodifluoromethane	1	ND		0.238	4.71	
75-34-3	1,1-Dichloroethane	1	ND		0.122	4.71	
107-06-2	1,2-Dichloroethane	1	ND		0.100	4.71	
75-35-4	1,1-Dichloroethene	1	ND		0.269	4.71	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.294	4.71	
78-87-5	1,2-Dichloropropane	1	ND		0.514	4.71	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.159	4.71	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.159	4.71	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		8.65	236.	
100-41-4	Ethylbenzene	1	2.43	J	0.111	4.71	
97-63-2	Ethyl methacrylate	1	ND		0.473	9.42	

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Client ID: GP-SB-20 (0-2) **Site:** None

Project: MS BLUFFS/LA002656-0001 **Project No.:** 2066924 **Sample Qu:**

Lab ID: 20502696 **Matrix:** Soil **% Moisture:** 16.3 Corrected

Description: None **Prep Level:** Soil **Batch:** 82551

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/15/07 **Received:** 02/16/07

Prep Factor: 1 **Prepared:** 02/24/07 **Analyzed:** 02/24/07 01:02 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		2.35	9.42	
74-88-4	Iodomethane	1	ND		0.308	4.71	
78-83-1	Isobutanol	1	ND		12.5	236.	
126-98-7	Methacrylonitrile	1	ND		9.85	94.2	
75-09-2	Methylene chloride	1	ND	A11	0.353	4.71	
80-62-6	Methyl methacrylate	1	ND		0.428	9.42	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.649	9.42	
107-12-0	Propionitrile	1	ND		3.12	18.8	
100-42-5	Styrene	1	ND		0.104	4.71	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.314	4.71	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.182	4.71	
127-18-4	Tetrachloroethene	1	ND		0.147	4.71	
108-88-3	Toluene	1	6.40		0.0795	4.71	
71-55-6	1,1,1-Trichloroethane	1	ND		0.117	4.71	
79-00-5	1,1,2-Trichloroethane	1	ND		0.154	4.71	
79-01-6	Trichloroethene	1	ND		0.123	4.71	
75-69-4	Trichlorofluoromethane	1	ND		0.331	4.71	
96-18-4	1,2,3-Trichloropropane	1	ND		1.20	4.71	
95-63-6	1,2,4-Trimethylbenzene	1	2.48	J	0.0769	4.71	
108-67-8	1,3,5-Trimethylbenzene	1	0.810	J	0.115	4.71	
108-05-4	Vinyl acetate	1	ND		0.253	9.42	
75-01-4	Vinyl chloride	1	ND		0.197	4.71	
	m&p-Xylene	1	3.95	J	0.172	4.71	
95-47-6	o-Xylene	1	1.84	J	0.0753	4.71	

57 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-20 (0-2) **Site:** None

Project: MS BLUFFS/LA002656-0001 **Project No.:** 2066924 **Sample Qu:**

Lab ID: 20502696 **Matrix:** Soil **% Moisture:** 16.3 Corrected

Description: None **Prep Level:** Soil **Batch:** 82902

Method: 8270 SVOAs Low Soil **Units:** ug/kg **Target List:** 8270_SL20

Collected: 02/15/07 **Received:** 02/16/07

Prep Factor: 1 **Prepared:** 03/01/07 **Analyzed:** 03/02/07 20:06 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		118.	398.	
1912-24-9	Atrazine	1	ND			398.	
21725-46-2	Cyanazine	1	ND			398.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		103.	398.	
100-02-7	4-Nitrophenol	1	ND		58.2	398.	
87-86-5	Pentachlorophenol	1	ND		299.	398.	

6 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-20 (2-4) **Site:** None

Project: MS BLUFFS/LA002656-0001 **Project No.:** 2066924 **Sample Qu:**

Lab ID: 20502697 **Matrix:** Soil **% Moisture:** 20.4 Corrected

Description: None **Prep Level:** Soil **Batch:** 82551

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/15/07 **Received:** 02/16/07

Prep Factor: 1 **Prepared:** 02/24/07 **Analyzed:** 02/24/07 01:22 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.00	9.81	
75-05-8	Acetonitrile	1	ND		1.62	98.1	
107-02-8	Acrolein	1	ND		9.76	19.6	
107-13-1	Acrylonitrile	1	ND		2.95	19.6	
107-05-1	Allyl chloride	1	ND		0.616	9.81	
71-43-2	Benzene	1	1.44 J		0.114	4.91	
75-27-4	Bromodichloromethane	1	ND		0.152	4.91	
75-25-2	Bromoform	1	ND		0.223	4.91	
74-83-9	Bromomethane	1	ND		0.824	4.91	
78-93-3	2-Butanone (MEK)	1	ND	A11	1.71	9.81	
75-15-0	Carbon disulfide	1	ND		0.0698	4.91	
56-23-5	Carbon tetrachloride	1	ND		0.107	4.91	
108-90-7	Chlorobenzene	1	ND		0.124	4.91	
75-00-3	Chloroethane	1	ND		0.266	4.91	
67-66-3	Chloroform	1	ND		0.309	4.91	
74-87-3	Chloromethane	1	ND		0.199	4.91	
126-99-8	Chloroprene	1	ND		0.394	4.91	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.66	4.91	
124-48-1	Dibromochloromethane	1	ND		0.156	4.91	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.873	4.91	
74-95-3	Dibromomethane	1	ND		0.452	4.91	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		0.706	4.91	
75-71-8	Dichlorodifluoromethane	1	ND		0.248	4.91	
75-34-3	1,1-Dichloroethane	1	ND		0.127	4.91	
107-06-2	1,2-Dichloroethane	1	ND		0.104	4.91	
75-35-4	1,1-Dichloroethene	1	ND		0.280	4.91	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.306	4.91	
78-87-5	1,2-Dichloropropane	1	ND		0.535	4.91	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.166	4.91	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.166	4.91	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		9.01	245.	
100-41-4	Ethylbenzene	1	0.971 J		0.115	4.91	
97-63-2	Ethyl methacrylate	1	ND		0.492	9.81	

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-20 (2-4) **Site:** None

Project: MS BLUFFS/LA002656-0001 **Project No.:** 2066924 **Sample Qu:**

Lab ID: 20502697 **Matrix:** Soil **% Moisture:** 20.4 Corrected

Description: None **Prep Level:** Soil **Batch:** 82551

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/15/07 **Received:** 02/16/07

Prep Factor: 1 **Prepared:** 02/24/07 **Analyzed:** 02/24/07 01:22 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		2.45	9.81	
74-88-4	Iodomethane	1	ND		0.321	4.91	
78-83-1	Isobutanol	1	ND		13.1	245.	
126-98-7	Methacrylonitrile	1	ND		10.3	98.1	
75-09-2	Methylene chloride	1	ND	A11	0.367	4.91	
80-62-6	Methyl methacrylate	1	ND		0.446	9.81	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.676	9.81	
107-12-0	Propionitrile	1	ND		3.25	19.6	
100-42-5	Styrene	1	ND		0.108	4.91	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.327	4.91	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.190	4.91	
127-18-4	Tetrachloroethene	1	ND		0.153	4.91	
108-88-3	Toluene	1	2.38 J		0.0828	4.91	
71-55-6	1,1,1-Trichloroethane	1	ND		0.121	4.91	
79-00-5	1,1,2-Trichloroethane	1	ND		0.161	4.91	
79-01-6	Trichloroethene	1	ND		0.128	4.91	
75-69-4	Trichlorofluoromethane	1	ND		0.344	4.91	
96-18-4	1,2,3-Trichloropropane	1	ND		1.25	4.91	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0801	4.91	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.119	4.91	
108-05-4	Vinyl acetate	1	ND		0.264	9.81	
75-01-4	Vinyl chloride	1	ND		0.205	4.91	
	m&p-Xylene	1	1.77 J		0.179	4.91	
95-47-6	o-Xylene	1	0.824 J		0.0784	4.91	

57 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-20 (2-4) **Site:** None

Project: MS BLUFFS/LA002656-0001 **Project No.:** 2066924 **Sample Qu:**

Lab ID: 20502697 **Matrix:** Soil **% Moisture:** 20.4 Corrected

Description: None **Prep Level:** Soil **Batch:** 82902

Method: 8270 SVOAs Low Soil **Units:** ug/kg **Target List:** 8270_SL20

Collected: 02/15/07 **Received:** 02/16/07

Prep Factor: 1 **Prepared:** 03/01/07 **Analyzed:** 03/02/07 20:33 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		124.	418.	
1912-24-9	Atrazine	1	ND			418.	
21725-46-2	Cyanazine	1	ND			418.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		108.	418.	
100-02-7	4-Nitrophenol	1	ND		61.2	418.	
87-86-5	Pentachlorophenol	1	ND		314.	418.	

6 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
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Kansas Dept. of Health Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-21 (0-2) **Site:** None

Project: MS BLUFFS/LA002656-0001 **Project No.:** 2066924 **Sample Qu:**

Lab ID: 20502698 **Matrix:** Soil **% Moisture:** 18.4 Corrected

Description: None **Prep Level:** Soil **Batch:** 82609

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/15/07 **Received:** 02/16/07

Prep Factor: 1 **Prepared:** 02/23/07 **Analyzed:** 02/23/07 16:45 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	11.9	A11	4.84	9.49	
75-05-8	Acetonitrile	1	ND		1.57	94.9	
107-02-8	Acrolein	1	ND		9.44	19.0	
107-13-1	Acrylonitrile	1	ND		2.85	19.0	
107-05-1	Allyl chloride	1	ND		0.596	9.49	
71-43-2	Benzene	1	1.71	J	0.110	4.74	
75-27-4	Bromodichloromethane	1	ND		0.147	4.74	
75-25-2	Bromoform	1	ND		0.216	4.74	
74-83-9	Bromomethane	1	ND		0.796	4.74	
78-93-3	2-Butanone (MEK)	1	ND	A11	1.65	9.49	
75-15-0	Carbon disulfide	1	1.21	J	0.0675	4.74	
56-23-5	Carbon tetrachloride	1	ND		0.104	4.74	
108-90-7	Chlorobenzene	1	ND		0.120	4.74	
75-00-3	Chloroethane	1	ND		0.257	4.74	
67-66-3	Chloroform	1	ND		0.299	4.74	
74-87-3	Chloromethane	1	ND		0.192	4.74	
126-99-8	Chloroprene	1	ND		0.381	4.74	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.60	4.74	
124-48-1	Dibromochloromethane	1	ND		0.150	4.74	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.844	4.74	
74-95-3	Dibromomethane	1	ND		0.437	4.74	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		0.683	4.74	
75-71-8	Dichlorodifluoromethane	1	ND		0.240	4.74	
75-34-3	1,1-Dichloroethane	1	ND		0.123	4.74	
107-06-2	1,2-Dichloroethane	1	ND		0.101	4.74	
75-35-4	1,1-Dichloroethene	1	ND		0.271	4.74	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.296	4.74	
78-87-5	1,2-Dichloropropane	1	ND		0.518	4.74	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.160	4.74	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.160	4.74	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		8.71	237.	
100-41-4	Ethylbenzene	1	1.52	J	0.111	4.74	
97-63-2	Ethyl methacrylate	1	ND		0.476	9.49	

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-21 (0-2) | **Site:** None

Project: MS BLUFFS/LA002656-0001 | **Project No.:** 2066924 | **Sample Qu:**

Lab ID: 20502698 | **Matrix:** Soil | **% Moisture:** 18.4 Corrected

Description: None | **Prep Level:** Soil | **Batch:** 82609

Method: 8260 VOAs Low Soil | **Units:** ug/kg | **Target List:** 8260_SL20

Collected: 02/15/07 | **Received:** 02/16/07

Prep Factor: 1 | **Prepared:** 02/23/07 | **Analyzed:** 02/23/07 16:45 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		2.37	9.49	
74-88-4	Iodomethane	1	ND		0.310	4.74	
78-83-1	Isobutanol	1	ND		12.6	237.	
126-98-7	Methacrylonitrile	1	ND		9.91	94.9	
75-09-2	Methylene chloride	1	ND	A11	0.355	4.74	
80-62-6	Methyl methacrylate	1	ND		0.431	9.49	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.654	9.49	
107-12-0	Propionitrile	1	ND		3.14	19.0	
100-42-5	Styrene	1	ND		0.105	4.74	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.316	4.74	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.184	4.74	
127-18-4	Tetrachloroethene	1	ND		0.148	4.74	
108-88-3	Toluene	1	4.62	J	0.0801	4.74	
71-55-6	1,1,1-Trichloroethane	1	ND		0.117	4.74	
79-00-5	1,1,2-Trichloroethane	1	ND		0.155	4.74	
79-01-6	Trichloroethene	1	ND		0.124	4.74	
75-69-4	Trichlorofluoromethane	1	ND		0.333	4.74	
96-18-4	1,2,3-Trichloropropane	1	ND		1.21	4.74	
95-63-6	1,2,4-Trimethylbenzene	1	1.31	J	0.0774	4.74	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.116	4.74	
108-05-4	Vinyl acetate	1	ND		0.255	9.49	
75-01-4	Vinyl chloride	1	ND		0.198	4.74	
	m&p-Xylene	1	2.10	J	0.173	4.74	
95-47-6	o-Xylene	1	0.939	J	0.0758	4.74	

57 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-21 (0-2) **Site:** None

Project: MS BLUFFS/LA002656-0001 **Project No.:** 2066924 **Sample Qu:**

Lab ID: 20502698 **Matrix:** Soil **% Moisture:** 18.4 Corrected

Description: None **Prep Level:** Soil **Batch:** 82902

Method: 8270 SVOAs Low Soil **Units:** ug/kg **Target List:** 8270_SL20

Collected: 02/15/07 **Received:** 02/16/07

Prep Factor: 1 **Prepared:** 03/01/07 **Analyzed:** 03/02/07 17:17 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		121.	408.	
1912-24-9	Atrazine	1	ND			408.	
21725-46-2	Cyanazine	1	ND			408.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		105.	408.	
100-02-7	4-Nitrophenol	1	ND		59.8	408.	
87-86-5	Pentachlorophenol	1	ND		306.	408.	

6 compound(s) reported

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-21 (0-2)MS
Site: None
Project: MS BLUFFS/LA002656-0001
Project No.: 2066924
Sample Qu:
Lab ID: 20502698MS
Matrix: Soil
% Moisture: 18.4 Corrected
Description: None
Prep Level: Soil
Batch: 82609
Method: 8260 VOAs Low Soil MS
Units: ug/kg
Target List: 8260 MSL20
Collected: 02/15/07
Received: 02/16/07
Prep Factor: 1
Prepared: 02/23/07
Analyzed: 02/23/07 17:07 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	54.1	A11	4.78	9.39	
75-05-8	Acetonitrile	1	274.		1.55	93.9	
107-02-8	Acrolein	1	36.1		9.34	18.8	
107-13-1	Acrylonitrile	1	52.2		2.82	18.8	
107-05-1	Allyl chloride	1	40.8		0.589	9.39	
71-43-2	Benzene	1	20.1		0.109	4.69	
75-27-4	Bromodichloromethane	1	20.2		0.145	4.69	
75-25-2	Bromoform	1	19.5		0.214	4.69	
74-83-9	Bromomethane	1	26.5		0.788	4.69	
78-93-3	2-Butanone (MEK)	1	21.7	A11	1.63	9.39	
75-15-0	Carbon disulfide	1	20.5		0.0667	4.69	
56-23-5	Carbon tetrachloride	1	27.9		0.103	4.69	
108-90-7	Chlorobenzene	1	21.8		0.118	4.69	
75-00-3	Chloroethane	1	26.5		0.255	4.69	
67-66-3	Chloroform	1	23.7		0.296	4.69	
74-87-3	Chloromethane	1	24.5		0.190	4.69	
126-99-8	Chloroprene	1	22.8		0.377	4.69	
96-12-8	1,2-Dibromo-3-chloropropane	1	20.1		1.59	4.69	
124-48-1	Dibromochloromethane	1	21.7		0.149	4.69	
106-93-4	1,2-Dibromoethane (EDB)	1	23.4		0.835	4.69	
74-95-3	Dibromomethane	1	21.2		0.433	4.69	
110-57-6	trans-1,4-Dichloro-2-butene	1	43.7		0.676	4.69	
75-34-3	1,1-Dichloroethane	1	21.4		0.122	4.69	
107-06-2	1,2-Dichloroethane	1	23.9		0.0997	4.69	
75-35-4	1,1-Dichloroethene	1	25.9		0.268	4.69	
156-60-5	trans-1,2-Dichloroethene	1	23.7		0.293	4.69	
78-87-5	1,2-Dichloropropane	1	18.7		0.512	4.69	
10061-01-5	cis-1,3-Dichloropropene	1	20.2		0.159	4.69	
10061-02-6	trans-1,3-Dichloropropene	1	20.3		0.159	4.69	
123-91-1	1,4-Dioxane (p-Dioxane)	1	2023	Q1	8.62	235.	
100-41-4	Ethylbenzene	1	22.0		0.110	4.69	
97-63-2	Ethyl methacrylate	1	38.7	Q1	0.471	9.39	
591-78-6	2-Hexanone	1	17.9		2.34	9.39	

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-21 (0-2)MS
Site: None
Project: MS BLUFFS/LA002656-0001
Project No.: 2066924
Sample Qu:
Lab ID: 20502698MS
Matrix: Soil
% Moisture: 18.4 Corrected
Description: None
Prep Level: Soil
Batch: 82609
Method: 8260 VOAs Low Soil MS
Units: ug/kg
Target List: 8260 MSL20
Collected: 02/15/07
Received: 02/16/07
Prep Factor: 1
Prepared: 02/23/07
Analyzed: 02/23/07 17:07 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
74-88-4	Iodomethane	1	24.8		0.307	4.69	
78-83-1	Isobutanol	1	672.		12.5	235.	
126-98-7	Methacrylonitrile	1	215.	Q1	9.81	93.9	
75-09-2	Methylene chloride	1	26.4	A11	0.351	4.69	
80-62-6	Methyl methacrylate	1	43.5		0.426	9.39	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	22.3		0.647	9.39	
107-12-0	Propionitrile	1	247.		3.11	18.8	
100-42-5	Styrene	1	14.7		0.104	4.69	
630-20-6	1,1,1,2-Tetrachloroethane	1	22.7		0.313	4.69	
79-34-5	1,1,2,2-Tetrachloroethane	1	19.2		0.182	4.69	
127-18-4	Tetrachloroethene	1	22.2		0.146	4.69	
108-88-3	Toluene	1	23.4		0.0792	4.69	
71-55-6	1,1,1-Trichloroethane	1	24.1		0.116	4.69	
79-00-5	1,1,2-Trichloroethane	1	21.1		0.154	4.69	
79-01-6	Trichloroethene	1	25.3		0.122	4.69	
75-69-4	Trichlorofluoromethane	1	33.7		0.329	4.69	
96-18-4	1,2,3-Trichloropropane	1	23.8	Q10	1.19	4.69	
95-63-6	1,2,4-Trimethylbenzene	1	21.9		0.0766	4.69	
108-67-8	1,3,5-Trimethylbenzene	1	22.8	Q1	0.114	4.69	
108-05-4	Vinyl acetate	1	42.8		0.252	9.39	
75-01-4	Vinyl chloride	1	26.7		0.196	4.69	
	m&p-Xylene	1	42.9		0.171	4.69	
95-47-6	o-Xylene	1	21.1		0.0750	4.69	

56 compound(s) reported

3/20/2007 17:19:13

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-21 (0-2)MS
Site: None
Project: MS BLUFFS/LA002656-0001
Project No.: 2066924
Sample Qu:
Lab ID: 20502698MS
Matrix: Soil
% Moisture: 18.4 Corrected
Description: None
Prep Level: Soil
Batch: 82902
Method: 8270 SVOAs Low Soil MS
Units: ug/kg
Target List: 8270 MSL20
Collected: 02/15/07
Received: 02/16/07
Prep Factor: 1
Prepared: 03/01/07
Analyzed: 03/02/07 16:23 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	736.	Q1	121.	408.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	718.		105.	408.	
100-02-7	4-Nitrophenol	1	696.		59.8	408.	
87-86-5	Pentachlorophenol	1	765.		306.	408.	

4 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-21 (0-2)MSD
Site: None
Project: MS BLUFFS/LA002656-0001
Project No.: 2066924
Sample Qu:
Lab ID: 20502698MSD
Matrix: Soil
% Moisture: 18.4 Corrected
Description: None
Prep Level: Soil
Batch: 82609
Method: 8260 VOAs Low Soil MS
Units: ug/kg
Target List: 8260 MSL20
Collected: 02/15/07
Received: 02/16/07
Prep Factor: 1
Prepared: 02/23/07
Analyzed: 02/23/07 17:29 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	48.2	A11	4.93	9.67	
75-05-8	Acetonitrile	1	408.		1.60	96.7	
107-02-8	Acrolein	1	65.3		9.62	19.3	
107-13-1	Acrylonitrile	1	58.9		2.91	19.3	
107-05-1	Allyl chloride	1	42.6		0.607	9.67	
71-43-2	Benzene	1	20.7		0.112	4.83	
75-27-4	Bromodichloromethane	1	20.3		0.149	4.83	
75-25-2	Bromoform	1	18.8		0.220	4.83	
74-83-9	Bromomethane	1	26.5		0.812	4.83	
78-93-3	2-Butanone (MEK)	1	27.5	A11	1.68	9.67	
75-15-0	Carbon disulfide	1	21.7		0.0687	4.83	
56-23-5	Carbon tetrachloride	1	27.6		0.106	4.83	
108-90-7	Chlorobenzene	1	20.0		0.122	4.83	
75-00-3	Chloroethane	1	27.0		0.262	4.83	
67-66-3	Chloroform	1	23.9		0.305	4.83	
74-87-3	Chloromethane	1	25.9		0.196	4.83	
126-99-8	Chloroprene	1	25.2		0.389	4.83	
96-12-8	1,2-Dibromo-3-chloropropane	1	21.6		1.63	4.83	
124-48-1	Dibromochloromethane	1	21.4		0.153	4.83	
106-93-4	1,2-Dibromoethane (EDB)	1	24.2		0.860	4.83	
74-95-3	Dibromomethane	1	20.4		0.446	4.83	
110-57-6	trans-1,4-Dichloro-2-butene	1	47.1		0.696	4.83	
75-34-3	1,1-Dichloroethane	1	20.9		0.126	4.83	
107-06-2	1,2-Dichloroethane	1	24.2		0.103	4.83	
75-35-4	1,1-Dichloroethene	1	26.9		0.276	4.83	
156-60-5	trans-1,2-Dichloroethene	1	24.5		0.302	4.83	
78-87-5	1,2-Dichloropropane	1	18.9		0.527	4.83	
10061-01-5	cis-1,3-Dichloropropene	1	20.6		0.163	4.83	
10061-02-6	trans-1,3-Dichloropropene	1	21.0		0.163	4.83	
123-91-1	1,4-Dioxane (p-Dioxane)	1	3468	Q1	8.88	242.	
100-41-4	Ethylbenzene	1	21.0		0.113	4.83	
97-63-2	Ethyl methacrylate	1	42.6	Q1	0.485	9.67	
591-78-6	2-Hexanone	1	21.9		2.41	9.67	

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Kansas Dept. of Health Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-21 (0-2)MSD
Site: None
Project: MS BLUFFS/LA002656-0001
Project No.: 2066924
Sample Qu:
Lab ID: 20502698MSD
Matrix: Soil
% Moisture: 18.4 Corrected
Description: None
Prep Level: Soil
Batch: 82609
Method: 8260 VOAs Low Soil MS
Units: ug/kg
Target List: 8260 MSL20
Collected: 02/15/07
Received: 02/16/07
Prep Factor: 1
Prepared: 02/23/07
Analyzed: 02/23/07 17:29 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
74-88-4	Iodomethane	1	24.6		0.316	4.83	
78-83-1	Isobutanol	1	1089		12.9	242.	
126-98-7	Methacrylonitrile	1	234.	Q1	10.1	96.7	
75-09-2	Methylene chloride	1	26.8	A11	0.362	4.83	
80-62-6	Methyl methacrylate	1	48.8		0.439	9.67	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	20.4		0.666	9.67	
107-12-0	Propionitrile	1	321.		3.20	19.3	
100-42-5	Styrene	1	19.3		0.107	4.83	
630-20-6	1,1,1,2-Tetrachloroethane	1	22.4		0.322	4.83	
79-34-5	1,1,2,2-Tetrachloroethane	1	20.2		0.187	4.83	
127-18-4	Tetrachloroethene	1	20.9		0.151	4.83	
108-88-3	Toluene	1	25.0		0.0816	4.83	
71-55-6	1,1,1-Trichloroethane	1	24.3		0.120	4.83	
79-00-5	1,1,2-Trichloroethane	1	21.6		0.158	4.83	
79-01-6	Trichloroethene	1	24.3		0.126	4.83	
75-69-4	Trichlorofluoromethane	1	34.2		0.339	4.83	
96-18-4	1,2,3-Trichloropropane	1	26.0		1.23	4.83	
95-63-6	1,2,4-Trimethylbenzene	1	20.9	Q1	0.0789	4.83	
108-67-8	1,3,5-Trimethylbenzene	1	20.8	Q1	0.118	4.83	
108-05-4	Vinyl acetate	1	43.5		0.260	9.67	
75-01-4	Vinyl chloride	1	28.5		0.202	4.83	
	m&p-Xylene	1	41.0		0.176	4.83	
95-47-6	o-Xylene	1	20.3		0.0772	4.83	

56 compound(s) reported

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-21 (0-2)MSD
Site: None
Project: MS BLUFFS/LA002656-0001
Project No.: 2066924
Sample Qu:
Lab ID: 20502698MSD
Matrix: Soil
% Moisture: 18.4 Corrected
Description: None
Prep Level: Soil
Batch: 82902
Method: 8270 SVOAs Low Soil MS
Units: ug/kg
Target List: 8270 MSL20
Collected: 02/15/07
Received: 02/16/07
Prep Factor: 1
Prepared: 03/01/07
Analyzed: 03/02/07 16:50 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	274. J	Q1	121.	408.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	638.		105.	408.	
100-02-7	4-Nitrophenol	1	633.		59.8	408.	
87-86-5	Pentachlorophenol	1	737.		306.	408.	

4 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-21 (2-4) | **Site:** None

Project: MS BLUFFS/LA002656-0001 | **Project No.:** 2066924 | **Sample Qu:**

Lab ID: 20502699 | **Matrix:** Soil | **% Moisture:** 22.6 Corrected

Description: None | **Prep Level:** Soil | **Batch:** 82609

Method: 8260 VOAs Low Soil | **Units:** ug/kg | **Target List:** 8260_SL20

Collected: 02/15/07 | **Received:** 02/16/07

Prep Factor: 1 | **Prepared:** 02/23/07 | **Analyzed:** 02/23/07 17:52 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	86.3	A11	5.26	10.3	
75-05-8	Acetonitrile	1	ND		1.71	103.	
107-02-8	Acrolein	1	ND		10.3	20.7	
107-13-1	Acrylonitrile	1	ND		3.11	20.7	
107-05-1	Allyl chloride	1	ND		0.649	10.3	
71-43-2	Benzene	1	ND		0.120	5.16	
75-27-4	Bromodichloromethane	1	ND		0.160	5.16	
75-25-2	Bromoform	1	ND		0.235	5.16	
74-83-9	Bromomethane	1	ND		0.867	5.16	
78-93-3	2-Butanone (MEK)	1	10.5	A11	1.80	10.3	
75-15-0	Carbon disulfide	1	ND		0.0734	5.16	
56-23-5	Carbon tetrachloride	1	ND		0.113	5.16	
108-90-7	Chlorobenzene	1	ND		0.130	5.16	
75-00-3	Chloroethane	1	ND		0.280	5.16	
67-66-3	Chloroform	1	ND		0.326	5.16	
74-87-3	Chloromethane	1	ND		0.209	5.16	
126-99-8	Chloroprene	1	ND		0.415	5.16	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.74	5.16	
124-48-1	Dibromochloromethane	1	ND		0.164	5.16	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.919	5.16	
74-95-3	Dibromomethane	1	ND		0.476	5.16	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		0.744	5.16	
75-71-8	Dichlorodifluoromethane	1	ND		0.261	5.16	
75-34-3	1,1-Dichloroethane	1	ND		0.134	5.16	
107-06-2	1,2-Dichloroethane	1	ND		0.110	5.16	
75-35-4	1,1-Dichloroethene	1	ND		0.295	5.16	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.322	5.16	
78-87-5	1,2-Dichloropropane	1	ND		0.564	5.16	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.174	5.16	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.174	5.16	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		9.48	258.	
100-41-4	Ethylbenzene	1	ND		0.121	5.16	
97-63-2	Ethyl methacrylate	1	ND		0.518	10.3	

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-21 (2-4) **Site:** None

Project: MS BLUFFS/LA002656-0001 **Project No.:** 2066924 **Sample Qu:**

Lab ID: 20502699 **Matrix:** Soil **% Moisture:** 22.6 Corrected

Description: None **Prep Level:** Soil **Batch:** 82609

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/15/07 **Received:** 02/16/07

Prep Factor: 1 **Prepared:** 02/23/07 **Analyzed:** 02/23/07 17:52 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		2.58	10.3	
74-88-4	Iodomethane	1	ND		0.338	5.16	
78-83-1	Isobutanol	1	ND		13.7	258.	
126-98-7	Methacrylonitrile	1	ND		10.8	103.	
75-09-2	Methylene chloride	1	ND	A11	0.387	5.16	
80-62-6	Methyl methacrylate	1	ND		0.469	10.3	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.712	10.3	
107-12-0	Propionitrile	1	ND		3.42	20.7	
100-42-5	Styrene	1	ND		0.114	5.16	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.344	5.16	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.200	5.16	
127-18-4	Tetrachloroethene	1	ND		0.161	5.16	
108-88-3	Toluene	1	ND		0.0872	5.16	
71-55-6	1,1,1-Trichloroethane	1	ND		0.128	5.16	
79-00-5	1,1,2-Trichloroethane	1	ND		0.169	5.16	
79-01-6	Trichloroethene	1	ND		0.135	5.16	
75-69-4	Trichlorofluoromethane	1	ND		0.363	5.16	
96-18-4	1,2,3-Trichloropropane	1	ND		1.31	5.16	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0843	5.16	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.126	5.16	
108-05-4	Vinyl acetate	1	ND		0.278	10.3	
75-01-4	Vinyl chloride	1	ND		0.216	5.16	
	m&p-Xylene	1	ND		0.188	5.16	
95-47-6	o-Xylene	1	ND		0.0825	5.16	

57 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-21 (2-4) **Site:** None

Project: MS BLUFFS/LA002656-0001 **Project No.:** 2066924 **Sample Qu:**

Lab ID: 20502699 **Matrix:** Soil **% Moisture:** 22.6 Corrected

Description: None **Prep Level:** Soil **Batch:** 82902

Method: 8270 SVOAs Low Soil **Units:** ug/kg **Target List:** 8270_SL20

Collected: 02/15/07 **Received:** 02/16/07

Prep Factor: 1 **Prepared:** 03/01/07 **Analyzed:** 03/02/07 21:01 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		127.	430.	
1912-24-9	Atrazine	1	ND			430.	
21725-46-2	Cyanazine	1	ND			430.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		111.	430.	
100-02-7	4-Nitrophenol	1	ND		63.0	430.	
87-86-5	Pentachlorophenol	1	ND		323.	430.	

6 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-DUP-03 **Site:** None

Project: MS BLUFFS/LA002656-0001 **Project No.:** 2066924 **Sample Qu:**

Lab ID: 20502700 **Matrix:** Soil **% Moisture:** 19.7 Corrected

Description: None **Prep Level:** Soil **Batch:** 82609

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/15/07 **Received:** 02/16/07

Prep Factor: 1 **Prepared:** 02/23/07 **Analyzed:** 02/23/07 18:15 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	109.	A11	5.23	10.3	
75-05-8	Acetonitrile	1	ND		1.70	103.	
107-02-8	Acrolein	1	ND		10.2	20.5	
107-13-1	Acrylonitrile	1	ND		3.09	20.5	
107-05-1	Allyl chloride	1	ND		0.644	10.3	
71-43-2	Benzene	1	ND		0.119	5.13	
75-27-4	Bromodichloromethane	1	ND		0.159	5.13	
75-25-2	Bromoform	1	ND		0.233	5.13	
74-83-9	Bromomethane	1	ND		0.861	5.13	
78-93-3	2-Butanone (MEK)	1	11.3	A11	1.78	10.3	
75-15-0	Carbon disulfide	1	ND		0.0729	5.13	
56-23-5	Carbon tetrachloride	1	ND		0.112	5.13	
108-90-7	Chlorobenzene	1	ND		0.129	5.13	
75-00-3	Chloroethane	1	ND		0.278	5.13	
67-66-3	Chloroform	1	ND		0.323	5.13	
74-87-3	Chloromethane	1	ND		0.208	5.13	
126-99-8	Chloroprene	1	ND		0.412	5.13	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.73	5.13	
124-48-1	Dibromochloromethane	1	ND		0.163	5.13	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.913	5.13	
74-95-3	Dibromomethane	1	ND		0.473	5.13	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		0.738	5.13	
75-71-8	Dichlorodifluoromethane	1	ND		0.259	5.13	
75-34-3	1,1-Dichloroethane	1	ND		0.133	5.13	
107-06-2	1,2-Dichloroethane	1	ND		0.109	5.13	
75-35-4	1,1-Dichloroethene	1	ND		0.293	5.13	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.320	5.13	
78-87-5	1,2-Dichloropropane	1	ND		0.559	5.13	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.173	5.13	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.173	5.13	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		9.41	256.	
100-41-4	Ethylbenzene	1	ND		0.120	5.13	
97-63-2	Ethyl methacrylate	1	ND		0.514	10.3	

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-DUP-03 **Site:** None

Project: MS BLUFFS/LA002656-0001 **Project No.:** 2066924 **Sample Qu:**

Lab ID: 20502700 **Matrix:** Soil **% Moisture:** 19.7 Corrected

Description: None **Prep Level:** Soil **Batch:** 82609

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 02/15/07 **Received:** 02/16/07

Prep Factor: 1 **Prepared:** 02/23/07 **Analyzed:** 02/23/07 18:15 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		2.56	10.3	
74-88-4	Iodomethane	1	ND		0.335	5.13	
78-83-1	Isobutanol	1	ND		13.6	256.	
126-98-7	Methacrylonitrile	1	ND		10.7	103.	
75-09-2	Methylene chloride	1	ND	A11	0.384	5.13	
80-62-6	Methyl methacrylate	1	ND		0.466	10.3	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.707	10.3	
107-12-0	Propionitrile	1	ND		3.39	20.5	
100-42-5	Styrene	1	ND		0.113	5.13	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.341	5.13	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.198	5.13	
127-18-4	Tetrachloroethene	1	ND		0.160	5.13	
108-88-3	Toluene	1	ND		0.0865	5.13	
71-55-6	1,1,1-Trichloroethane	1	ND		0.127	5.13	
79-00-5	1,1,2-Trichloroethane	1	ND		0.168	5.13	
79-01-6	Trichloroethene	1	ND		0.134	5.13	
75-69-4	Trichlorofluoromethane	1	ND		0.360	5.13	
96-18-4	1,2,3-Trichloropropane	1	ND		1.31	5.13	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0837	5.13	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.125	5.13	
108-05-4	Vinyl acetate	1	ND		0.276	10.3	
75-01-4	Vinyl chloride	1	ND		0.214	5.13	
	m&p-Xylene	1	ND		0.187	5.13	
95-47-6	o-Xylene	1	ND		0.0819	5.13	

57 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-DUP-03 **Site:** None

Project: MS BLUFFS/LA002656-0001 **Project No.:** 2066924 **Sample Qu:**

Lab ID: 20502700 **Matrix:** Soil **% Moisture:** 19.7 Corrected

Description: None **Prep Level:** Soil **Batch:** 82902

Method: 8270 SVOAs Low Soil **Units:** ug/kg **Target List:** 8270_SL20

Collected: 02/15/07 **Received:** 02/16/07

Prep Factor: 1 **Prepared:** 03/01/07 **Analyzed:** 03/02/07 21:30 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		123.	414.	
1912-24-9	Atrazine	1	ND			414.	
21725-46-2	Cyanazine	1	ND			414.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		107.	414.	
100-02-7	4-Nitrophenol	1	ND		60.7	414.	
87-86-5	Pentachlorophenol	1	ND		311.	414.	

6 compound(s) reported

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: TB-GP-SB-03 **Site:** None

Project: MS BLUFFS/LA002656-0001 **Project No.:** 2066924 **Sample Qu:**

Lab ID: 20502702 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82583

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/15/07 **Received:** 02/16/07

Prep Factor: 1 **Prepared:** 02/21/07 **Analyzed:** 02/21/07 16:11 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: TB-GP-SB-03 **Site:** None

Project: MS BLUFFS/LA002656-0001 **Project No.:** 2066924 **Sample Qu:**

Lab ID: 20502702 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82583

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/15/07 **Received:** 02/16/07

Prep Factor: 1 **Prepared:** 02/21/07 **Analyzed:** 02/21/07 16:11 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	ND	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-FB-03 **Site:** None

Project: MS BLUFFS/LA002656-0001 **Project No.:** 2066924 **Sample Qu:**

Lab ID: 20502703 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82583

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/15/07 **Received:** 02/16/07

Prep Factor: 1 **Prepared:** 02/21/07 **Analyzed:** 02/21/07 16:30 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-FB-03 | **Site:** None

Project: MS BLUFFS/LA002656-0001 | **Project No.:** 2066924 | **Sample Qu:**

Lab ID: 20502703 | **Matrix:** Water | **% Moisture:** n/a

Description: None | **Prep Level:** Water | **Batch:** 82583

Method: 8260 VOAs Water | **Units:** ug/L | **Target List:** 8260_WL20

Collected: 02/15/07 | **Received:** 02/16/07

Prep Factor: 1 | **Prepared:** 02/21/07 | **Analyzed:** 02/21/07 16:30 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	ND	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-RB-03
Site: None
Project: MS BLUFFS/LA002656-0001
Project No.: 2066924
Sample Qu:
Lab ID: 20502704
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 82583
Method: 8260 VOAs Water
Units: ug/L
Target List: 8260_WL20
Collected: 02/15/07
Received: 02/16/07
Prep Factor: 1
Prepared: 02/21/07
Analyzed: 02/21/07 16:49 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	8.50	J A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-RB-03 **Site:** None

Project: MS BLUFFS/LA002656-0001 **Project No.:** 2066924 **Sample Qu:**

Lab ID: 20502704 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82583

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 02/15/07 **Received:** 02/16/07

Prep Factor: 1 **Prepared:** 02/21/07 **Analyzed:** 02/21/07 16:49 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	ND	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	5.00	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-RB-03 **Site:** None

Project: MS BLUFFS/LA002656-0001 **Project No.:** 2066924 **Sample Qu:**

Lab ID: 20502704 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82564

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 02/15/07 **Received:** 02/16/07

Prep Factor: 1 **Prepared:** 02/21/07 **Analyzed:** 03/02/07 17:46 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		1.42	10.0	
1912-24-9	Atrazine	1	ND			10.0	
21725-46-2	Cyanazine	1	ND			10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		8.62	10.0	
100-02-7	4-Nitrophenol	1	ND		1.33	10.0	
87-86-5	Pentachlorophenol	1	ND		1.37	10.0	

6 compound(s) reported

3/20/2007 17:19:16

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-18 (0-2) **Site:** None

Project: MS BLUFFS/LA002656-0001 **Project No.:** 2066924 **Sample Qu:**

Lab ID: 20502692 **Matrix:** Soil **% Moisture:** 19.7 Corrected

Description: None **Prep Level:** Soil **Batch:** 82794

Method: 8081 Pests Low Soil **Units:** ug/kg **Target List:** 8081_SL20

Collected: 02/15/07 **Received:** 02/16/07

Prep Factor: 1 **Prepared:** 02/27/07 **Analyzed:** 03/01/07 18:59 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		11.6	83.0	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-18 (0-2) **Site:** None

Project: MS BLUFFS/LA002656-0001 **Project No.:** 2066924 **Sample Qu:**

Lab ID: 20502692 **Matrix:** Soil **% Moisture:** 19.7 Corrected

Description: None **Prep Level:** Soil **Batch:** 82846

Method: 8151 Herbs Low Soil **Units:** ug/kg **Target List:** 8151_SL20

Collected: 02/15/07 **Received:** 02/16/07

Prep Factor: 1 **Prepared:** 02/28/07 **Analyzed:** 03/16/07 23:52 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND		13.8	49.8	

1 compound(s) reported

3/20/2007 17:19:19

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-18 (2-4) **Site:** None

Project: MS BLUFFS/LA002656-0001 **Project No.:** 2066924 **Sample Qu:**

Lab ID: 20502693 **Matrix:** Soil **% Moisture:** 19.9 Corrected

Description: None **Prep Level:** Soil **Batch:** 82794

Method: 8081 Pests Low Soil **Units:** ug/kg **Target List:** 8081_SL20

Collected: 02/15/07 **Received:** 02/16/07

Prep Factor: 1 **Prepared:** 02/27/07 **Analyzed:** 03/01/07 19:16 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		11.7	83.3	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-18 (2-4) **Site:** None

Project: MS BLUFFS/LA002656-0001 **Project No.:** 2066924 **Sample Qu:**

Lab ID: 20502693 **Matrix:** Soil **% Moisture:** 19.9 Corrected

Description: None **Prep Level:** Soil **Batch:** 82846

Method: 8151 Herbs Low Soil **Units:** ug/kg **Target List:** 8151_SL20

Collected: 02/15/07 **Received:** 02/16/07

Prep Factor: 1 **Prepared:** 02/28/07 **Analyzed:** 03/17/07 01:14 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND		13.8	49.9	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-19 (0-2) **Site:** None

Project: MS BLUFFS/LA002656-0001 **Project No.:** 2066924 **Sample Qu:**

Lab ID: 20502694 **Matrix:** Soil **% Moisture:** 16.7 Corrected

Description: None **Prep Level:** Soil **Batch:** 82794

Method: 8081 Pests Low Soil **Units:** ug/kg **Target List:** 8081_SL20

Collected: 02/15/07 **Received:** 02/16/07

Prep Factor: 1 **Prepared:** 02/27/07 **Analyzed:** 03/01/07 19:32 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		11.2	80.1	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-19 (0-2) | **Site:** None

Project: MS BLUFFS/LA002656-0001 | **Project No.:** 2066924 | **Sample Qu:**

Lab ID: 20502694 | **Matrix:** Soil | **% Moisture:** 16.7 Corrected

Description: None | **Prep Level:** Soil | **Batch:** 82846

Method: 8151 Herbs Low Soil | **Units:** ug/kg | **Target List:** 8151_SL20

Collected: 02/15/07 | **Received:** 02/16/07

Prep Factor: 1 | **Prepared:** 02/28/07 | **Analyzed:** 03/16/07 10:25 SRA (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND	N	13.3	48.0	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-19 (0-2) **Site:** None

Project: MS BLUFFS/LA002656-0001 **Project No.:** 2066924 **Sample Qu:**

Lab ID: 20502694RE1 **Matrix:** Soil **% Moisture:** 16.7 Corrected

Description: None **Prep Level:** Soil **Batch:** 83529

Method: 8151 Herbs Low Soil **Units:** ug/kg **Target List:** 8151_SL20

Collected: 02/15/07 **Received:** 02/16/07

Prep Factor: 1 **Prepared:** 03/16/07 **Analyzed:** 03/19/07 19:02 SRA (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND	N	13.3	48.0	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-19 (2-4) **Site:** None

Project: MS BLUFFS/LA002656-0001 **Project No.:** 2066924 **Sample Qu:**

Lab ID: 20502695 **Matrix:** Soil **% Moisture:** 19.8 Corrected

Description: None **Prep Level:** Soil **Batch:** 82794

Method: 8081 Pests Low Soil **Units:** ug/kg **Target List:** 8081_SL20

Collected: 02/15/07 **Received:** 02/16/07

Prep Factor: 1 **Prepared:** 02/27/07 **Analyzed:** 03/01/07 19:49 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND	N	11.6	83.2	

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-19 (2-4) **Site:** None

Project: MS BLUFFS/LA002656-0001 **Project No.:** 2066924 **Sample Qu:**

Lab ID: 20502695RE1 **Matrix:** Soil **% Moisture:** 19.8 Corrected

Description: None **Prep Level:** Soil **Batch:** 83257

Method: 8081 Pests Low Soil **Units:** ug/kg **Target List:** 8081_SL20

Collected: 02/15/07 **Received:** 02/16/07

Prep Factor: 1 **Prepared:** 03/08/07 **Analyzed:** 03/09/07 16:51 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND	N	11.6	83.2	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-19 (2-4) **Site:** None

Project: MS BLUFFS/LA002656-0001 **Project No.:** 2066924 **Sample Qu:**

Lab ID: 20502695RE2 **Matrix:** Soil **% Moisture:** 19.8 Corrected

Description: None **Prep Level:** Soil **Batch:** 82846

Method: 8151 Herbs Low Soil **Units:** ug/kg **Target List:** 8151_SL20

Collected: 02/15/07 **Received:** 02/16/07

Prep Factor: 1 **Prepared:** 02/28/07 **Analyzed:** 03/16/07 10:25 SRA (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND	N	13.8	49.9	

1 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-19 (2-4) **Site:** None

Project: MS BLUFFS/LA002656-0001 **Project No.:** 2066924 **Sample Qu:**

Lab ID: 20502695RE3 **Matrix:** Soil **% Moisture:** 19.8 Corrected

Description: None **Prep Level:** Soil **Batch:** 83529

Method: 8151 Herbs Low Soil **Units:** ug/kg **Target List:** 8151_SL20

Collected: 02/15/07 **Received:** 02/16/07

Prep Factor: 1 **Prepared:** 03/16/07 **Analyzed:** 03/19/07 19:29 SRA (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND	N	13.8	49.9	

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-20 (0-2) **Site:** None

Project: MS BLUFFS/LA002656-0001 **Project No.:** 2066924 **Sample Qu:**

Lab ID: 20502696 **Matrix:** Soil **% Moisture:** 16.3 Corrected

Description: None **Prep Level:** Soil **Batch:** 82794

Method: 8081 Pests Low Soil **Units:** ug/kg **Target List:** 8081_SL20

Collected: 02/15/07 **Received:** 02/16/07

Prep Factor: 1 **Prepared:** 02/27/07 **Analyzed:** 03/01/07 20:05 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		11.2	79.7	

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
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For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-20 (0-2) | **Site:** None

Project: MS BLUFFS/LA002656-0001 | **Project No.:** 2066924 | **Sample Qu:**

Lab ID: 20502696 | **Matrix:** Soil | **% Moisture:** 16.3 Corrected

Description: None | **Prep Level:** Soil | **Batch:** 82846

Method: 8151 Herbs Low Soil | **Units:** ug/kg | **Target List:** 8151_SL20

Collected: 02/15/07 | **Received:** 02/16/07

Prep Factor: 1 | **Prepared:** 02/28/07 | **Analyzed:** 03/16/07 10:25 SRA (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND	N	13.2	47.8	

1 compound(s) reported

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DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-20 (0-2) **Site:** None

Project: MS BLUFFS/LA002656-0001 **Project No.:** 2066924 **Sample Qu:**

Lab ID: 20502696RE1 **Matrix:** Soil **% Moisture:** 16.3 Corrected

Description: None **Prep Level:** Soil **Batch:** 83529

Method: 8151 Herbs Low Soil **Units:** ug/kg **Target List:** 8151_SL20

Collected: 02/15/07 **Received:** 02/16/07

Prep Factor: 1 **Prepared:** 03/16/07 **Analyzed:** 03/19/07 19:56 SRA (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND	N	13.2	47.8	

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-20 (2-4) **Site:** None

Project: MS BLUFFS/LA002656-0001 **Project No.:** 2066924 **Sample Qu:**

Lab ID: 20502697 **Matrix:** Soil **% Moisture:** 20.4 Corrected

Description: None **Prep Level:** Soil **Batch:** 82794

Method: 8081 Pests Low Soil **Units:** ug/kg **Target List:** 8081_SL20

Collected: 02/15/07 **Received:** 02/16/07

Prep Factor: 1 **Prepared:** 02/27/07 **Analyzed:** 03/06/07 20:42 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		11.7	83.8	

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-20 (2-4) | **Site:** None

Project: MS BLUFFS/LA002656-0001 | **Project No.:** 2066924 | **Sample Qu:**

Lab ID: 20502697 | **Matrix:** Soil | **% Moisture:** 20.4 Corrected

Description: None | **Prep Level:** Soil | **Batch:** 82846

Method: 8151 Herbs Low Soil | **Units:** ug/kg | **Target List:** 8151_SL20

Collected: 02/15/07 | **Received:** 02/16/07

Prep Factor: 1 | **Prepared:** 02/28/07 | **Analyzed:** 03/16/07 10:25 SRA (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND	N	13.9	50.2	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-20 (2-4) **Site:** None

Project: MS BLUFFS/LA002656-0001 **Project No.:** 2066924 **Sample Qu:**

Lab ID: 20502697RE1 **Matrix:** Soil **% Moisture:** 20.4 Corrected

Description: None **Prep Level:** Soil **Batch:** 83529

Method: 8151 Herbs Low Soil **Units:** ug/kg **Target List:** 8151_SL20

Collected: 02/15/07 **Received:** 02/16/07

Prep Factor: 1 **Prepared:** 03/16/07 **Analyzed:** 03/19/07 20:24 SRA (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND	N	13.9	50.2	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-21 (0-2) **Site:** None

Project: MS BLUFFS/LA002656-0001 **Project No.:** 2066924 **Sample Qu:**

Lab ID: 20502698 **Matrix:** Soil **% Moisture:** 18.4 Corrected

Description: None **Prep Level:** Soil **Batch:** 82901

Method: 8081 Pests Low Soil **Units:** ug/kg **Target List:** 8081_SL20

Collected: 02/15/07 **Received:** 02/16/07

Prep Factor: 1 **Prepared:** 03/01/07 **Analyzed:** 03/09/07 19:19 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		11.4	81.8	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-21 (0-2) | **Site:** None

Project: MS BLUFFS/LA002656-0001 | **Project No.:** 2066924 | **Sample Qu:**

Lab ID: 20502698 | **Matrix:** Soil | **% Moisture:** 18.4 Corrected

Description: None | **Prep Level:** Soil | **Batch:** 82900

Method: 8151 Herbs Low Soil | **Units:** ug/kg | **Target List:** 8151_SL20

Collected: 02/15/07 | **Received:** 02/16/07

Prep Factor: 1 | **Prepared:** 03/01/07 | **Analyzed:** 03/15/07 21:31 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND	N	13.6	49.0	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-21 (0-2)MS
Site: None
Project: MS BLUFFS/LA002656-0001
Project No.: 2066924
Sample Qu:
Lab ID: 20502698MS
Matrix: Soil
% Moisture: 18.4 Corrected
Description: None
Prep Level: Soil
Batch: 82900
Method: 8151 Herbs Low Soil MS
Units: ug/kg
Target List: 8151 MSL20
Collected: 02/15/07
Received: 02/16/07
Prep Factor: 1
Prepared: 03/01/07
Analyzed: 03/17/07 08:31 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	251.		13.6	49.0	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-21 (0-2)MSD
Site: None
Project: MS BLUFFS/LA002656-0001
Project No.: 2066924
Sample Qu:
Lab ID: 20502698MSD
Matrix: Soil
% Moisture: 18.4 Corrected
Description: None
Prep Level: Soil
Batch: 82900
Method: 8151 Herbs Low Soil MS
Units: ug/kg
Target List: 8151 MSL20
Collected: 02/15/07
Received: 02/16/07
Prep Factor: 1
Prepared: 03/01/07
Analyzed: 03/17/07 08:59 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	219.		13.6	49.0	

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-21 (2-4) **Site:** None

Project: MS BLUFFS/LA002656-0001 **Project No.:** 2066924 **Sample Qu:**

Lab ID: 20502699 **Matrix:** Soil **% Moisture:** 22.6 Corrected

Description: None **Prep Level:** Soil **Batch:** 82901

Method: 8081 Pests Low Soil **Units:** ug/kg **Target List:** 8081_SL20

Collected: 02/15/07 **Received:** 02/16/07

Prep Factor: 1 **Prepared:** 03/01/07 **Analyzed:** 03/09/07 20:09 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		12.1	86.1	

1 compound(s) reported

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DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-21 (2-4) | **Site:** None

Project: MS BLUFFS/LA002656-0001 | **Project No.:** 2066924 | **Sample Qu:**

Lab ID: 20502699 | **Matrix:** Soil | **% Moisture:** 22.6 Corrected

Description: None | **Prep Level:** Soil | **Batch:** 82846

Method: 8151 Herbs Low Soil | **Units:** ug/kg | **Target List:** 8151_SL20

Collected: 02/15/07 | **Received:** 02/16/07

Prep Factor: 1 | **Prepared:** 02/28/07 | **Analyzed:** 03/17/07 03:30 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND		14.3	51.6	

1 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-DUP-03 **Site:** None

Project: MS BLUFFS/LA002656-0001 **Project No.:** 2066924 **Sample Qu:**

Lab ID: 20502700 **Matrix:** Soil **% Moisture:** 19.7 Corrected

Description: None **Prep Level:** Soil **Batch:** 82901

Method: 8081 Pests Low Soil **Units:** ug/kg **Target List:** 8081_SL20

Collected: 02/15/07 **Received:** 02/16/07

Prep Factor: 1 **Prepared:** 03/01/07 **Analyzed:** 03/12/07 20:48 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		11.6	83.0	

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit denotes an actual regulatory limit or a client-requested notification limit.
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-DUP-03 **Site:** None

Project: MS BLUFFS/LA002656-0001 **Project No.:** 2066924 **Sample Qu:**

Lab ID: 20502700 **Matrix:** Soil **% Moisture:** 19.7 Corrected

Description: None **Prep Level:** Soil **Batch:** 82900

Method: 8151 Herbs Low Soil **Units:** ug/kg **Target List:** 8151_SL20

Collected: 02/15/07 **Received:** 02/16/07

Prep Factor: 1 **Prepared:** 03/01/07 **Analyzed:** 03/15/07 22:53 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND	N	13.8	49.8	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-RB-03 **Site:** None

Project: MS BLUFFS/LA002656-0001 **Project No.:** 2066924 **Sample Qu:**

Lab ID: 20502704 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82271

Method: 8081 Pests Water **Units:** ug/L **Target List:** 8081_WL20

Collected: 02/15/07 **Received:** 02/16/07

Prep Factor: 1 **Prepared:** 02/19/07 **Analyzed:** 03/05/07 19:55 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND			2.00	

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-RB-03 **Site:** None

Project: MS BLUFFS/LA002656-0001 **Project No.:** 2066924 **Sample Qu:**

Lab ID: 20502704 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 82528

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 02/15/07 **Received:** 02/16/07

Prep Factor: 1 **Prepared:** 02/22/07 **Analyzed:** 02/28/07 11:50 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND	N	0.224	2.00	

1 compound(s) reported

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Client ID: GP-SB-17 (0-2)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656-0001
Site: None
Lab ID: 20502690
Project No.: 2066924
Description: None
Matrix: Soil
%Moisture: 20.2 Corrected
Collected: 02/15/07
Received: 02/16/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82643	1	ND		mg/kg	0.533	1.14	02/23	02/28 00:50	KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Client ID: GP-SB-17 (2-4)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656-0001
Site: None
Lab ID: 20502691
Project No.: 2066924
Description: None
Matrix: Soil
%Moisture: 20 Corrected
Collected: 02/15/07
Received: 02/16/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
Arsenic	EPA 6010	82643	1	ND		mg/kg	0.464	0.992	02/23	02/28 00:54 KJR (1)	

1 parameter(s) reported

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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Client ID: GP-SB-18 (0-2)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656-0001
Site: None
Lab ID: 20502692
Project No.: 2066924
Description: None
Matrix: Soil
%Moisture: 19.7 Corrected
Collected: 02/15/07
Received: 02/16/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82643	1	ND		mg/kg	0.388	0.830	02/23	02/28 01:00	KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Client ID: GP-SB-18 (2-4)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656-0001
Site: None
Lab ID: 20502693
Project No.: 2066924
Description: None
Matrix: Soil
%Moisture: 19.9 Corrected
Collected: 02/15/07
Received: 02/16/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82643	1	ND		mg/kg	0.471	1.01	02/23	02/28 01:05	KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Client ID: GP-SB-19 (0-2)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656-0001
Site: None
Lab ID: 20502694
Project No.: 2066924
Description: None
Matrix: Soil
%Moisture: 16.7 Corrected
Collected: 02/15/07
Received: 02/16/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82643	1	ND		mg/kg	0.540	1.15	02/23	02/28 01:11	KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
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(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Client ID: GP-SB-19 (2-4)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656-0001
Site: None
Lab ID: 20502695
Project No.: 2066924
Description: None
Matrix: Soil
%Moisture: 19.8 Corrected
Collected: 02/15/07
Received: 02/16/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
Arsenic	EPA 6010	82643	1	4.07		mg/kg	0.494	1.06	02/23	02/28 01:16 KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Client ID: GP-SB-20 (0-2)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656-0001
Site: None
Lab ID: 20502696
Project No.: 2066924
Description: None
Matrix: Soil
%Moisture: 16.3 Corrected
Collected: 02/15/07
Received: 02/16/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82643	1	1.61		mg/kg	0.537	1.15	02/23	02/28 01:21	KJR (1)	

1 parameter(s) reported

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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
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Client ID: GP-SB-20 (2-4)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656-0001
Site: None
Lab ID: 20502697
Project No.: 2066924
Description: None
Matrix: Soil
%Moisture: 20.4 Corrected
Collected: 02/15/07
Received: 02/16/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
Arsenic	EPA 6010	82643	1	2.68		mg/kg	0.564	1.21	02/23	02/28 01:26 KJR (1)	

1 parameter(s) reported

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Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
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Client ID: GP-SB-21 (0-2)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656-0001
Site: None
Lab ID: 20502698
Project No.: 2066924
Description: None
Matrix: Soil
%Moisture: 18.4 Corrected
Collected: 02/15/07
Received: 02/16/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
Arsenic	EPA 6010	82643	1	0.597	J	mg/kg	0.494	1.06	02/23	02/28 00:20 KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
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LELAP # 02006

Client ID: GP-SB-21 (0-2)MS
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656-0001
Site: None
Lab ID: 20502698MS
Project No.: 2066924
Description: None
Matrix: Soil
%Moisture: 18.4 Corrected
Collected: 02/15/07
Received: 02/16/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
Arsenic	EPA 6010	82643	1	113.		mg/kg	0.551	1.18	02/23	02/28 00:25 KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
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(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
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Client ID: GP-SB-21 (0-2)MSD
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656-0001
Site: None
Lab ID: 20502698MSD
Project No.: 2066924
Description: None
Matrix: Soil
%Moisture: 18.4 Corrected
Collected: 02/15/07
Received: 02/16/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
Arsenic	EPA 6010	82643	1	107.		mg/kg	0.531	1.13	02/23	02/28 00:30 KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/20/2007 17:19:26

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Louisiana Dept. of Environmental Quality (LELAP) - 02006
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Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: GP-SB-21 (2-4)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656-0001
Site: None
Lab ID: 20502699
Project No.: 2066924
Description: None
Matrix: Soil
%Moisture: 22.6 Corrected
Collected: 02/15/07
Received: 02/16/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82643	1	ND		mg/kg	0.592	1.27	02/23	02/28 01:32	KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Phone: 504.469.0333
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LELAP # 02006

Client ID: GP-SB-DUP-03
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656-0001
Site: None
Lab ID: 20502700
Project No.: 2066924
Description: None
Matrix: Soil
%Moisture: 19.7 Corrected
Collected: 02/15/07
Received: 02/16/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
Arsenic	EPA 6010	82643	1	ND		mg/kg	0.559	1.20	02/23	02/28 01:37 KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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LELAP # 02006

Client ID: GP-SB-RB-03
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656-0001
Site: None
Lab ID: 20502704
Project No.: 2066924
Description: None
Matrix: Water
%Moisture: n/a
Collected: 02/15/07
Received: 02/16/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
Arsenic	EPA 6010	82574	1	ND		ug/L	6.05	10.0	02/21	03/05 15:18 KJR (1)	

1 parameter(s) reported

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ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Report of Quality Control

Pace Analytical Services, Inc.
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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Method: EPA 8260 **Project:** 2066924 **LCS:** 20502885 2/23/2007 5:23:00 PM

Batch: 82551 **MS:** 20502886 2/23/2007 8:54:00 PM

Units: ug/kg **Original for MS:** 20502391 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Acetone	50	36.75		74			46.02	0.00	61.78	35.64	134	73	54 *	11 - 166	10 - 183	20	A11
Acetonitrile	550	854.1		155			506.2	0.00	596.6	670.4	118	125	12	22 - 198	50 - 150	20	
Acrolein	100	49.36		49			92.04	0.00	63.38	55.25	69	57	14	10 - 150	10 - 147	20	
Acrylonitrile	150	115.5		77			138.1	0.00	97.93	95.65	71	65	2	10 - 150	10 - 150	20	
Allyl chloride	100	85.71		86			92.04	0.00	60.9	68.53	66	70	12	32 - 170	10 - 163	20	
Benzene	50	41.76		84			46.02	2.32	29	32.5	58	62	11	65 - 136	33 - 143	20	
Bromodichloromethane	50	40.55		81			46.02	0.00	26.12	32.2	57	66	21 *	56 - 157	14 - 155	20	
Bromoform	50	55.1		110			46.02	0.00	31.82	44.14	69	90	32 *	46 - 156	10 - 152	20	
Bromomethane	50	31.12		62			46.02	0.00	15.39	22.16	33	45	36 *	41 - 159	14 - 162	20	
2-Butanone (MEK)	50	40.28		81			46.02	0.00	62.68	43.44	136	89	36 *	17 - 164	10 - 166	20	A11
Carbon disulfide	50	37.95		76			46.02	0.00	27.76	30.6	60	63	10	38 - 150	14 - 148	20	
Carbon tetrachloride	50	45.28		91			46.02	0.00	30.72	34.81	67	71	12	44 - 166	17 - 160	20	
Chlorobenzene	50	52.68		105			46.02	0.00	29.22	36.15	64	74	21 *	65 - 134	14 - 145	20	
Chloroethane	50	51.99		104			46.02	0.00	30.06	38.85	65	79	26 *	34 - 166	28 - 158	20	
Chloroform	50	47.42		95			46.02	0.00	32.52	38.74	71	79	17	68 - 134	35 - 141	20	
Chloromethane	50	56.22		112			46.02	0.00	39.09	45.41	85	93	15	21 - 152	10 - 158	20	
Chloroprene	50	49.8		100			46.02	0.00	35.59	39.18	77	80	10	47 - 143	10 - 148	20	
1,2-Dibromo-3-chloropropa	50	43.72		87			46.02	0.00	25.16	33.28	55	68	28 *	23 - 147	10 - 147	20	
Dibromochloromethane	50	50.04		100			46.02	0.00	29.66	38.48	64	79	26 *	53 - 150	10 - 153	20	
1,2-Dibromoethane (EDB)	50	49.31		99			46.02	0.00	34.65	44.55	75	91	25 *	47 - 152	10 - 139	20	
Dibromomethane	50	42.33		85			46.02	0.00	28.89	36.53	63	75	23 *	55 - 153	34 - 145	20	
trans-1,4-Dichloro-2-butene	100	89.24		89			92.04	0.00	50.3	61.98	55	63	21 *	11 - 161	10 - 157	20	
1,1-Dichloroethane	50	44.93		90			46.02	0.00	31.42	36.53	68	75	15	61 - 135	36 - 141	20	
1,2-Dichloroethane	50	41.7		83			46.02	0.00	28.05	33.91	61	69	19	46 - 162	15 - 158	20	
1,1-Dichloroethene	50	48.99		98			46.02	0.00	35.34	39.11	77	80	10	50 - 144	31 - 149	20	
trans-1,2-Dichloroethene	50	49.02		98			46.02	0.00	34.43	38.41	75	79	11	56 - 138	29 - 142	20	
1,2-Dichloropropane	50	41.2		82			46.02	0.00	27.13	32.03	59	66	17	64 - 136	28 - 141	20	
cis-1,3-Dichloropropene	50	43.86		88			46.02	0.00	27.32	34.51	59	71	23 *	58 - 142	10 - 145	20	
trans-1,3-Dichloropropene	50	41.76		84			46.02	0.00	26.83	33.82	58	69	23 *	47 - 152	10 - 149	20	
1,4-Dioxane (p-Dioxane)	1050	1060		101			966.4	0.00	3648	2295	377 *	223 *	46 *	24 - 168	10 - 193	20	Q1
Ethylbenzene	50	48.18		96			46.02	2.21	28.41	34.53	57	66	19	62 - 134	11 - 144	20	
Ethyl methacrylate	100	92.53		93			92.04	0.00	66.89	81.28	73	83	19	70 - 130	70 - 130	20	
2-Hexanone	50	51.89		104			46.02	0.00	50.65	41.49	110	85	20	22 - 162	10 - 165	20	
Iodomethane	50	55.78		112			46.02	0.00	39.02	44.29	85	91	13	10 - 233	10 - 229	20	
Isobutanol	1050	940		90			966.4	0.00	2616	1230	271 *	120	72 *	14 - 161	10 - 167	20	Q1
Methacrylonitrile	550	478.5		87			506.2	0.00	382.3	449.5	76	84	16	10 - 174	50 - 150	20	
Methylene chloride	50	58.51		117			46.02	0.00	39.66	46.79	86	96	16	23 - 161	10 - 146	20	A11
Methyl methacrylate	100	87.11		87			92.04	0.00	62.05	77.86	67 *	80	23 *	70 - 130	70 - 130	20	Q1
4-Methyl-2-pentanone (MI	50	50.43		101			46.02	0.00	38.78	44.73	84	91	14	10 - 167	10 - 150	20	

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* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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New Orleans Laboratory

Report of Quality Control

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Method: EPA 8260 **Project:** 2066924 **LCS:** 20502885 2/23/2007 5:23:00 PM

Batch: 82551 **MS:** 20502886 2/23/2007 8:54:00 PM

Units: ug/kg **Original for MS:** 20502391 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Propionitrile	550	485.2		88			506.2	0.00	567.3	451	112	84	23 *	10 - 174	10 - 137	20	
Styrene	50	55.67		111			46.02	0.00	27.37	31.8	60	65	15	64 - 138	10 - 145	20	
1,1,1,2-Tetrachloroethane	50	53.35		107			46.02	0.00	30.8	39.51	67	81	25 *	56 - 154	10 - 162	20	
1,1,2,2-Tetrachloroethane	50	48.1		96			46.02	0.00	25.08	33.94	55	69	30 *	41 - 144	10 - 162	20	
Tetrachloroethene	50	62.27		125			46.02	0.00	34.98	41.79	76	85	18	30 - 161	10 - 179	20	
Toluene	50	43.17		86			46.02	5.88	31.85	35.87	56	61	12	65 - 135	21 - 147	20	
1,1,1-Trichloroethane	50	47.11		94			46.02	0.00	33.45	38.12	73	78	13	57 - 139	32 - 144	20	
1,1,2-Trichloroethane	50	44.86		90			46.02	0.00	29.45	38.65	64	79	27 *	59 - 145	13 - 150	20	
Trichloroethene	50	48.53		97			46.02	0.00	31.27	36.48	68	75	15	64 - 139	24 - 152	20	
Trichlorofluoromethane	50	77.11		154			46.02	0.00	46.26	56.5	101	116	20	39 - 157	20 - 153	20	
1,2,3-Trichloropropane	50	51.89		104			46.02	0.00	30.41	36.75	66	75	19	42 - 150	21 - 138	20	
1,2,4-Trimethylbenzene	50	52.94		106			46.02	2.26	22.12	32.7	43	62	39 *	62 - 145	43 - 124	20	
1,3,5-Trimethylbenzene	50	50.61		101			46.02	0.00	21.14	30.61	46 *	63 *	37 *	58 - 151	70 - 130	20	Q1
Vinyl acetate	50	107.6		215 *			46.02	0.00	65.83	90.73	143	185 *	32 *	10 - 210	50 - 150	20	Q10
Vinyl chloride	50	49.59		99			46.02	0.00	36.47	40.48	79	83	10	33 - 145	15 - 153	20	
m&p-Xylene	100	99.9		100			92.04	3.51	56.38	70.37	57	68	22 *	60 - 138	10 - 147	20	
o-Xylene	50	50.41		101			46.02	1.66	28.25	35.93	58	70	24 *	62 - 139	10 - 149	20	

56 compound(s) reported

*** denotes recovery outside of QC limits.**
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Phone: 504.469.0333
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LELAP # 02006

Method: EPA 8260 **Project:** 2066924 **LCS:** 20503039 2/21/2007 11:13:00 AM

Batch: 82583 **MS:** 20503040 2/21/2007 12:16:00 PM

Units: ug/L **Original for MS:** 20502422 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Acetone	50	42.36		85			50	0.00	64.65	75.19	129	150	15	22 - 165	11 - 171	20	A11
Acetonitrile	550	899.5		164			550	0.00	1014	1024	184 *	186 *	1	15 - 171	10 - 182	20	Q1
Acrolein	100	72.55		73			100	0.00	676	878.1	676 *	878 *	26 *	10 - 150	10 - 150	20	Q1
Acrylonitrile	150	144.7		97			150	0.00	128.6	126.7	86	85	1	10 - 150	10 - 150	20	
Allyl chloride	100	90.78		91			100	0.00	86.86	89.26	87	89	3	30 - 155	34 - 153	20	
Benzene	50	43.55		87			50	174.70	175.8	180.7	2 *	12 *	3	70 - 135	60 - 144	20	Q1
Bromodichloromethane	50	42.87		86			50	0.00	43.24	44.33	87	89	2	61 - 156	59 - 156	20	
Bromoform	50	56.91		114			50	0.00	55.48	56.54	111	113	2	56 - 154	50 - 153	20	
Bromomethane	50	34.75		70			50	0.00	31.35	30.08	63	60	4	44 - 158	37 - 165	20	
2-Butanone (MEK)	50	50.4		101			50	0.00	157.3	157.8	315 *	316 *	0	32 - 157	20 - 168	20	A11,Q
Carbon disulfide	50	40.41		81			50	0.00	38.2	39.29	76	79	3	40 - 147	36 - 152	20	
Carbon tetrachloride	50	47.56		95			50	0.00	43.71	45.37	87	91	4	50 - 166	44 - 170	20	
Chlorobenzene	50	52.77		106			50	0.00	51.15	52.47	102	105	3	73 - 129	67 - 134	20	
Chloroethane	50	52.99		106			50	0.00	49.22	47.66	98	95	3	38 - 163	34 - 170	20	
Chloroform	50	50.16		100			50	0.00	47.87	47.45	96	95	1	71 - 133	64 - 140	20	
Chloromethane	50	58.76		118			50	0.00	62.78	61.65	126	123	2	32 - 149	22 - 163	20	
Chloroprene	50	54.14		108			50	0.00	50.8	51.75	102	104	2	50 - 141	51 - 134	20	
1,2-Dibromo-3-chloropropa	50	48.82		98			50	0.00	55.37	55.27	111	111	0	34 - 145	28 - 150	20	
Dibromochloromethane	50	51.09		102			50	0.00	49.1	50.21	98	100	2	63 - 147	58 - 147	20	
1,2-Dibromoethane (EDB)	50	56.38		113			50	0.00	57.71	59.19	115	118	3	60 - 147	55 - 149	20	
Dibromomethane	50	47.05		94			50	0.00	47.55	48.19	95	96	1	60 - 147	56 - 148	20	
trans-1,4-Dichloro-2-butene	100	95.87		96			100	0.00	95.19	99.29	95	99	4	17 - 178	21 - 164	20	
1,1-Dichloroethane	50	47.91		96			50	0.00	46.37	47.27	93	95	2	64 - 135	59 - 142	20	
1,2-Dichloroethane	50	44.36		89			50	0.00	45.53	46.42	91	93	2	53 - 164	51 - 161	20	
1,1-Dichloroethene	50	51.62		103			50	0.00	47.76	50.24	96	101	5	51 - 143	44 - 152	20	
trans-1,2-Dichloroethene	50	50.74		101			50	0.00	48.61	49.99	97	100	3	59 - 139	56 - 145	20	
1,2-Dichloropropane	50	42.71		85			50	0.00	41.41	42.73	83	86	3	69 - 135	66 - 138	20	
cis-1,3-Dichloropropene	50	48.41		97			50	0.00	48.49	48.42	97	97	0	66 - 141	58 - 142	20	
trans-1,3-Dichloropropene	50	47.89		96			50	0.00	49.26	49.75	99	100	1	57 - 150	50 - 151	20	
1,4-Dioxane (p-Dioxane)	1050	1241		118			1050	0.00	1562	1422	149	135	9	17 - 176	19 - 172	20	
Ethylbenzene	50	48.93		98			50	491.80	362.1	371	0 *	0 *	2	67 - 132	58 - 138	20	Q3
Ethyl methacrylate	100	105.3		105			100	0.00	119	121.3	119	121	2	57 - 143	45 - 170	20	
2-Hexanone	50	60.5		121			50	0.00	73.78	69	148	138	7	36 - 154	25 - 163	20	
Iodomethane	50	56.74		113			50	0.00	55.2	55.51	110	111	1	43 - 159	36 - 160	20	
Isobutanol	1050	1142		109			1050	0.00	1658	1535	158	146	8	32 - 160	26 - 169	20	
Methacrylonitrile	550	553.9		101			550	0.00	604	770.9	110	140	24 *	10 - 171	10 - 167	20	
Methylene chloride	50	59.7		119			50	206.10	357	360.9	302 *	310 *	1	29 - 159	19 - 158	20	A11,Q
Methyl methacrylate	100	101.8		102			100	0.00	102.4	103.1	102	103	1	52 - 167	11 - 212	20	
4-Methyl-2-pentanone (MI	50	55.46		111			50	0.00	61.22	60.99	122	122	0	13 - 162	10 - 157	20	

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* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Report of Quality Control

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Method: EPA 8260 **Project:** 2066924 **LCS:** 20503039 2/21/2007 11:13:00 AM

Batch: 82583 **MS:** 20503040 2/21/2007 12:16:00 PM

Units: ug/L **Original for MS:** 20502422 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Propionitrile	550	575.1		105			550	0.00	604.1	586.4	110	107	3	23 - 159	25 - 158	20	
Styrene	50	55.79		112			50	13.41	56.85	58.07	87	89	2	71 - 134	54 - 144	20	
1,1,1,2-Tetrachloroethane	50	53.73		107			50	0.00	47.26	49.39	95	99	4	73 - 146	65 - 150	20	
1,1,2,2-Tetrachloroethane	50	46.95		94			50	0.00	33.54	34.04	67	68	1	50 - 142	46 - 145	20	
Tetrachloroethene	50	62.93		126			50	0.00	57.62	59.35	115	119	3	42 - 156	39 - 151	20	
Toluene	50	46.25		93			50	918.80	481.9	495.5	0 *	0 *	3	72 - 132	64 - 139	20	Q3
1,1,1-Trichloroethane	50	50.12		100			50	0.00	45.9	46.58	92	93	1	65 - 136	59 - 141	20	
1,1,2-Trichloroethane	50	47.78		96			50	0.00	48.9	49.52	98	99	1	67 - 144	60 - 146	20	
Trichloroethene	50	51.45		103			50	0.00	48.43	49.96	97	100	3	69 - 136	61 - 141	20	
Trichlorofluoromethane	50	78.69		157			50	0.00	70.67	73.04	141	146	3	42 - 161	38 - 160	20	
1,2,3-Trichloropropane	50	52.49		105			50	0.00	45.54	48.11	91	96	5	52 - 152	51 - 151	20	
1,2,4-Trimethylbenzene	50	49.44		99			50	1328.00	455.1	468.1	0 *	0 *	3	59 - 137	41 - 155	20	Q3
1,3,5-Trimethylbenzene	50	47.17		94			50	1081.00	251.9	260.9	0 *	0 *	4	69 - 135	55 - 150	20	Q3
Vinyl acetate	50	127.9		256 *			50	0.00	134.1	134.1	268 *	268 *	0	21 - 190	10 - 185	20	Q10
Vinyl chloride	50	54.49		109			50	0.00	50.63	50.75	101	102	0	40 - 146	28 - 161	20	
m&p-Xylene	100	100		100			100	3170.00	1141	1174	0 *	0 *	3	70 - 129	66 - 132	20	Q3
o-Xylene	50	49.6		99			50	1610.00	621.3	637.5	0 *	0 *	3	70 - 129	66 - 132	20	Q3

56 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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LELAP # 02006

Method: EPA 8260 **Project:** 2066924 **LCS:** 20503144 2/23/2007 2:08:00 PM

Batch: 82609 **MS:** 20503145 2/23/2007 5:07:00 PM

Units: ug/kg **Original for MS:** 20502698 Project Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Acetone	50	82.18		164			46.93	11.92	54.06	48.21	90	75	11	11 - 166	10 - 183	20	A11
Acetonitrile	550	668.1		121			516.2	0.00	274.1	408.4	53	77	39 *	22 - 198	50 - 150	20	
Acrolein	100	93.46		94			93.86	0.00	36.06	65.34	38	68	58 *	10 - 150	10 - 147	20	
Acrylonitrile	150	151.7		101			140.8	0.00	52.2	58.87	37	41	12	10 - 150	10 - 150	20	
Allyl chloride	100	75.36		75			93.86	0.00	40.76	42.56	43	44	4	32 - 170	10 - 163	20	
Benzene	50	39.81		80			46.93	1.71	20.05	20.74	39	39	3	65 - 136	33 - 143	20	
Bromodichloromethane	50	49.24		99			46.93	0.00	20.21	20.26	43	42	0	56 - 157	14 - 155	20	
Bromoform	50	59.57		119			46.93	0.00	19.48	18.75	42	39	4	46 - 156	10 - 152	20	
Bromomethane	50	45.48		91			46.93	0.00	26.47	26.49	56	55	0	41 - 159	14 - 162	20	
2-Butanone (MEK)	50	61.83		124			46.93	0.00	21.71	27.53	46	57	24 *	17 - 164	10 - 166	20	A11
Carbon disulfide	50	30.74		62			46.93	1.21	20.54	21.72	41	42	6	38 - 150	14 - 148	20	
Carbon tetrachloride	50	45.58		91			46.93	0.00	27.88	27.59	59	57	1	44 - 166	17 - 160	20	
Chlorobenzene	50	48.29		97			46.93	0.00	21.83	20	47	41	9	65 - 134	14 - 145	20	
Chloroethane	50	42.03		84			46.93	0.00	26.53	26.95	57	56	2	34 - 166	28 - 158	20	
Chloroform	50	48.25		97			46.93	0.00	23.73	23.87	51	49	1	68 - 134	35 - 141	20	
Chloromethane	50	39.92		80			46.93	0.00	24.48	25.87	52	54	6	21 - 152	10 - 158	20	
Chloroprene	50	40.24		81			46.93	0.00	22.77	25.15	49	52	10	47 - 143	10 - 148	20	
1,2-Dibromo-3-chloropropa	50	70.23		140			46.93	0.00	20.1	21.62	43	45	7	23 - 147	10 - 147	20	
Dibromochloromethane	50	60.89		122			46.93	0.00	21.72	21.44	46	44	1	53 - 150	10 - 153	20	
1,2-Dibromoethane (EDB)	50	67.08		134			46.93	0.00	23.39	24.16	50	50	3	47 - 152	10 - 139	20	
Dibromomethane	50	57.68		115			46.93	0.00	21.19	20.41	45	42	4	55 - 153	34 - 145	20	
trans-1,4-Dichloro-2-butene	100	134.8		135			93.86	0.00	43.71	47.13	47	49	8	11 - 161	10 - 157	20	
1,1-Dichloroethane	50	41		82			46.93	0.00	21.37	20.87	46	43	2	61 - 135	36 - 141	20	
1,2-Dichloroethane	50	60.11		120			46.93	0.00	23.87	24.19	51	50	1	46 - 162	15 - 158	20	
1,1-Dichloroethene	50	38.06		76			46.93	0.00	25.91	26.93	55	56	4	50 - 144	31 - 149	20	
trans-1,2-Dichloroethene	50	40.91		82			46.93	0.00	23.69	24.46	51	51	3	56 - 138	29 - 142	20	
1,2-Dichloropropane	50	42.98		86			46.93	0.00	18.73	18.87	40	39	1	64 - 136	28 - 141	20	
cis-1,3-Dichloropropene	50	50.52		101			46.93	0.00	20.22	20.63	43	43	2	58 - 142	10 - 145	20	
trans-1,3-Dichloropropene	50	55.96		112			46.93	0.00	20.27	20.97	43	43	3	47 - 152	10 - 149	20	
1,4-Dioxane (p-Dioxane)	1050	1707		163			985.5	0.00	2023	3468	205 *	342 *	53 *	24 - 168	10 - 193	20	Q1
Ethylbenzene	50	43.1		86			46.93	1.52	22.03	21	44	40	5	62 - 134	11 - 144	20	
Ethyl methacrylate	100	129.4		129			93.86	0.00	38.72	42.63	41 *	44 *	10	70 - 130	70 - 130	20	Q1
2-Hexanone	50	73.87		148			46.93	0.00	17.92	21.88	38	45	20	22 - 162	10 - 165	20	
Iodomethane	50	45.05		90			46.93	0.00	24.77	24.61	53	51	1	10 - 233	10 - 229	20	
Isobutanol	1050	1266		121			985.5	0.00	671.5	1089	68	107	47 *	14 - 161	10 - 167	20	
Methacrylonitrile	550	666.4		121			516.2	0.00	215.3	233.8	42 *	44 *	8	10 - 174	50 - 150	20	Q1
Methylene chloride	50	58.25		117			46.93	0.00	26.37	26.81	56	56	2	23 - 161	10 - 146	20	A11
Methyl methacrylate	100	142.9		143 *			93.86	0.00	43.48	48.77	46 *	51 *	11	70 - 130	70 - 130	20	Q10
4-Methyl-2-pentanone (MI	50	69.54		139			46.93	0.00	22.28	20.37	48	42	9	10 - 167	10 - 150	20	

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LELAP # 02006

Method: EPA 8260 **Project:** 2066924 **LCS:** 20503144 2/23/2007 2:08:00 PM

Batch: 82609 **MS:** 20503145 2/23/2007 5:07:00 PM

Units: ug/kg **Original for MS:** 20502698 Project Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Propionitrile	550	698.3		127			516.2	0.00	246.6	321.3	48	60	26 *	10 - 174	10 - 137	20	
Styrene	50	51.73		103			46.93	0.00	14.73	19.32	31	40	27 *	64 - 138	10 - 145	20	
1,1,1,2-Tetrachloroethane	50	56.49		113			46.93	0.00	22.69	22.44	48	46	1	56 - 154	10 - 162	20	
1,1,2,2-Tetrachloroethane	50	69.7		139			46.93	0.00	19.16	20.21	41	42	5	41 - 144	10 - 162	20	
Tetrachloroethene	50	39.62		79			46.93	0.00	22.21	20.93	47	43	6	30 - 161	10 - 179	20	
Toluene	50	43.16		86			46.93	4.62	23.36	25.03	40	42	7	65 - 135	21 - 147	20	
1,1,1-Trichloroethane	50	40.01		80			46.93	0.00	24.13	24.34	51	50	1	57 - 139	32 - 144	20	
1,1,2-Trichloroethane	50	57.53		115			46.93	0.00	21.14	21.64	45	45	2	59 - 145	13 - 150	20	
Trichloroethene	50	46.58		93			46.93	0.00	25.28	24.33	54	50	4	64 - 139	24 - 152	20	
Trichlorofluoromethane	50	44.23		89			46.93	0.00	33.68	34.22	72	71	2	39 - 157	20 - 153	20	
1,2,3-Trichloropropane	50	82.92		166 *			46.93	0.00	23.83	25.97	51	54	9	42 - 150	21 - 138	20	Q10
1,2,4-Trimethylbenzene	50	47.95		96			46.93	1.31	21.93	20.87	44	41 *	5	62 - 145	43 - 124	20	
1,3,5-Trimethylbenzene	50	46.24		93			46.93	0.00	22.77	20.8	49 *	43 *	9	58 - 151	70 - 130	20	Q1
Vinyl acetate	50	131.8		264 *			46.93	0.00	42.84	43.53	91	90	2	10 - 210	50 - 150	20	Q10
Vinyl chloride	50	38.4		77			46.93	0.00	26.73	28.51	57	59	6	33 - 145	15 - 153	20	
m&p-Xylene	100	84.77		85			93.86	2.10	42.88	40.96	44	40	5	60 - 138	10 - 147	20	
o-Xylene	50	45.46		91			46.93	0.94	21.08	20.32	43	40	4	62 - 139	10 - 149	20	

56 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
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Method: EPA 8270 **Project:** 2066924 **LCS:** 20502977 3/2/2007 1:23:00 PM

Batch: 82564 **MS:**

Units: ug/L **Original for MS:**

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
bis(2-Ethylhexyl)phthalate	50	42.86		86										30 - 154	-		Q5
4-Nitrophenol	50	31.43		63										25 - 140	-		Q5
Pentachlorophenol	50	42.11		84										32 - 133	-		Q5

3 compound(s) reported

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Method: EPA 8270 **Project:** 2066924 **LCS:** 20504480 3/3/2007 7:39:00 PM

Batch: 82863 **MS:** 20504481 3/4/2007 2:29:00 AM

Units: ug/kg **Original for MS:** 20502391 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Acetophenone	1667	774.7		47			1964	0.00	757.5	875.7	39 *	45	14	40 - 120	40 - 120	20	Q1
bis(2-Ethylhexyl)phthalate	1667	801.3		48			1964	0.00	798.8	978.2	41	50	20	41 - 125	14 - 144	20	
4-Nitrophenol	1667	953.3		57			1964	0.00	1184	1402	60	71	17	30 - 132	10 - 138	20	
Pentachlorophenol	1667	980		59			1964	0.00	1147	1319	58	67	14	28 - 122	10 - 142	20	

4 compound(s) reported

* denotes recovery outside of QC limits.
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LELAP # 02006

Method: EPA 8270 **Project:** 2066924 **LCS:** 20504617 3/2/2007 3:54:00 PM

Batch: 82902 **MS:** 20504618 3/2/2007 4:23:00 PM

Units: ug/kg **Original for MS:** 20502698 Project Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Acetophenone	1667	742.3		45			2043	0.00	735.5	274.2	36 *	13 *	91 *	40 - 120	40 - 120	20	Q1
bis(2-Ethylhexyl)phthalate	1667	777.3		47			2043	0.00	717.5	637.8	35	31	12	41 - 125	14 - 144	20	
4-Nitrophenol	1667	689.3		41			2043	0.00	696.2	633.3	34	31	9	30 - 132	10 - 138	20	
Pentachlorophenol	1667	824.7		50			2043	0.00	765.3	737.1	38	36	4	28 - 122	10 - 142	20	

4 compound(s) reported

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(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Method: EPA 8270 **Project:** 2066924 **LCS:** 20505594 3/7/2007 6:09:00 PM

Batch: 83084 **MS:** 20505595 3/7/2007 10:50:00 PM

Units: ug/kg **Original for MS:** 20502391 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Acetophenone	1667	1334		80			1964	0.00	1451	1351	74	69	7	40 - 120	40 - 120	20	
bis(2-Ethylhexyl)phthalate	1667	1307		78			1964	0.00	1630	1648	83	84	1	41 - 125	14 - 144	20	
4-Nitrophenol	1667	1255		75			1964	0.00	1410	1417	72	72	0	30 - 132	10 - 138	20	
Pentachlorophenol	1667	1768		106			1964	0.00	1372	1395	70	71	2	28 - 122	10 - 142	20	

4 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Report of Batch Surrogate Recovery

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Phone: 504.469.0333
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LELAP # 02006

Report: 2066924 **Batch: 82551**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20502391	OQS	118	120	98					
20502690	Sample	126	118	97					
20502691	Sample	128	120	97					
20502692	Sample	132	122	96					
20502693	Sample	127	119	97					
20502694	Sample	118	114	96					
20502695	Sample	125	119	97					
20502696	Sample	122	120	96					
20502697	Sample	122	123	97					
20502884	BLANK	124	120	95					
20502885	LCS	119	106	94					
20502886	MS	115	122	96					
20502887	MSD	112	120	96					
	QC limits:	55-154	57-136	64-129					

Sur 1: 4-Bromofluorobenzene (S)
Sur 2: Dibromofluoromethane (S)
Sur 3: Toluene-d8 (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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Fax: 504.469.0555
LELAP # 02006

Report: 2066924 **Batch: 82564**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20502704	Sample	71	60	59	62	58	72		
20502976	BLANK	62	64	58	69	66	91		
20502977	LCS	86	68	69	60	70	76		
	QC limits:	25-133	36-108	10-109	21-120	15-113	17-130		

Sur 1: 2,4,6-Tribromophenol (S)
Sur 2: 2-Fluorobiphenyl (S)
Sur 3: 2-Fluorophenol (S)
Sur 4: Nitrobenzene-d5 (S)
Sur 5: Phenol-d5 (S)
Sur 6: Terphenyl-d14 (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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Report of Batch Surrogate Recovery

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Phone: 504.469.0333
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LELAP # 02006

Report: 2066924 **Batch: 82583**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20502702	Sample	118	116	95					
20502703	Sample	124	107	95					
20502704	Sample	120	109	95					
20503038	BLANK	111	118	95					
20503039	LCS	114	109	95					
20503040	MS	108	108	94					
20503041	MSD	108	107	93					
20503369	BLANK	128	112	101					
20503370	LCS	104	98	102					
	QC limits:	71-129	68-124	74-122					

Sur 1: 4-Bromofluorobenzene (S)
Sur 2: Dibromofluoromethane (S)
Sur 3: Toluene-d8 (S)

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A Lab ID consisting of a batch number with a B suffix is a method blank.
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A Lab ID with a MSD suffix is a matrix spike duplicate.

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LELAP # 02006

Report: 2066924 **Batch: 82609**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20502698	OQS	130	111	101					
20502699	Sample	144	109	100					
20502700	Sample	142	111	101					
20503143	BLANK	133	106	100					
20503144	LCS	103	101	103					
20503145	MS	103	111	101					
20503146	MSD	107	111	103					
	QC limits:	55-154	57-136	64-129					

Sur 1: 4-Bromofluorobenzene (S)
Sur 2: Dibromofluoromethane (S)
Sur 3: Toluene-d8 (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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Report: 2066924 **Batch: 82863**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20502391	OQS	1 *	0 *	0 *	0 *	0 *	1 *		
20502690	Sample	55	47	39	46	48	48		
20504479	BLANK	53	48	42	48	48	55		
20504480	LCS	56	55	45	45	52	50		
20504481	MS	48	44	31	37	39	34		
20504482	MSD	57	56	36	42	47	42		
	QC limits:	10-127	18-116	10-109	10-121	20-107	30-113		

Sur 1: 2,4,6-Tribromophenol (S)
Sur 2: 2-Fluorobiphenyl (S)
Sur 3: 2-Fluorophenol (S)
Sur 4: Nitrobenzene-d5 (S)
Sur 5: Phenol-d5 (S)
Sur 6: Terphenyl-d14 (S)

*** denotes surrogate recovery outside of QC limits.**
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Report: 2066924 **Batch: 82902**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20502691	Sample	50	48	40	47	45	54		
20502692	Sample	37	43	38	42	42	40		
20502693	Sample	54	32	14	19	27	50		
20502694	Sample	43	48	37	44	42	45		
20502695	Sample N	34	22	6 *	7 *	16 *	39		
20502696	Sample	50	53	45	49	50	55		
20502697	Sample	55	44	20	28	35	55		
20502698	OQS	36	40	31	36	36	41		
20502699	Sample	35	36	23	29	31	31		
20502700	Sample	28	28	22	26	25	24 *		
20504616	BLANK	53	49	44	44	48	61		
20504617	LCS	57	54	46	42	49	51		
20504618	MS	39	41	32	35	37	36		
20504619	MSD Q1	35	14 *	12	13	17 *	40		
QC limits:		10-127	18-116	10-109	10-121	20-107	30-113		

Sur 1: 2,4,6-Tribromophenol (S)
Sur 2: 2-Fluorobiphenyl (S)
Sur 3: 2-Fluorophenol (S)
Sur 4: Nitrobenzene-d5 (S)
Sur 5: Phenol-d5 (S)
Sur 6: Terphenyl-d14 (S)

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Report: 2066924 **Batch: 83084**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20502391	OQS	65	58	54	61	64	92		
20502695	Sample N	67	69	60	71	66	80		
20505593	BLANK	66	66	59	64	64	78		
20505594	LCS	100	95	80	89	88	94		
20505595	MS	68	64	59	68	75	98		
20505596	MSD	68	62	57	64	69	94		
	QC limits:	10-127	18-116	10-109	10-121	20-107	30-113		

Sur 1: 2,4,6-Tribromophenol (S)
Sur 2: 2-Fluorobiphenyl (S)
Sur 3: 2-Fluorophenol (S)
Sur 4: Nitrobenzene-d5 (S)
Sur 5: Phenol-d5 (S)
Sur 6: Terphenyl-d14 (S)

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Phone: 504.469.0333
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LELAP # 02006

Lab ID: 20502884

Description: 8260 VOAs Full List Low, BLK **Project No.:** 2066924

Method: EPA 8260 **Batch:** 82551 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 23-Feb-07 **Analyzed:** 02/23/07 17:04 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
67-64-1	Acetone	1	ND	A11	10.0
75-05-8	Acetonitrile	1	ND		100.
107-02-8	Acrolein	1	ND		20.0
107-13-1	Acrylonitrile	1	ND		20.0
107-05-1	Allyl chloride	1	ND		10.0
71-43-2	Benzene	1	ND		5.00
75-27-4	Bromodichloromethane	1	ND		5.00
75-25-2	Bromoform	1	ND		5.00
74-83-9	Bromomethane	1	ND		5.00
78-93-3	2-Butanone (MEK)	1	ND	A11	10.0
75-15-0	Carbon disulfide	1	ND		5.00
56-23-5	Carbon tetrachloride	1	ND		5.00
108-90-7	Chlorobenzene	1	ND		5.00
75-00-3	Chloroethane	1	ND		5.00
67-66-3	Chloroform	1	ND		5.00
74-87-3	Chloromethane	1	ND		5.00
126-99-8	Chloroprene	1	ND		5.00
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.00
124-48-1	Dibromochloromethane	1	ND		5.00
106-93-4	1,2-Dibromoethane (EDB)	1	ND		5.00
74-95-3	Dibromomethane	1	ND		5.00
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		5.00
75-71-8	Dichlorodifluoromethane	1	ND		5.00
75-34-3	1,1-Dichloroethane	1	ND		5.00
107-06-2	1,2-Dichloroethane	1	ND		5.00
75-35-4	1,1-Dichloroethene	1	ND		5.00
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00
78-87-5	1,2-Dichloropropane	1	ND		5.00
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		250.
100-41-4	Ethylbenzene	1	ND		5.00
97-63-2	Ethyl methacrylate	1	ND		10.0
591-78-6	2-Hexanone	1	ND		10.0
74-88-4	Iodomethane	1	ND		5.00
78-83-1	Isobutanol	1	ND		250.

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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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Lab ID: 20502884

Description: 8260 VOAs Full List Low, BLK **Project No.:** 2066924

Method: EPA 8260 **Batch:** 82551 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 23-Feb-07 **Analyzed:** 02/23/07 17:04 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
126-98-7	Methacrylonitrile	1	ND		100.
75-09-2	Methylene chloride	1	ND	A11	5.00
80-62-6	Methyl methacrylate	1	ND		10.0
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0
107-12-0	Propionitrile	1	ND		20.0
100-42-5	Styrene	1	ND		5.00
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.00
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00
127-18-4	Tetrachloroethene	1	ND		5.00
108-88-3	Toluene	1	ND		5.00
71-55-6	1,1,1-Trichloroethane	1	ND		5.00
79-00-5	1,1,2-Trichloroethane	1	ND		5.00
79-01-6	Trichloroethene	1	ND		5.00
75-69-4	Trichlorofluoromethane	1	ND		5.00
96-18-4	1,2,3-Trichloropropane	1	ND		5.00
95-63-6	1,2,4-Trimethylbenzene	1	ND		5.00
108-67-8	1,3,5-Trimethylbenzene	1	ND		5.00
108-05-4	Vinyl acetate	1	ND		10.0
75-01-4	Vinyl chloride	1	ND		5.00
	m&p-Xylene	1	ND		5.00
95-47-6	o-Xylene	1	ND		5.00

57 compound(s) reported

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Phone: 504.469.0333
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Lab ID: 20502976

Description: 8270 SVOAs Water **Project No.:** 2066924

Method: EPA 8270 **Batch:** 82564 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 21-Feb-07 **Analyzed:** 03/02/07 12:24 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
83-32-9	Acenaphthene	1	ND		10.0
208-96-8	Acenaphthylene	1	ND		10.0
98-86-2	Acetophenone	1	ND		10.0
120-12-7	Anthracene	1	ND		10.0
1912-24-9	Atrazine	1	ND		10.0
56-55-3	Benzo(a)anthracene	1	ND		10.0
205-99-2	Benzo(b)fluoranthene	1	ND		10.0
207-08-9	Benzo(k)fluoranthene	1	ND		10.0
65-85-0	Benzoic acid	1	ND		10.0
191-24-2	Benzo(g,h,i)perylene	1	ND		10.0
50-32-8	Benzo(a)pyrene	1	ND		10.0
100-51-6	Benzyl alcohol	1	ND		10.0
101-55-3	4-Bromophenylphenyl ether	1	ND		10.0
85-68-7	Butylbenzylphthalate	1	ND		10.0
86-74-8	Carbazole	1	ND		10.0
59-50-7	4-Chloro-3-methylphenol	1	ND		10.0
106-47-8	4-Chloroaniline	1	ND		10.0
111-91-1	bis(2-Chloroethoxy)methane	1	ND		10.0
111-44-4	bis(2-Chloroethyl) ether	1	ND		10.0
91-58-7	2-Chloronaphthalene	1	ND		10.0
95-57-8	2-Chlorophenol	1	ND		10.0
7005-72-3	4-Chlorophenylphenyl ether	1	ND		10.0
218-01-9	Chrysene	1	ND		10.0
21725-46-2	Cyanazine	1	ND		10.0
53-70-3	Dibenz(a,h)anthracene	1	ND		10.0
132-64-9	Dibenzofuran	1	ND		10.0
95-50-1	1,2-Dichlorobenzene	1	ND		10.0
541-73-1	1,3-Dichlorobenzene	1	ND		10.0
106-46-7	1,4-Dichlorobenzene	1	ND		10.0
91-94-1	3,3'-Dichlorobenzidine	1	ND		10.0
120-83-2	2,4-Dichlorophenol	1	ND		10.0
84-66-2	Diethylphthalate	1	ND		10.0
105-67-9	2,4-Dimethylphenol	1	ND		10.0
131-11-3	Dimethylphthalate	1	ND		10.0
84-74-2	Di-n-butylphthalate	1	ND		10.0
534-52-1	4,6-Dinitro-2-methylphenol	1	ND		10.0

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Lab ID: 20502976
Description: 8270 SVOAs Water **Project No.:** 2066924
Method: EPA 8270 **Batch:** 82564 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 21-Feb-07 **Analyzed:** 03/02/07 12:24 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
51-28-5	2,4-Dinitrophenol	1	ND		10.0
121-14-2	2,4-Dinitrotoluene	1	ND		10.0
606-20-2	2,6-Dinitrotoluene	1	ND		10.0
117-84-0	Di-n-octylphthalate	1	ND		10.0
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		10.0
206-44-0	Fluoranthene	1	ND		10.0
86-73-7	Fluorene	1	ND		10.0
87-68-3	Hexachloro-1,3-butadiene	1	ND		10.0
118-74-1	Hexachlorobenzene	1	ND		10.0
77-47-4	Hexachlorocyclopentadiene	1	ND		10.0
67-72-1	Hexachloroethane	1	ND		10.0
193-39-5	Indeno(1,2,3-cd)pyrene	1	ND		10.0
78-59-1	Isophorone	1	ND		10.0
91-57-6	2-Methylnaphthalene	1	ND		10.0
95-48-7	2-Methylphenol (o-Cresol)	1	ND		10.0
106-44-5	4-Methylphenol (p-Cresol)	1	ND	A7	10.0
91-20-3	Naphthalene	1	ND		10.0
88-74-4	2-Nitroaniline	1	ND		10.0
99-09-2	3-Nitroaniline	1	ND		10.0
100-01-6	4-Nitroaniline	1	ND		10.0
98-95-3	Nitrobenzene	1	ND		10.0
88-75-5	2-Nitrophenol	1	ND		10.0
100-02-7	4-Nitrophenol	1	ND		10.0
621-64-7	N-Nitroso-di-n-propylamine	1	ND		10.0
86-30-6	N-Nitrosodiphenylamine	1	ND	A10	10.0
108-60-1	2,2'-Oxybis(1-chloropropane)	1	ND		10.0
87-86-5	Pentachlorophenol	1	ND		10.0
85-01-8	Phenanthrene	1	ND		10.0
108-95-2	Phenol	1	ND		10.0
129-00-0	Pyrene	1	ND		10.0
120-82-1	1,2,4-Trichlorobenzene	1	ND		10.0
95-95-4	2,4,5-Trichlorophenol	1	ND		10.0
88-06-2	2,4,6-Trichlorophenol	1	ND		10.0

69 compound(s) reported

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20503038

Description: 8260 VOAs Full List Water BLK **Project No.:** 2066924

Method: EPA 8260 **Batch:** 82583 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 21-Feb-07 **Analyzed:** 02/21/07 10:54 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
67-64-1	Acetone	1	ND	A11	10.0
75-05-8	Acetonitrile	1	ND		100.
107-02-8	Acrolein	1	ND		20.0
107-13-1	Acrylonitrile	1	ND		20.0
107-05-1	Allyl chloride	1	ND		10.0
71-43-2	Benzene	1	ND		5.00
75-27-4	Bromodichloromethane	1	ND		5.00
75-25-2	Bromoform	1	ND		5.00
74-83-9	Bromomethane	1	ND		5.00
78-93-3	2-Butanone (MEK)	1	ND	A11	10.0
75-15-0	Carbon disulfide	1	ND		5.00
56-23-5	Carbon tetrachloride	1	ND		5.00
108-90-7	Chlorobenzene	1	ND		5.00
75-00-3	Chloroethane	1	ND		5.00
67-66-3	Chloroform	1	ND		5.00
74-87-3	Chloromethane	1	ND		5.00
126-99-8	Chloroprene	1	ND		5.00
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.00
124-48-1	Dibromochloromethane	1	ND		5.00
106-93-4	1,2-Dibromoethane (EDB)	1	ND		5.00
74-95-3	Dibromomethane	1	ND		5.00
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		5.00
75-71-8	Dichlorodifluoromethane	1	ND		5.00
75-34-3	1,1-Dichloroethane	1	ND		5.00
107-06-2	1,2-Dichloroethane	1	ND		5.00
75-35-4	1,1-Dichloroethene	1	ND		5.00
156-59-2	cis-1,2-Dichloroethene	1	ND		5.00
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00
78-87-5	1,2-Dichloropropane	1	ND		5.00
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		250.
100-41-4	Ethylbenzene	1	ND		5.00
97-63-2	Ethyl methacrylate	1	ND		10.0
591-78-6	2-Hexanone	1	ND		10.0
74-88-4	Iodomethane	1	ND		5.00

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Lab ID: 20503038

Description: 8260 VOAs Full List Water BLK **Project No.:** 2066924

Method: EPA 8260 **Batch:** 82583 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 21-Feb-07 **Analyzed:** 02/21/07 10:54 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
78-83-1	Isobutanol	1	ND		250.
98-82-8	Isopropylbenzene (Cumene)	1	ND		5.00
126-98-7	Methacrylonitrile	1	ND		100.
79-20-9	Methyl acetate	1	ND		10.0
75-09-2	Methylene chloride	1	ND	A11	5.00
80-62-6	Methyl methacrylate	1	ND		10.0
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0
1634-04-4	Methyl-tert-butyl ether	1	ND		5.00
107-12-0	Propionitrile	1	ND		20.0
100-42-5	Styrene	1	ND		5.00
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.00
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00
127-18-4	Tetrachloroethene	1	ND		5.00
108-88-3	Toluene	1	ND		5.00
71-55-6	1,1,1-Trichloroethane	1	ND		5.00
79-00-5	1,1,2-Trichloroethane	1	ND		5.00
79-01-6	Trichloroethene	1	ND		5.00
75-69-4	Trichlorofluoromethane	1	ND		5.00
96-18-4	1,2,3-Trichloropropane	1	ND		5.00
95-63-6	1,2,4-Trimethylbenzene	1	ND		5.00
108-67-8	1,3,5-Trimethylbenzene	1	ND		5.00
108-05-4	Vinyl acetate	1	ND		10.0
75-01-4	Vinyl chloride	1	ND		5.00
	m&p-Xylene	1	ND		5.00
95-47-6	o-Xylene	1	ND		5.00

61 compound(s) reported

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Lab ID: 20503143

Description: 8260 VOAs Full List Low, BLK **Project No.:** 2066924

Method: EPA 8260 **Batch:** 82609 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 23-Feb-07 **Analyzed:** 02/23/07 13:45 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
67-64-1	Acetone	1	ND	A11	10.0
75-05-8	Acetonitrile	1	ND		100.
107-02-8	Acrolein	1	ND		20.0
107-13-1	Acrylonitrile	1	ND		20.0
107-05-1	Allyl chloride	1	ND		10.0
71-43-2	Benzene	1	ND		5.00
75-27-4	Bromodichloromethane	1	ND		5.00
75-25-2	Bromoform	1	ND		5.00
74-83-9	Bromomethane	1	ND		5.00
78-93-3	2-Butanone (MEK)	1	ND	A11	10.0
75-15-0	Carbon disulfide	1	ND		5.00
56-23-5	Carbon tetrachloride	1	ND		5.00
108-90-7	Chlorobenzene	1	ND		5.00
75-00-3	Chloroethane	1	ND		5.00
67-66-3	Chloroform	1	ND		5.00
74-87-3	Chloromethane	1	ND		5.00
126-99-8	Chloroprene	1	ND		5.00
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.00
124-48-1	Dibromochloromethane	1	ND		5.00
106-93-4	1,2-Dibromoethane (EDB)	1	ND		5.00
74-95-3	Dibromomethane	1	ND		5.00
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		5.00
75-71-8	Dichlorodifluoromethane	1	ND		5.00
75-34-3	1,1-Dichloroethane	1	ND		5.00
107-06-2	1,2-Dichloroethane	1	ND		5.00
75-35-4	1,1-Dichloroethene	1	ND		5.00
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00
78-87-5	1,2-Dichloropropane	1	ND		5.00
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		250.
100-41-4	Ethylbenzene	1	ND		5.00
97-63-2	Ethyl methacrylate	1	ND		10.0
591-78-6	2-Hexanone	1	ND		10.0
74-88-4	Iodomethane	1	ND		5.00
78-83-1	Isobutanol	1	ND		250.

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Lab ID: 20503143

Description: 8260 VOAs Full List Low, BLK **Project No.:** 2066924

Method: EPA 8260 **Batch:** 82609 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 23-Feb-07 **Analyzed:** 02/23/07 13:45 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
126-98-7	Methacrylonitrile	1	ND		100.
75-09-2	Methylene chloride	1	ND	A11	5.00
80-62-6	Methyl methacrylate	1	ND		10.0
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0
107-12-0	Propionitrile	1	ND		20.0
100-42-5	Styrene	1	ND		5.00
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.00
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00
127-18-4	Tetrachloroethene	1	ND		5.00
108-88-3	Toluene	1	ND		5.00
71-55-6	1,1,1-Trichloroethane	1	ND		5.00
79-00-5	1,1,2-Trichloroethane	1	ND		5.00
79-01-6	Trichloroethene	1	ND		5.00
75-69-4	Trichlorofluoromethane	1	ND		5.00
96-18-4	1,2,3-Trichloropropane	1	ND		5.00
95-63-6	1,2,4-Trimethylbenzene	1	ND		5.00
108-67-8	1,3,5-Trimethylbenzene	1	ND		5.00
108-05-4	Vinyl acetate	1	ND		10.0
75-01-4	Vinyl chloride	1	ND		5.00
	m&p-Xylene	1	ND		5.00
95-47-6	o-Xylene	1	ND		5.00

57 compound(s) reported

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Lab ID: 20504479
Description: 8270 SVOAs Low Soil **Project No.:** 2066924
Method: EPA 8270 **Batch:** 82863 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 28-Feb-07 **Analyzed:** 03/03/07 19:10 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
83-32-9	Acenaphthene	1	ND		333.
208-96-8	Acenaphthylene	1	ND		333.
98-86-2	Acetophenone	1	ND		333.
62-53-3	Aniline	1	ND		333.
120-12-7	Anthracene	1	ND		333.
1912-24-9	Atrazine	1	ND		333.
56-55-3	Benzo(a)anthracene	1	ND		333.
205-99-2	Benzo(b)fluoranthene	1	ND		333.
207-08-9	Benzo(k)fluoranthene	1	ND		333.
65-85-0	Benzoic acid	1	ND		833.
191-24-2	Benzo(g,h,i)perylene	1	ND		333.
50-32-8	Benzo(a)pyrene	1	ND		333.
100-51-6	Benzyl alcohol	1	ND		333.
92-52-4	Biphenyl (Diphenyl)	1	ND		333.
101-55-3	4-Bromophenylphenyl ether	1	ND		333.
85-68-7	Butylbenzylphthalate	1	ND		333.
86-74-8	Carbazole	1	ND		333.
59-50-7	4-Chloro-3-methylphenol	1	ND		333.
106-47-8	4-Chloroaniline	1	ND		333.
111-91-1	bis(2-Chloroethoxy)methane	1	ND		333.
111-44-4	bis(2-Chloroethyl) ether	1	ND		333.
91-58-7	2-Chloronaphthalene	1	ND		333.
95-57-8	2-Chlorophenol	1	ND		333.
7005-72-3	4-Chlorophenylphenyl ether	1	ND		333.
218-01-9	Chrysene	1	ND		333.
21725-46-2	Cyanazine	1	ND		333.
53-70-3	Dibenz(a,h)anthracene	1	ND		333.
132-64-9	Dibenzofuran	1	ND		333.
95-50-1	1,2-Dichlorobenzene	1	ND		333.
541-73-1	1,3-Dichlorobenzene	1	ND		333.
106-46-7	1,4-Dichlorobenzene	1	ND		333.
91-94-1	3,3'-Dichlorobenzidine	1	ND		667.
120-83-2	2,4-Dichlorophenol	1	ND		333.
84-66-2	Diethylphthalate	1	ND		333.
105-67-9	2,4-Dimethylphenol	1	ND		333.
131-11-3	Dimethylphthalate	1	ND		333.

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Lab ID: 20504479

Description: 8270 SVOAs Low Soil **Project No.:** 2066924

Method: EPA 8270 **Batch:** 82863 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 28-Feb-07 **Analyzed:** 03/03/07 19:10 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
84-74-2	Di-n-butylphthalate	1	ND		333.
534-52-1	4,6-Dinitro-2-methylphenol	1	ND		333.
99-65-0	1,3-Dinitrobenzene	1	ND		333.
51-28-5	2,4-Dinitrophenol	1	ND		333.
121-14-2	2,4-Dinitrotoluene	1	ND		333.
606-20-2	2,6-Dinitrotoluene	1	ND		333.
117-84-0	Di-n-octylphthalate	1	ND		333.
88-85-7	Dinoseb	1	ND		333.
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		333.
206-44-0	Fluoranthene	1	ND		333.
86-73-7	Fluorene	1	ND		333.
87-68-3	Hexachloro-1,3-butadiene	1	ND		333.
118-74-1	Hexachlorobenzene	1	ND		333.
77-47-4	Hexachlorocyclopentadiene	1	ND		333.
67-72-1	Hexachloroethane	1	ND		333.
193-39-5	Indeno(1,2,3-cd)pyrene	1	ND		333.
78-59-1	Isophorone	1	ND		333.
90-12-0	1-Methylnaphthalene	1	ND		333.
91-57-6	2-Methylnaphthalene	1	ND		333.
95-48-7	2-Methylphenol (o-Cresol)	1	ND		333.
106-44-5	4-Methylphenol (p-Cresol)	1	ND	A7	333.
91-20-3	Naphthalene	1	ND		333.
88-74-4	2-Nitroaniline	1	ND		333.
99-09-2	3-Nitroaniline	1	ND		333.
100-01-6	4-Nitroaniline	1	ND		333.
98-95-3	Nitrobenzene	1	ND		333.
88-75-5	2-Nitrophenol	1	ND		333.
100-02-7	4-Nitrophenol	1	ND		333.
621-64-7	N-Nitroso-di-n-propylamine	1	ND		333.
86-30-6	N-Nitrosodiphenylamine	1	ND	A10	333.
108-60-1	2,2'-Oxybis(1-chloropropane)	1	ND		333.
87-86-5	Pentachlorophenol	1	ND		333.
85-01-8	Phenanthrene	1	ND		333.
108-95-2	Phenol	1	ND		333.
129-00-0	Pyrene	1	ND		333.
95-94-3	1,2,4,5-Tetrachlorobenzene	1	ND		333.

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Lab ID: 20504479

Description: 8270 SVOAs Low Soil **Project No.:** 2066924

Method: EPA 8270 **Batch:** 82863 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 28-Feb-07 **Analyzed:** 03/03/07 19:10 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
58-90-2	2,3,4,6-Tetrachlorophenol	1	ND		333.
120-82-1	1,2,4-Trichlorobenzene	1	ND		333.
95-95-4	2,4,5-Trichlorophenol	1	ND		333.
88-06-2	2,4,6-Trichlorophenol	1	ND		333.

76 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
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RL denotes sample Reporting Limit.
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Lab ID: 20504616

Description: 8270 SVOAs Low Soil **Project No.:** 2066924

Method: EPA 8270 **Batch:** 82902 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 01-Mar-07 **Analyzed:** 03/02/07 15:25 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
98-86-2	Acetophenone	1	ND		333.
1912-24-9	Atrazine	1	ND		333.
21725-46-2	Cyanazine	1	ND		333.
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		333.
100-02-7	4-Nitrophenol	1	ND		333.
87-86-5	Pentachlorophenol	1	ND		333.

6 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
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Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Lab ID: 20505593

Description: 8270 SVOAs Low Soil **Project No.:** 2066924

Method: EPA 8270 **Batch:** 83084 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 06-Mar-07 **Analyzed:** 03/07/07 17:42 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
83-32-9	Acenaphthene	1	ND		333.
208-96-8	Acenaphthylene	1	ND		333.
98-86-2	Acetophenone	1	ND		333.
62-53-3	Aniline	1	ND		333.
120-12-7	Anthracene	1	ND		333.
1912-24-9	Atrazine	1	ND		333.
56-55-3	Benzo(a)anthracene	1	ND		333.
205-99-2	Benzo(b)fluoranthene	1	ND		333.
207-08-9	Benzo(k)fluoranthene	1	ND		333.
65-85-0	Benzoic acid	1	ND		833.
191-24-2	Benzo(g,h,i)perylene	1	ND		333.
50-32-8	Benzo(a)pyrene	1	ND		333.
100-51-6	Benzyl alcohol	1	ND		333.
92-52-4	Biphenyl (Diphenyl)	1	ND		333.
101-55-3	4-Bromophenylphenyl ether	1	ND		333.
85-68-7	Butylbenzylphthalate	1	ND		333.
86-74-8	Carbazole	1	ND		333.
59-50-7	4-Chloro-3-methylphenol	1	ND		333.
106-47-8	4-Chloroaniline	1	ND		333.
111-91-1	bis(2-Chloroethoxy)methane	1	ND		333.
111-44-4	bis(2-Chloroethyl) ether	1	ND		333.
91-58-7	2-Chloronaphthalene	1	ND		333.
95-57-8	2-Chlorophenol	1	ND		333.
7005-72-3	4-Chlorophenylphenyl ether	1	ND		333.
218-01-9	Chrysene	1	ND		333.
21725-46-2	Cyanazine	1	ND		333.
53-70-3	Dibenz(a,h)anthracene	1	ND		333.
132-64-9	Dibenzofuran	1	ND		333.
95-50-1	1,2-Dichlorobenzene	1	ND		333.
541-73-1	1,3-Dichlorobenzene	1	ND		333.
106-46-7	1,4-Dichlorobenzene	1	ND		333.
91-94-1	3,3'-Dichlorobenzidine	1	ND		667.
120-83-2	2,4-Dichlorophenol	1	ND		333.
84-66-2	Diethylphthalate	1	ND		333.
105-67-9	2,4-Dimethylphenol	1	ND		333.
131-11-3	Dimethylphthalate	1	ND		333.

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Phone: 504.469.0333
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LELAP # 02006

Lab ID: 20505593

Description: 8270 SVOAs Low Soil **Project No.:** 2066924

Method: EPA 8270 **Batch:** 83084 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 06-Mar-07 **Analyzed:** 03/07/07 17:42 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
84-74-2	Di-n-butylphthalate	1	ND		333.
534-52-1	4,6-Dinitro-2-methylphenol	1	ND		333.
99-65-0	1,3-Dinitrobenzene	1	ND		333.
51-28-5	2,4-Dinitrophenol	1	ND		333.
121-14-2	2,4-Dinitrotoluene	1	ND		333.
606-20-2	2,6-Dinitrotoluene	1	ND		333.
117-84-0	Di-n-octylphthalate	1	ND		333.
88-85-7	Dinoseb	1	ND		333.
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		333.
206-44-0	Fluoranthene	1	ND		333.
86-73-7	Fluorene	1	ND		333.
87-68-3	Hexachloro-1,3-butadiene	1	ND		333.
118-74-1	Hexachlorobenzene	1	ND		333.
77-47-4	Hexachlorocyclopentadiene	1	ND		333.
67-72-1	Hexachloroethane	1	ND		333.
193-39-5	Indeno(1,2,3-cd)pyrene	1	ND		333.
78-59-1	Isophorone	1	ND		333.
90-12-0	1-Methylnaphthalene	1	ND		333.
91-57-6	2-Methylnaphthalene	1	ND		333.
95-48-7	2-Methylphenol (o-Cresol)	1	ND		333.
106-44-5	4-Methylphenol (p-Cresol)	1	ND	A7	333.
91-20-3	Naphthalene	1	ND		333.
88-74-4	2-Nitroaniline	1	ND		333.
99-09-2	3-Nitroaniline	1	ND		333.
100-01-6	4-Nitroaniline	1	ND		333.
98-95-3	Nitrobenzene	1	ND		333.
88-75-5	2-Nitrophenol	1	ND		333.
100-02-7	4-Nitrophenol	1	ND		333.
621-64-7	N-Nitroso-di-n-propylamine	1	ND		333.
86-30-6	N-Nitrosodiphenylamine	1	ND	A10	333.
108-60-1	2,2'-Oxybis(1-chloropropane)	1	ND		333.
87-86-5	Pentachlorophenol	1	ND		333.
85-01-8	Phenanthrene	1	ND		333.
108-95-2	Phenol	1	ND		333.
129-00-0	Pyrene	1	ND		333.
95-94-3	1,2,4,5-Tetrachlorobenzene	1	ND		333.

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DF denotes Dilution Factor.
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LELAP # 02006

Lab ID: 20505593

Description: 8270 SVOAs Low Soil **Project No.:** 2066924

Method: EPA 8270 **Batch:** 83084 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 06-Mar-07 **Analyzed:** 03/07/07 17:42 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
58-90-2	2,3,4,6-Tetrachlorophenol	1	ND		333.
120-82-1	1,2,4-Trichlorobenzene	1	ND		333.
95-95-4	2,4,5-Trichlorophenol	1	ND		333.
88-06-2	2,4,6-Trichlorophenol	1	ND		333.

76 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
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Method: EPA 8151 **Project:** 2066924 **LCS:** 20504421 3/16/2007 7:46:00 PM

Batch: 82846 **MS:** 20504422 3/17/2007 5:47:00 AM

Units: ug/kg **Original for MS:** 20502391 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Dinoseb	166.7	182.8		110			196.4	778.40	938.6	669.2	82	0 *	34 *	10 - 188	10 - 189	20	

1 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Method: EPA 8151 **Project:** 2066924 **LCS:** 20504607 3/17/2007 8:04:00 AM

Batch: 82900 **MS:** 20504608 3/17/2007 8:31:00 AM

Units: ug/kg **Original for MS:** 20502698 Project Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Dinoseb	166.7	175.3		105			204.3	0.00	251.4	218.8	123	107	14	10 - 188	10 - 189	20	

1 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Method: EPA 8151 **Project:** 2066924 **LCS:** 20507845 3/19/2007 10:14:00 PM

Batch: 83529 **MS:**

Units: ug/kg **Original for MS:**

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Dinoseb	166.7	249.1		149										10 - 188	-		

1 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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LELAP # 02006

Report: 2066924 **Batch: 82271**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20501438	BLANK	64	65	58	57				
20501439	LCS	62	62	59	60				
20501440	MS	70	70	67	76				
20501441	MSD	82	81	64	66				
20502704	Sample	52	52	58	56				
20502809	BLANK	55	56	57	54				
20502810	LCS	59	61	56	53				
QC limits:		10-157	10-157	18-171	18-171				

Sur 1: Decachlorobiphenyl (Conf)(S)
Sur 2: Decachlorobiphenyl (S)
Sur 3: Tetrachloro-m-xylene (Conf)(S)
Sur 4: Tetrachloro-m-xylene (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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Report: 2066924 **Batch: 82528**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20502704	Sample	40	42						
20502803	BLANK	98	127						
20502804	LCS	70	59						
20502974	BLANK	96	98						
20502975	LCS	109	119						
20503122	OQS	97	92						
20503149	BLANK	122	118						
20503150	LCS	125	124						
20503327	MS	125	122						
20503328	MSD	114	110						
	QC limits:	10-181	10-181						

Sur 1: 2,4-DCPA (Conf)(S)
Sur 2: 2,4-DCPA (S)

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A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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Report: 2066924 **Batch: 82794**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20502391	OQS D1	76	118	60	37				
20502692	Sample	84	78	53	53				
20502693	Sample	88	83	62	61				
20502694	Sample	70	66	47	46				
20502695	Sample N	3 *	2 *	1 *	3 *				
20502696	Sample	57	59	22	21				
20502697	Sample	58	59	44	48				
20504039	BLANK	88	74	48	48				
20504040	LCS	89	74	52	47				
20504041	MS	66	88	44	45				
20504042	MSD	82	108	49	48				
	QC limits:	15-172	15-172	10-151	10-151				

Sur 1: Decachlorobiphenyl (Conf)(S)
Sur 2: Decachlorobiphenyl (S)
Sur 3: Tetrachloro-m-xylene (Conf)(S)
Sur 4: Tetrachloro-m-xylene (S)

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A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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Report: 2066924 **Batch: 82846**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20502391	OQS D2	0 D	0 D						
20502692	Sample	19	20						
20502693	Sample	18	18						
20502694	Sample N	0 *	0 *						
20502695	Sample N	0 *	0 *						
20502696	Sample N	0 *	0 *						
20502697	Sample N	0 *	0 *						
20502699	Sample	19	18						
20504420	BLANK	22	23						
20504421	LCS	108	111						
20504422	MS D2,Q	0 D	0 D						
20504423	MSD D2,Q	0 D	0 D						
	QC limits:	10-191	10-191						

Sur 1: 2,4-DCPA (Conf)(S)
Sur 2: 2,4-DCPA (S)

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A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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LELAP # 02006

Report: 2066924 **Batch: 82900**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20502698	OQS G1	13	9 *						
20502700	Sample	47	26						
20504606	BLANK	89	93						
20504607	LCS	117	142						
20504608	MS	95	104						
20504609	MSD	80	80						
	QC limits:	10-191	10-191						

Sur 1: 2,4-DCPA (Conf)(S)
Sur 2: 2,4-DCPA (S)

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A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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LELAP # 02006

Report: 2066924 **Batch: 82901**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20502698	OQS	124	81	82	87				
20502699	Sample	88	82	72	76				
20502700	Sample	106	95	86	89				
20504611	BLANK	202 *	127	85	87				
20504613	MS	90	90	67	71				
20504614	MSD	90	92	73	79				
	QC limits:	15-172	15-172	10-151	10-151				

Sur 1: Decachlorobiphenyl (Conf)(S)
Sur 2: Decachlorobiphenyl (S)
Sur 3: Tetrachloro-m-xylene (Conf)(S)
Sur 4: Tetrachloro-m-xylene (S)

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A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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Report: 2066924 **Batch: 83257**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20502695	Sample N	85	86	69	68				
20506326	BLANK	100	95	79	80				
20506327	LCS	84	85	70	66				
	QC limits:	15-172	15-172	10-151	10-151				

Sur 1: Decachlorobiphenyl (Conf)(S)
Sur 2: Decachlorobiphenyl (S)
Sur 3: Tetrachloro-m-xylene (Conf)(S)
Sur 4: Tetrachloro-m-xylene (S)

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A Lab ID with a MSD suffix is a matrix spike duplicate.

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LELAP # 02006

Report: 2066924 **Batch: 83529**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20502694	Sample N	9 *	5 *						
20502695	Sample N	29	34						
20502696	Sample N	14	15						
20502697	Sample N	5 *	10						
20507844	BLANK	146	155						
20507845	LCS	109	107						
	QC limits:	10-191	10-191						

Sur 1: 2,4-DCPA (Conf)(S)
Sur 2: 2,4-DCPA (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

3/20/2007 17:19:45

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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New Orleans Laboratory

Report of Method Blank

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20502809
Description: 8081 Pests Water **Project No.:** 2066924
Method: EPA 8081 **Batch:** 82271 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 19-Feb-07 **Analyzed:** 03/05/07 17:59 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
8001-35-2	Toxaphene	1	ND		2.00

1 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/20/2007 17:19:48

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
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Kansas Dept. of Health Environment - E-10266
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Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20503149

Description: 8151 Herbs Water **Project No.:** 2066924

Method: EPA 8151 **Batch:** 82528 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 22-Feb-07 **Analyzed:** 02/28/07 05:48 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
94-75-7	2,4-D	1	ND		2.00
127-20-8	Dalapon	1	ND		10.0
94-82-6	2,4-DB	1	ND		5.00
1918-00-9	Dicamba	1	ND		0.500
120-36-5	Dichloroprop	1	ND		2.00
88-85-7	Dinoseb	1	ND		2.00
94-74-6	MCPA	1	ND		250.
7085-19-0	MCPP	1	ND		250.
93-76-5	2,4,5-T	1	ND		0.500
93-72-1	2,4,5-TP (Silvex)	1	ND		0.500

10 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/20/2007 17:19:48

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0681
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Kansas Dept. of Health Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20504039
Description: 8081 Pests Low Soil **Project No.:** 2066924
Method: EPA 8081 **Batch:** 82794 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 27-Feb-07 **Analyzed:** 02/28/07 19:32 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
8001-35-2	Toxaphene	1	ND		66.7

1 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/20/2007 17:19:48

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
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Kansas Dept. of Health .Environment - E-10266
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Report of Method Blank

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20504420
Description: 8151 Herbs Low Soil **Project No.:** 2066924
Method: EPA 8151 **Batch:** 82846 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 28-Feb-07 **Analyzed:** 03/10/07 20:25 SPP1 (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
88-85-7	Dinoseb	1	ND		40.0

1 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/20/2007 17:19:48

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1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20504606
Description: 8151 Herbs Low Soil **Project No.:** 2066924
Method: EPA 8151 **Batch:** 82900 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 01-Mar-07 **Analyzed:** 03/15/07 20:36 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
88-85-7	Dinoseb	1	ND		40.0

1 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/20/2007 17:19:48

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20504611

Description: 8081 Pests Low Soil **Project No.:** 2066924

Method: EPA 8081 **Batch:** 82901 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 01-Mar-07 **Analyzed:** 03/09/07 18:46 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
8001-35-2	Toxaphene	1	ND		66.7

1 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/20/2007 17:19:48

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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Report of Method Blank

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20506326

Description: 8081 Pests Low Soil **Project No.:** 2066924

Method: EPA 8081 **Batch:** 83257 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 08-Mar-07 **Analyzed:** 03/09/07 16:18 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
8001-35-2	Toxaphene	1	ND		66.7

1 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/20/2007 17:19:48

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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Report of Method Blank

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20507844
Description: 8151 Herbs Low Soil **Project No.:** 2066924
Method: EPA 8151 **Batch:** 83529 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 16-Mar-07 **Analyzed:** 03/19/07 21:46 SRA (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
94-75-7	2,4-D	1	ND		66.7
127-20-8	Dalapon	1	ND		200.
94-82-6	2,4-DB	1	ND		100.
1918-00-9	Dicamba	1	ND		10.0
120-36-5	Dichloroprop	1	ND		66.7
88-85-7	Dinoseb	1	ND		40.0
94-74-6	MCPA	1	ND		6670
7085-19-0	MCPP	1	ND		6670
93-76-5	2,4,5-T	1	21.1		10.0
93-72-1	2,4,5-TP (Silvex)	1	ND		10.0

10 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/20/2007 17:19:48

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environment - E-10266
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Report of Quality Control

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2066924

Parameter	Batch	Blank	ARL	Units	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS DUP RPD	QC Limits LCS	QC Limits MS/MSD	RPD Max	Qu
Arsenic	82574	ND	10.0	ug/L	1000	99			1000	98	104	6	79 - 122	68 - 130	20	
Arsenic	82643	ND	1.00	mg/kg	100	105			117.9	95	93	6	71 - 131	46 - 137	20	

3/20/2007 17:19:51

ARL denotes Adjusted Reporting Limit , corrected for sample size, dilution and moisture content as applicable.
* denotes recovery outside of QC limits.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health .Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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Report Qualifiers

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2066924

ALL Qualifiers

Qualifier	Qualifier Description
N	See narrative for a detailed explanation.

Analyte Qualifiers

Qualifier	Qualifier Description
A7	3-Methylphenol and 4-methylphenol coelute under the conditions used for analysis, therefore the precise isomer in the sample cannot be determined. The sample concentration is arbitrarily reported as 4-methylphenol.
A10	N-Nitrosodiphenylamine is reported as diphenylamine.
A11	This analyte is a common solvent. Its presence in field samples may be an artifact of sample collection, transport, laboratory storage or analysis.
G1	Interferences are present which caused poor surrogate recovery.
J	This estimated value for the analyte is below the adjusted reporting limit but above the instrument reporting limit.

General Qualifiers

Qualifier	Qualifier Description
D2	The analysis was performed at a dilution due to the presence of matrix interferences.

QC Qualifiers

Qualifier	Qualifier Description
Q1	The matrix spike recoveries are poor. Acceptable method performance for this analyte has been demonstrated by the laboratory control sample recovery.
Q10	The spike recovery was above the laboratory QC limits, however, the data are reported without qualification since the target analyte was not detected in the corresponding samples.
Q3	The matrix spike recoveries are poor due to the presence of this analyte in the sample at a concentration greater than 4 times the spiked amount. Acceptable method performance for this analyte has been demonstrated by the laboratory control sample.
Q5	Insufficient sample was provided to perform matrix spike analyses on any sample in this analytical batch. Method performance for this analyte has been demonstrated by the laboratory control sample recovery.

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

2066924

Page: 1 of 2

Section A Required Client Information:

Company: ARCADIS	
Address: 10352 Plaza Americana Drive	
Baton Rouge, Louisiana 70816	
Email To: Craig.Derouen@arcadis-us.com; Jane.Kennedy@arcadis-us.com	
Phone: (225) 292-1004 Fax: (225) 218-9677	
Requested Due Date/TAT: Standard	

Section B Required Project Information:

Report To: Craig Derouen	
Copy To: Jane Kennedy	
Purchase Order No.:	
Project Name: MS Bluffs (Vicksburg, MS)	
Project Number: LA002656.0001	

Section C Invoice Information:

Attention: ARCADIS - Accounts Payable	
Company Name: ARCADIS	
Address: 10352 Plaza Americana; Baton Rouge, LA 70819	
Pace Quote Reference:	
Pace Project Manager: Cindy Olavesen (504-305-3626)	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER MDEQ TRGs

SITE LOCATION ☐ GA ☐ IL ☐ IN ☐ MI ☐ NC ☐ OH ☐ SC ☐ WI ☑ OTHER MS

Section D Required Client Information

SAMPLE ID
One Character per box.
(A-Z, 0-9 / ,-)
Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Filtered (Y/N)	Requested Analysis: VOC (8260, App IX)	SVOC (8270)	Pesticides (8081B)	Metals	Residual Chlorine (Y/N)	Pace Project Number / Lab I.D.
1	GP-SB-17(0-2)	SL	G	2/1/07	0755				3	X									1	1		1		70502690
2	GP-SB-17(2-4)	"	"	"	0805				3	X									1	1		1		691
3	GP-SB-18(0-2)	"	"	"	0840				3	X									1	1		1		692
4	GP-SB-18(2-4)	"	"	"	0850				3	X									1	1		1		693
5	GP-SB-19(0-2)	"	"	"	0920				3	X									1	1		1		694
6	GP-SB-19(2-4)	"	"	"	0930				3	X									1	1		1		695
7	GP-SB-20(0-2)	"	"	"	1020				3	X									1	1		1		696
8	GP-SB-20(2-4)	"	"	"	1030				3	X									1	1		1		697
9	GP-SB-21(0-2)	"	"	"	1315				9	X									3	3		3	698	Trip blank was missed
10	GP-SB-21(2-4)	"	"	"	1330				3	X									1	1		1		699
11	GP-SB-DUP-03	"	"	"	—				3	X									1	1		1		700
12	TB-GP-SB-03	WT	"	"	—				2				X						2					702

Additional Comments:

MDEQ Tier 1 TRG Detection Limits

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature]	2/16/07	1445	[signature] PACE	2/16/07	1445
[signature]	2/16/07	1545	MJ Miller/Pace	2-16-07	1545

SAMPLE CONDITIONS

Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
2.0	(Y)	(Y)	(Y)
2.1	(Y)	(Y)	(Y)
2.2	(Y)	(Y)	(Y)
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

3 coolers

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kristie Montgomery

SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 2/16/07

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CHAIN-OF-CUSTODY / Analytical Request Document

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206924

Page: 2 of 2

Section A Required Client Information:

Company: ARCADIS	
Address: 10352 Plaza Americana Drive	
Baton Rouge, Louisiana 70816	
Email To: Craig.Derouen@arcadis-us.com; Jane.Kennedy@arcadis-us.com	
Phone: (225) 292-1004 Fax: (225) 218-9677	
Requested Due Date/TAT: Standard	

Section B Required Project Information:

Report To: Craig Derouen	
Copy To: Jane Kennedy	
Purchase Order No.:	
Project Name: MS Bluffs (Vicksburg, MS)	
Project Number: LA002656.0001	

Section C Invoice Information:

Attention: ARCADIS - Accounts Payable	
Company Name: ARCADIS	
Address: 10352 Plaza Americana; Baton Rouge, LA 70819	
Pace Quote Reference:	
Pace Project Manager: Cindy Olavesen (504-305-3626)	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER MDEQ TRGs

SITE LOCATION ☐ GA ☐ IL ☐ IN ☐ MI ☐ NC ☐ OH ☐ SC ☐ W ☑ OTHER MS

Section D Required Client Information

SAMPLE ID
One Character per box.
(A-Z, 0-9 / ,-)
Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Filtered (Y/N)	Requested Analysis: VOC (8260); App IX	SVOC (8270)	Pest(8081)/Herb(8151)	Metals	Residual Chlorine (Y/N)	Pace Project Number / Lab I.D.
1	GP-SB-FB-03	WT	G	2-15-07	1245				3				X						3					2502703
2	GP-SB-RB-03	WT	G	"	1308				11	X		X	X						3	3	4	1			704
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

Additional Comments:

MDEQ Tier 1 TRG Detection Limits

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature]	2/16/07	1445	[signature] PACE	2/16/07	1445
[signature]	2/16/07	1540	[signature] / Pace	2-16-07	1545

SAMPLE CONDITIONS

Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
2.6	Y/N	Y/N	Y/N
3.2	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kipper Montgomery

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 2/16/07

3 coolers

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CHAIN-OF-CUSTODY / Analytical Request Document

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206924

Page: 1 of 2

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Pace Quote Reference:	
Pace Project Manager: Cindy Olavesen (504-305-3626)	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER MDEQ TRGs

SITE LOCATION ☐ GA ☐ IL ☐ IN ☐ MI ☐ NC ☐ OH ☐ SC ☑ WI ☐ OTHER MS

Section D Required Client Information

SAMPLE ID
One Character per box.
(A-Z, 0-9 / ,-)
Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL WP
WIPE	AR
AIR	OT
OTHER	TS
TISSUE	

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analyses: VOC (8260; App IX)	SVOC (8270)	Pesticides (8081A)	Herbicides (8151A)	Metals	Residual Chlorine (Y/N)	Pace Project Number / Lab I.D.
1	GP-SB-17(0-2)	SL	G	2/15/07	0755				3	X								1	1			1		20502690
2	GP-SB-17(2-4)	"	"	"	0805				3	X								1	1			1		691
3	GP-SB-18(0-2)	"	"	"	0840				3	X								1	1			1		692
4	GP-SB-18(2-4)	"	"	"	0850				3	X								1	1			1		693
5	GP-SB-19(0-2)	"	"	"	0920				3	X								1	1			1		694
6	GP-SB-19(2-4)	"	"	"	0930				3	X								1	1			1		695
7	GP-SB-20(0-2)	"	"	"	1020				3	X								1	1			1		696
8	GP-SB-20(2-4)	"	"	"	1030				3	X								1	1			1		697
9	GP-SB-21(0-2)	"	"	"	1315				9	X								3	3			3	698	Trip blank not listed
10	GP-SB-21(2-4)	"	"	"	1230				3	X								1	1			1		699
11	GP-SB-DUP-03	"	"	"	—				3	X								1	1			1		700
12	TB-GP-SB-03	WT	"	"	—				2				X					2						702

Additional Comments:

MDEQ Tier 1 TRG Detection Limits

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature]	2/16/07	1445	[signature] PACE	2/16/07	1445
[signature]	2/16/07	1545	M Mullen / Pace	2-16-07	1545

SAMPLE CONDITIONS

Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
2.0	Y/N	Y/N	Y/N
3.2	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kippe Montgomery

SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 2/16/07

9 coolers

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

2066924

Page: 2 of 2

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: ARCADIS	Report To: Craig Derouen	Attention: ARCADIS - Accounts Payable
Address: 10352 Plaza Americana Drive	Copy To: Jane Kennedy	Company Name: ARCADIS
Baton Rouge, Louisiana 70816		Address: 10352 Plaza Americana; Baton Rouge, LA 70819
Email To: Craig.Derouen@arcadis-us.com; Jane.Kennedy@arcadis-us.com	Purchase Order No.:	Pace Quote Reference:
Phone: (225) 292-1004 Fax: (225) 218-9677	Project Name: MS Bluffs (Vicksburg, MS)	Pace Project Manager: Cindy Olavesen (504-305-3626)
Requested Due Date/TAT: Standard	Project Number: LA002656.0001	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER MDEQ TRGs

SITE LOCATION ☐ GA ☐ IL ☐ IN ☐ MI ☐ NC ☐ OH ☐ SC ☑ WI ☐ OTHER MS

Section D Required Client Information

SAMPLE ID

One Character per box.
(A-Z, 0-9 / ,-)
Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Filtered (Y/N)	Requested Analysis: VOC (8260; App IX)	SVOC (8270)	Pest/8081)/Herb(8151)	Metals	Residual Chlorine (Y/N)	Pace Project Number / Lab I.D.
1	GP-SB-FB-03	WT	G	2-15-07	1245				3				X						3					2050703
2	GP-SB-RB-03	WT	G	"	1308				11	X		X	X						3	3	4	1		704
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

Additional Comments:

MDEQ Tier 1 TRG Detection Limits

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature]	2/16/07	1445	[signature] Pace	2/16/07	1445
[signature]	2/16/07	1541	[signature] Pace	2-16-07	1545

SAMPLE CONDITIONS

Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
2.1	Y/N	Y/N	Y/N
3.0	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kieya Montgomery

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 2/16/07

Coolers

ANALYTICAL DATA VALIDATION CHECKLIST **Former Vicksburg Chemical Company**

SDG NUMBER(s)	**2066924**	
Sample Date(s):	02/15/07	
Sample Team:	ARCADIS	
Sample Matrix:	Water	
Analyzing Laboratories:	Pace Analytical Services (New Orleans, Asheville, and Charlotte)	
Analyses: Project-Specific Compound Lists	**USEPA Methods:** 8260 Volatile Organic Compounds (VOCs) 8270 Semivolatile Organic Compounds (SVOCs)	8151 (Herbicides) 8081 (Pesticides) 6010 (Metals)
Report Content Level:	Contract Laboratory Program (CLP) Type including raw data	

ARCADIS U.S., Inc.
3850 N. Causeway Blvd.
Suite 1600
Metairie, LA 70002
Tel. 504 832 4174
Fax 504 832 2145

ENVIRONMENT

Project Number:
LA002656.0001.00012

Review of field data, field notes, and sampling logs was conducted separately. Analytical data were evaluated in accordance with applicable U.S. Environmental Protection Agency (USEPA) method-specific criteria and/or laboratory Standard Operating Procedures (SOPs), *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (July 2002), *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review* (October 1999), *Quality Assurance Project Plan* (September 2006), the analytical laboratory Quality Assurance (QA) control limits, *Site Baseline Sampling Work Plan* (January 2007), and professional judgment.

This data verification was performed at a **Level 1** and included review of data package completeness, method blanks, holding time compliance, field duplicate precision, and field Quality Control (QC) sample evaluation. Only QA/QC results and analytical data associated with analytes/compounds of interest were reviewed for this validation.

The data package review included analytical results and associated QC data for all samples in the listed Sample Delivery Group(s) unless otherwise noted.

The following samples were included in this Validation:

SDG	Sample ID	Sample Type	Sample Collection Date	Parent Sample
2066924	GP-SB-17(0-2)	Soil	02/15/07	
2066924	GP-SB-17(2-4)	Soil	02/15/07	
2066924	GP-SB-18(0-2)	Soil	02/15/07	
2066924	GP-SB-18(2-4)	Soil	02/15/07	
2066924	GP-SB-19(0-2)	Soil	02/15/07	
2066924	GP-SB-19(2-4)	Soil	02/15/07	
2066924	GP-SB-20(0-2)	Soil	02/15/07	
2066924	GP-SB-20(2-4)	Soil	02/15/07	
2066924	GP-SB-21(0-2)	Soil	02/15/07	
2066924	GP-SB-21(2-4)	Soil	02/15/07	
2066924	GP-SB-DUP-03	Soil	02/15/07	GP-SB-21(2-4)
2066924	TB-GP-SB-03	Water	02/15/07	
2066924	GP-SB-FB-03	Water	02/15/07	
2066924	GP-SB-RB-03	Water	02/15/07	

ANALYTICAL DATA PACKAGE DOCUMENTATION
GENERAL INFORMATION

Item Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt information		X		X	
2. Sample results		X		X	
3. Parameters analyzed		X		X	
4. Methods of analysis		X		X	
5. Reporting limits of analysis		X		X	
6. Master tracking list		X		X	
7. Sample collection date		X		X	
8. Laboratory sample received date		X		X	
9. Sample preservation		X		X	
10. Sample preparation/extraction date		X		X	
11. Sample analysis date		X		X	
12. Copy of Chain-of-Custody form signed by laboratory sample custodian		X		X	
13. Narrative summary of QA or sample problems provided		X		X	

QA - Quality Assurance

Comments:

All samples referenced in this report were analyzed by various divisions of Pace Analytical Services.

Performance was acceptable, with the following exceptions and/or notes:

Note: The laboratory had not completed Method Detection Limit (MDL) studies for Atrazene, Cyanazine, or Toxaphene.

5. The laboratory reported values between the MDL and the Reporting Limit (RL) as estimated except for Toxaphene, Atrazene, and Cyanazine. If the compound was not detected, the analytical report lists the result as non-detect at the quantitative reporting limit.

VOLATILE ORGANIC COMPOUNDS

Item Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
1. Holding Times		X		X	
2. Reporting Limits		X		X	
3. Blanks					
A. Method Blanks		X		X	
B. Equipment Blanks/Rinsate Blanks		X	X		
C. Field Blanks		X		X	
D. Trip Blanks		X		X	
4. Field Duplicate Precision (RPD)		X		X	
5. Narrative Notations of Potential Impact	X				X

RPD - relative percent difference

Comments:

This section presents the review of USEPA Method 8260 Volatile Organic Compounds (VOCs). Performance was acceptable, with the following exceptions and/or notes:

Note: The Appendix IX compound list was reported.

3B. Acetone was detected in GP-SB-RB-03. The associated field samples are qualified as non-detect (UB) for Acetone if the sample concentration is less than 10 times the blank value.

4. GP-SB-DUP-03 was collected as a field duplicate of GP-SB-21(2-4). The RPDs were acceptable.

SEMIVOLATILE ORGANIC COMPOUNDS

Item Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
1. Holding Times		X	X		
2. Reporting Limits		X		X	
3. Blanks					
A. Method Blanks		X		X	
B. Equipment Blanks/Rinsate Blanks		X		X	
C. Field Blanks	X				X
4. Field Duplicate Precision (RPD)		X			
5. Narrative Notations of Potential Impact		X		X	

RPD - relative percent difference

Comments:

The following section was reviewed and completed for USEPA Method 8270 Semivolatile Organic Compounds (SVOCs). Performance was acceptable, with the following exceptions and/or notes:

Notes: A project-specific list of compounds was reported.

1. Two surrogate recoveries were below 10% in the initial analysis of GP-SB-19(2-4). The sample was re-extracted 5 days beyond the acceptable hold time. The surrogate recoveries were acceptable. The results will be reported from the re-analysis and all results will be qualified as estimated.

4. GP-SB-DUP-03 was collected as a field duplicate of GP-SB-21(2-4). The RPDs were acceptable at non-detect.

PESTICIDES AND HERBICIDES

Item Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
1. Holding Times		X	X		
2. Reporting Limits		X		X	
3. Blanks					
A. Method Blanks		X		X	
B. Equipment Blanks/Rinsate Blank		X		X	
C. Field Blanks	X				X
4. Field Duplicate Precision (RPD)		X		X	
5. Narrative Notations of Potential Impact		X		X	

RPD - relative percent difference

Comments:

The following section was reviewed and completed for USEPA Method 8151 (Herbicides) Dinoseb only and Method 8081 (Pesticides) Toxaphene only. Performance was acceptable, with the following exceptions and/or notes:

1. GP-SB-19(2-4) was re-extracted 7 days beyond the recommended holding time for Toxaphene due to surrogate failure in the initial analysis. The surrogates were acceptable in the re-analysis. The re-analysis will be used and Toxaphene is qualified as estimated in GP-SB-19(2-4).

   GP-SB-19(0-2) was re-extracted 14 days beyond the recommended holding time for Dinoseb due to surrogate failure in the initial analysis. The surrogate recoveries were still below 10% in the re-analysis. The original analysis will be used and the sample is qualified as rejected for Dinoseb.

   GP-SB-19(2-4) and GP-SB-20(0-2) were re-extracted 14 days beyond the recommended holding time for Dinoseb due to surrogate failure in the initial analyses. The surrogate recoveries were acceptable in the re-analysis. The results will be reported from the re-analysis and Dinoseb is qualified as estimated in GP-SB-19(2-4) and GP-SB-20(0-2).

   GP-SB-20(2-4) was re-extracted 14 days beyond the recommended holding time for Dinoseb due to surrogate failure in the initial analysis. One surrogate recovery was still below 10% in the re-analysis. The original analysis will be used and the sample is qualified as rejected for Dinoseb.

4. GP-SB-DUP-03 was collected as a field duplicate of GP-SB-21(2-4). The RPDs were acceptable at non-detect.

METALS

Item Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
1. Holding Times		X		X	
2. Reporting Limits		X		X	
3. Blanks					
A. Method Blanks		X		X	
B. Equipment Blanks/Rinsate Blanks		X		X	
C. Field Blanks	X				X
4. Field Duplicate Precision (RPD)		X		X	
5. Narrative Notations of Potential Impact		X		X	

RPD - relative percent difference

Comments:

The following section was reviewed and completed for USEPA Method 6010 (Total). Performance was acceptable, with the following exceptions and/or notes:

4. GP-SB-DUP-03 was collected as a field duplicate of GP-SB-21(2-4). The RPD was acceptable at non-detect.

VALIDATION QUALIFICATION SUMMARY

Data values presented in the following table were qualified due to QC deficiencies. The table indicates compounds/analytes qualified based on validation reviews conducted in accordance with the level of review referenced on page 1 of this checklist. Refer to the associated method section of the validation checklist for a detailed explanation of qualification. All other data are considered quantitative.

The following data qualifiers with applicable definitions were applied in this data validation:

UB - compound/analyte detected in blank or associated blank.

J - the analyte was positively identified, but the associated numerical value is the approximate concentration of the analyte in the sample.

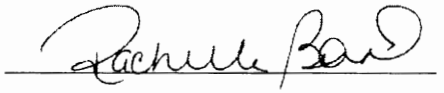
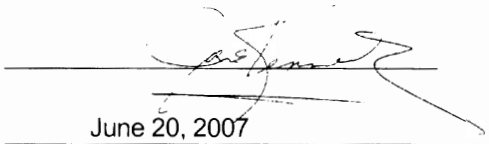
UJ - the analyte was not detected above the reporting limit; however, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R - the sample result is rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria, and the presence or absence of the analyte cannot be verified.

All other data satisfy validation criteria and are considered to be quantitative.

Sample ID	Parameter	Result	Units	Qualifier	Reason
GP-SB-17(2-4)	Acetone	16.2	µg/kg	UB	Blank Contamination
GP-SB-18(0-2)	Acetone	21.0	µg/kg	UB	Blank Contamination
GP-SB-18(2-4)	Acetone	17.1	µg/kg	UB	Blank Contamination
GP-SB-21(0-2)	Acetone	11.9	µg/kg	UB	Blank Contamination
GP-SB-19(2-4)	All SVOCs	<415.0	µg/kg	UJ	Holding Time Exceedance
GP-SB-19(2-4)	Toxaphene	<83.2	µg/kg	UJ	Holding Time Exceedance
GP-SB-19(0-2)	Dinoseb	<48.0	µg/kg	R	Surrogate Recovery
GP-SB-19(2-4)	Dinoseb	<49.9	µg/kg	UJ	Holding Time Exceedance
GP-SB-20(0-2)	Dinoseb	<47.8	µg/kg	UJ	Holding Time Exceedance
GP-SB-20(2-4)	Dinoseb	<50.2	µg/kg	R	Surrogate Recovery

SVOC Semivolatile Organic Compound.
µg/kg Micrograms per Kilogram.

VALIDATION PERFORMED BY:	Rachelle Borne
SIGNATURE:	
DATE:	June 20, 2007
PEER REVIEW:	Jane Kennedy
SIGNATURE:	
DATE:	June 20, 2007

Pace Analytical®
New Orleans Laboratory

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

March 20, 2007

Craig Derouen
Arcadis Geraghty & Miller
10352 Plaza Americana Drive
Baton Rouge, LA 70816

RE: Project: 2066930
RE: Project ID: MS BLUFFS/LA002656.1.15

Dear Craig Derouen:

Enclosed are the analytical results for sample(s) received by the laboratory on February 16, 2007. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Cindy Olavesen

Cindy Olavesen

ACCREDITED IN ACCORDANCE WITH nelac

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, execpt in full, without the written consent of Pace Analytical Services, Inc.

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Pace Analytical®
New Orleans Laboratory

Report of Laboratory Analysis

Project Number: 2066930

ACCREDITED IN ACCORDANCE WITH nelac

3/20/2007 16:12:20

Pace Analytical®
New Orleans Laboratory

Sample Cross Reference Report

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.1.15

Project No.: 2066930

Sample ID	Lab ID	Matrix	Collection Date/Time		Received Date/Time	
S/S-04 (0-2)	20502749	Soil	02/15/2007	10:00	02/16/2007	15:45
S/S-05 (0-2)	20502750	Soil	02/15/2007	16:15	02/16/2007	15:45
S/S-06 (0-2)	20502751	Soil	02/15/2007	16:30	02/16/2007	15:45
S/S-07 (0-2)	20502752	Soil	02/15/2007	16:45	02/16/2007	15:45
S/S-08 (0-2)	20502753	Soil	02/15/2007	17:00	02/16/2007	15:45
S/S-09 (0-2)	20502754	Soil	02/15/2007	17:15	02/16/2007	15:45
S/S-10 (0-2)	20502755	Soil	02/15/2007	17:30	02/16/2007	15:45
S/S-16 (0-2)	20502756	Soil	02/16/2007	07:25	02/16/2007	15:45
S/S-17 (0-2)	20502757	Soil	02/16/2007	07:40	02/16/2007	15:45
S/S-18 (0-2)	20502758	Soil	02/16/2007	07:55	02/16/2007	15:45
S/S-21 (0-2)	20502759	Soil	02/16/2007	08:20	02/16/2007	15:45
S/S-20 (0-2)	20502760	Soil	02/16/2007	08:35	02/16/2007	15:45
S/S-19 (0-2)	20502761	Soil	02/16/2007	08:50	02/16/2007	15:45
S/S-15 (0-2)	20502765	Soil	02/16/2007	09:45	02/16/2007	15:45
S/S-14 (0-2)	20502766	Soil	02/16/2007	10:00	02/16/2007	15:45
S/S-13 (0-2)	20502767	Soil	02/16/2007	10:15	02/16/2007	15:45
S/S-12 (0-2)	20502771	Soil	02/16/2007	10:35	02/16/2007	15:45
S/S-11 (0-2)	20502772	Soil	02/16/2007	10:55	02/16/2007	15:45

3/20/2007 16:12:23

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

Pace Analytical
New Orleans Laboratory

Project Narrative

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: **2066930**

Narrative detail for GC semi-volatilves analyses:

Dinoseb is a poor performer; QC recovery data may be poor or erratic as demonstrated by performance-based statistical evaluation.

Dinoseb was high biased in the closing standard that followed several samples in batch 82900; since there was no hit for dinoseb in these samples no corrective action was necessary.

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
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Pace Analytical
New Orleans Laboratory

Project Narrative

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: **2066930**

Sample Receipt Condition:

All samples were received in accordance with EPA protocol.

Holding Times:

All holding times were met.

Blanks:

All blank results were below reporting limits.

Laboratory Control Samples:

All LCS recoveries were within QC limits

Matrix Spikes and Duplicates:

MS or MSD recoveries outside of QC limits are qualified in the Report of Quality Control section.

Surrogates:

Surrogate recoveries outside of QC limits are qualified in the surrogate results section.

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

Pace Analytical®
New Orleans Laboratory

Project Narrative

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2066930

Analytical Method	Batch	Sample used for QC
EPA 8151	82900	Client sample GP-SB-21 (0-2) from project 2066924
EPA 8081	82901	Client sample GP-SB-21 (0-2) from project 2066924
EPA 8081	82903	Project sample S/S-11 (0-2)
EPA 6010	82645	Client sample S/S-02 (0-6) from project 2066967
EPA 6010	82645	Client sample S/S-01 (0-2) from project 2066967
% Moisture	82662	Client sample S/S-02 (0-6) from project 2066967

For the sample used as the original for the DUP or MS/MSD for the batch:

Project sample means a sample from this project was used.
Client sample means a sample from the same client but in a different project was used.
Batch sample means a sample from the a different client was used.

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0681
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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: S/S-04 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.1.15 **Project No.:** 2066930 **Sample Qu:**

Lab ID: 20502749 **Matrix:** Soil **% Moisture:** 21.8 Corrected

Description: None **Prep Level:** Soil **Batch:** 82901

Method: 8081 Pests Low Soil **Units:** ug/kg **Target List:** 8081_SL20

Collected: 02/15/07 **Received:** 02/16/07

Prep Factor: 1 **Prepared:** 03/01/07 **Analyzed:** 03/12/07 21:05 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	10	6010	D1	119.	853.	

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: S/S-05 (0-2)
Site: None
Project: MS BLUFFS/LA002656.1.15
Project No.: 2066930
Sample Qu:
Lab ID: 20502750
Matrix: Soil
% Moisture: 13.2 Corrected
Description: None
Prep Level: Soil
Batch: 82901
Method: 8081 Pests Low Soil
Units: ug/kg
Target List: 8081_SL20
Collected: 02/15/07
Received: 02/16/07
Prep Factor: 1
Prepared: 03/01/07
Analyzed: 03/12/07 21:21 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	10	ND	D2	108.	769.	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: S/S-06 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.1.15 **Project No.:** 2066930 **Sample Qu:**

Lab ID: 20502751 **Matrix:** Soil **% Moisture:** 20.2 Corrected

Description: None **Prep Level:** Soil **Batch:** 82901

Method: 8081 Pests Low Soil **Units:** ug/kg **Target List:** 8081_SL20

Collected: 02/15/07 **Received:** 02/16/07

Prep Factor: 1 **Prepared:** 03/01/07 **Analyzed:** 03/12/07 21:37 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	405.		11.7	83.6	

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: S/S-07 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.1.15 **Project No.:** 2066930 **Sample Qu:**

Lab ID: 20502752 **Matrix:** Soil **% Moisture:** 18.1 Corrected

Description: None **Prep Level:** Soil **Batch:** 82901

Method: 8081 Pests Low Soil **Units:** ug/kg **Target List:** 8081_SL20

Collected: 02/15/07 **Received:** 02/16/07

Prep Factor: 1 **Prepared:** 03/01/07 **Analyzed:** 03/12/07 21:54 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	10	ND	D2	114.	814.	

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
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Client: Arcadis Geraghty & Miller

Client ID: S/S-08 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.1.15 **Project No.:** 2066930 **Sample Qu:**

Lab ID: 20502753 **Matrix:** Soil **% Moisture:** 11.6 Corrected

Description: None **Prep Level:** Soil **Batch:** 82901

Method: 8081 Pests Low Soil **Units:** ug/kg **Target List:** 8081_SL20

Collected: 02/15/07 **Received:** 02/16/07

Prep Factor: 1 **Prepared:** 03/01/07 **Analyzed:** 03/15/07 11:24 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	100	33700	D1	1060	7550	

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
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Client: Arcadis Geraghty & Miller

Client ID: S/S-09 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.1.15 **Project No.:** 2066930 **Sample Qu:**

Lab ID: 20502754 **Matrix:** Soil **% Moisture:** 16.8 Corrected

Description: None **Prep Level:** Soil **Batch:** 82901

Method: 8081 Pests Low Soil **Units:** ug/kg **Target List:** 8081_SL20

Collected: 02/15/07 **Received:** 02/16/07

Prep Factor: 1 **Prepared:** 03/01/07 **Analyzed:** 03/12/07 22:27 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	1000		11.2	80.2	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: S/S-09 (0-2) | **Site:** None

Project: MS BLUFFS/LA002656.1.15 | **Project No.:** 2066930 | **Sample Qu:**

Lab ID: 20502754 | **Matrix:** Soil | **% Moisture:** 16.8 Corrected

Description: None | **Prep Level:** Soil | **Batch:** 82900

Method: 8151 Herbs Low Soil | **Units:** ug/kg | **Target List:** 8151_SL20

Collected: 02/15/07 | **Received:** 02/16/07

Prep Factor: 1 | **Prepared:** 03/01/07 | **Analyzed:** 03/15/07 23:21 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	10	ND	D2	133.	481.	

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Client: Arcadis Geraghty & Miller

Client ID: S/S-10 (0-2)
Site: None
Project: MS BLUFFS/LA002656.1.15
Project No.: 2066930
Sample Qu:
Lab ID: 20502755
Matrix: Soil
% Moisture: 19.3 Corrected
Description: None
Prep Level: Soil
Batch: 82901
Method: 8081 Pests Low Soil
Units: ug/kg
Target List: 8081 SL20
Collected: 02/15/07
Received: 02/16/07
Prep Factor: 1
Prepared: 03/01/07
Analyzed: 03/12/07 22:43 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	1210		11.6	82.7	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: S/S-10 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.1.15 **Project No.:** 2066930 **Sample Qu:**

Lab ID: 20502755 **Matrix:** Soil **% Moisture:** 19.3 Corrected

Description: None **Prep Level:** Soil **Batch:** 82900

Method: 8151 Herbs Low Soil **Units:** ug/kg **Target List:** 8151_SL20

Collected: 02/15/07 **Received:** 02/16/07

Prep Factor: 1 **Prepared:** 03/01/07 **Analyzed:** 03/15/07 23:48 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	10	ND	D2,N	137.	496.	

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Client: Arcadis Geraghty & Miller

Client ID: S/S-16 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.1.15 **Project No.:** 2066930 **Sample Qu:**

Lab ID: 20502756 **Matrix:** Soil **% Moisture:** 22 Corrected

Description: None **Prep Level:** Soil **Batch:** 82901

Method: 8081 Pests Low Soil **Units:** ug/kg **Target List:** 8081_SL20

Collected: 02/16/07 **Received:** 02/16/07

Prep Factor: 1 **Prepared:** 03/01/07 **Analyzed:** 03/12/07 23:00 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		12.0	85.5	

1 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: S/S-16 (0-2)
Site: None

Project: MS BLUFFS/LA002656.1.15
Project No.: 2066930
Sample Qu:

Lab ID: 20502756
Matrix: Soil
% Moisture: 22 Corrected

Description: None
Prep Level: Soil
Batch: 82900

Method: 8151 Herbs Low Soil
Units: ug/kg
Target List: 8151_SL20

Collected: 02/16/07
Received: 02/16/07

Prep Factor: 1
Prepared: 03/01/07
Analyzed: 03/16/07 00:15 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	10	ND	D2,N	142.	513.	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: S/S-17 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.1.15 **Project No.:** 2066930 **Sample Qu:**

Lab ID: 20502757 **Matrix:** Soil **% Moisture:** 19 Corrected

Description: None **Prep Level:** Soil **Batch:** 82901

Method: 8081 Pests Low Soil **Units:** ug/kg **Target List:** 8081_SL20

Collected: 02/16/07 **Received:** 02/16/07

Prep Factor: 1 **Prepared:** 03/01/07 **Analyzed:** 03/12/07 23:16 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		11.5	82.4	

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Client: Arcadis Geraghty & Miller

Client ID: S/S-17 (0-2)
Site: None
Project: MS BLUFFS/LA002656.1.15
Project No.: 2066930
Sample Qu:
Lab ID: 20502757
Matrix: Soil
% Moisture: 19 Corrected
Description: None
Prep Level: Soil
Batch: 82900
Method: 8151 Herbs Low Soil
Units: ug/kg
Target List: 8151_SL20
Collected: 02/16/07
Received: 02/16/07
Prep Factor: 1
Prepared: 03/01/07
Analyzed: 03/16/07 00:43 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND	N	13.7	49.4	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: S/S-18 (0-2)
Site: None
Project: MS BLUFFS/LA002656.1.15
Project No.: 2066930
Sample Qu:
Lab ID: 20502758
Matrix: Soil
% Moisture: 18.1 Corrected
Description: None
Prep Level: Soil
Batch: 82901
Method: 8081 Pests Low Soil
Units: ug/kg
Target List: 8081_SL20
Collected: 02/16/07
Received: 02/16/07
Prep Factor: 1
Prepared: 03/01/07
Analyzed: 03/12/07 23:33 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		11.4	81.4	

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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3/20/2007 16:12:58

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Kansas Dept. of Health Environment - E-10266
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Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: S/S-18 (0-2)
Site: None
Project: MS BLUFFS/LA002656.1.15
Project No.: 2066930
Sample Qu:
Lab ID: 20502758
Matrix: Soil
% Moisture: 18.1 Corrected
Description: None
Prep Level: Soil
Batch: 82900
Method: 8151 Herbs Low Soil
Units: ug/kg
Target List: 8151_SL20
Collected: 02/16/07
Received: 02/16/07
Prep Factor: 1
Prepared: 03/01/07
Analyzed: 03/16/07 15:39 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND		13.5	48.8	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: S/S-21 (0-2)
Site: None
Project: MS BLUFFS/LA002656.1.15
Project No.: 2066930
Sample Qu:
Lab ID: 20502759
Matrix: Soil
% Moisture: 16.5 Corrected
Description: None
Prep Level: Soil
Batch: 82901
Method: 8081 Pests Low Soil
Units: ug/kg
Target List: 8081_SL20
Collected: 02/16/07
Received: 02/16/07
Prep Factor: 1
Prepared: 03/01/07
Analyzed: 03/12/07 23:49 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		11.2	79.9	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: S/S-21 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.1.15 **Project No.:** 2066930 **Sample Qu:**

Lab ID: 20502759 **Matrix:** Soil **% Moisture:** 16.5 Corrected

Description: None **Prep Level:** Soil **Batch:** 82900

Method: 8151 Herbs Low Soil **Units:** ug/kg **Target List:** 8151_SL20

Collected: 02/16/07 **Received:** 02/16/07

Prep Factor: 1 **Prepared:** 03/01/07 **Analyzed:** 03/19/07 16:44 SRA (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	10	852.	D1	133.	479.	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: S/S-20 (0-2)
Site: None
Project: MS BLUFFS/LA002656.1.15
Project No.: 2066930
Sample Qu:
Lab ID: 20502760
Matrix: Soil
% Moisture: 16.1 Corrected
Description: None
Prep Level: Soil
Batch: 82901
Method: 8081 Pests Low Soil
Units: ug/kg
Target List: 8081_SL20
Collected: 02/16/07
Received: 02/16/07
Prep Factor: 1
Prepared: 03/01/07
Analyzed: 03/13/07 00:06 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		11.1	79.5	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: S/S-20 (0-2)
Site: None
Project: MS BLUFFS/LA002656.1.15
Project No.: 2066930
Sample Qu:
Lab ID: 20502760
Matrix: Soil
% Moisture: 16.1 Corrected
Description: None
Prep Level: Soil
Batch: 82900
Method: 8151 Herbs Low Soil
Units: ug/kg
Target List: 8151_SL20
Collected: 02/16/07
Received: 02/16/07
Prep Factor: 1
Prepared: 03/01/07
Analyzed: 03/16/07 16:34 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	10	ND	D2	132.	477.	

1 compound(s) reported

3/20/2007 16:12:58

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: S/S-19 (0-2)
Site: None
Project: MS BLUFFS/LA002656.1.15
Project No.: 2066930
Sample Qu:
Lab ID: 20502761
Matrix: Soil
% Moisture: 18 Corrected
Description: None
Prep Level: Soil
Batch: 82901
Method: 8081 Pests Low Soil
Units: ug/kg
Target List: 8081_SL20
Collected: 02/16/07
Received: 02/16/07
Prep Factor: 1
Prepared: 03/01/07
Analyzed: 03/13/07 00:22 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		11.4	81.3	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: S/S-19 (0-2)
Site: None
Project: MS BLUFFS/LA002656.1.15
Project No.: 2066930
Sample Qu:
Lab ID: 20502761
Matrix: Soil
% Moisture: 18 Corrected
Description: None
Prep Level: Soil
Batch: 82900
Method: 8151 Herbs Low Soil
Units: ug/kg
Target List: 8151_SL20
Collected: 02/16/07
Received: 02/16/07
Prep Factor: 1
Prepared: 03/01/07
Analyzed: 03/16/07 17:01 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	10	ND	D2	135.	488.	

1 compound(s) reported

3/20/2007 16:12:58

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Client: Arcadis Geraghty & Miller

Client ID: S/S-15 (0-2)
Site: None
Project: MS BLUFFS/LA002656.1.15
Project No.: 2066930
Sample Qu:
Lab ID: 20502765
Matrix: Soil
% Moisture: 13 Corrected
Description: None
Prep Level: Soil
Batch: 82901
Method: 8081 Pests Low Soil
Units: ug/kg
Target List: 8081_SL20
Collected: 02/16/07
Received: 02/16/07
Prep Factor: 1
Prepared: 03/01/07
Analyzed: 03/13/07 00:38 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	120.		10.7	76.7	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: S/S-14 (0-2)
Site: None
Project: MS BLUFFS/LA002656.1.15
Project No.: 2066930
Sample Qu:
Lab ID: 20502766
Matrix: Soil
% Moisture: 19 Corrected
Description: None
Prep Level: Soil
Batch: 82901
Method: 8081 Pests Low Soil
Units: ug/kg
Target List: 8081_SL20
Collected: 02/16/07
Received: 02/16/07
Prep Factor: 1
Prepared: 03/01/07
Analyzed: 03/13/07 00:55 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	10	22600	D1	115.	823.	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: S/S-14 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.1.15 **Project No.:** 2066930 **Sample Qu:**

Lab ID: 20502766 **Matrix:** Soil **% Moisture:** 19 Corrected

Description: None **Prep Level:** Soil **Batch:** 82900

Method: 8151 Herbs Low Soil **Units:** ug/kg **Target List:** 8151_SL20

Collected: 02/16/07 **Received:** 02/16/07

Prep Factor: 1 **Prepared:** 03/01/07 **Analyzed:** 03/16/07 18:23 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	200	88100	D1	2740	9870	

1 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: S/S-13 (0-2)
Site: None
Project: MS BLUFFS/LA002656.1.15
Project No.: 2066930
Sample Qu:
Lab ID: 20502767
Matrix: Soil
% Moisture: 15.8 Corrected
Description: None
Prep Level: Soil
Batch: 82901
Method: 8081 Pests Low Soil
Units: ug/kg
Target List: 8081_SL20
Collected: 02/16/07
Received: 02/16/07
Prep Factor: 1
Prepared: 03/01/07
Analyzed: 03/13/07 01:11 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	10	29200	D1	111.	792.	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: S/S-13 (0-2)
Site: None
Project: MS BLUFFS/LA002656.1.15
Project No.: 2066930
Sample Qu:
Lab ID: 20502767
Matrix: Soil
% Moisture: 15.8 Corrected
Description: None
Prep Level: Soil
Batch: 82900
Method: 8151 Herbs Low Soil
Units: ug/kg
Target List: 8151_SL20
Collected: 02/16/07
Received: 02/16/07
Prep Factor: 1
Prepared: 03/01/07
Analyzed: 03/16/07 17:29 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	20	ND	D2	263.	950.	

1 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: S/S-12 (0-2) **Site:** None

Project: MS BLUFFS/LA002656.1.15 **Project No.:** 2066930 **Sample Qu:**

Lab ID: 20502771 **Matrix:** Soil **% Moisture:** 14.7 Corrected

Description: None **Prep Level:** Soil **Batch:** 82901

Method: 8081 Pests Low Soil **Units:** ug/kg **Target List:** 8081_SL20

Collected: 02/16/07 **Received:** 02/16/07

Prep Factor: 1 **Prepared:** 03/01/07 **Analyzed:** 03/15/07 10:28 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	362.		10.9	78.2	

1 compound(s) reported

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DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
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Client: Arcadis Geraghty & Miller

Client ID: S/S-12 (0-2)
Site: None
Project: MS BLUFFS/LA002656.1.15
Project No.: 2066930
Sample Qu:
Lab ID: 20502771
Matrix: Soil
% Moisture: 14.7 Corrected
Description: None
Prep Level: Soil
Batch: 82900
Method: 8151 Herbs Low Soil
Units: ug/kg
Target List: 8151 SL20
Collected: 02/16/07
Received: 02/16/07
Prep Factor: 1
Prepared: 03/01/07
Analyzed: 03/16/07 17:56 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	20	ND	D2	260.	938.	

1 compound(s) reported

3/20/2007 16:12:59

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit denotes an actual regulatory limit or a client-requested notification limit.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: S/S-11 (0-2)
Site: None
Project: MS BLUFFS/LA002656.1.15
Project No.: 2066930
Sample Qu:
Lab ID: 20502772
Matrix: Soil
% Moisture: 13.1 Corrected
Description: None
Prep Level: Soil
Batch: 82903
Method: 8081 Pests Low Soil
Units: ug/kg
Target List: 8081_SL20
Collected: 02/16/07
Received: 02/16/07
Prep Factor: 1
Prepared: 03/01/07
Analyzed: 03/15/07 12:14 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	100	93700	D1	1070	7680	

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
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Client ID: S/S-04 (0-2)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.1.15
Site: None
Lab ID: 20502749
Project No.: 2066930
Description: None
Matrix: Soil
%Moisture: 21.8 Corrected
Collected: 02/15/07
Received: 02/16/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82645	1	11.3		mg/kg	0.453	0.969	02/23	02/28 22:54	KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/20/2007 16:13:02

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Client ID: S/S-05 (0-2)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.1.15
Site: None
Lab ID: 20502750
Project No.: 2066930
Description: None
Matrix: Soil
%Moisture: 13.2 Corrected
Collected: 02/15/07
Received: 02/16/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
Arsenic	EPA 6010	82645	1	3.62		mg/kg	0.528	1.13	02/23	02/28 23:08 KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Client ID: S/S-16 (0-2)
Project: MS BLUFFS/LA002656.1.15
Lab ID: 20502756
Description: None

Client: Arcadis Geraghty & Miller
Site: None
Project No.: 2066930
Matrix: Soil
%Moisture: 22 Corrected
Collected: 02/16/07
Received: 02/16/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82645	1	3.55		mg/kg	0.468	1.00	02/23	02/28 23:13	KJR (1)	

1 parameter(s) reported

3/20/2007 16:13:02

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
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Client ID: S/S-17 (0-2)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.1.15
Site: None
Lab ID: 20502757
Project No.: 2066930
Description: None
Matrix: Soil
%Moisture: 19 Corrected
Collected: 02/16/07
Received: 02/16/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
Arsenic	EPA 6010	82645	1	16.8		mg/kg	0.498	1.06	02/23	02/28 23:17 KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Client ID: S/S-18 (0-2)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.1.15
Site: None
Lab ID: 20502758
Project No.: 2066930
Description: None
Matrix: Soil
%Moisture: 18.1 Corrected
Collected: 02/16/07
Received: 02/16/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
Arsenic	EPA 6010	82645	1	8.70		mg/kg	0.501	1.07	02/23	02/28 23:22 KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Client ID: S/S-21 (0-2)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.1.15
Site: None
Lab ID: 20502759
Project No.: 2066930
Description: None
Matrix: Soil
%Moisture: 16.5 Corrected
Collected: 02/16/07
Received: 02/16/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
Arsenic	EPA 6010	82645	1	5.84		mg/kg	0.528	1.13	02/23	02/28 23:29 KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Client ID: S/S-20 (0-2)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.1.15
Site: None
Lab ID: 20502760
Project No.: 2066930
Description: None
Matrix: Soil
%Moisture: 16.1 Corrected
Collected: 02/16/07
Received: 02/16/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82645	1	6.93		mg/kg	0.506	1.08	02/23	02/28 23:33	KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Client ID: S/S-19 (0-2)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.1.15
Site: None
Lab ID: 20502761
Project No.: 2066930
Description: None
Matrix: Soil
%Moisture: 18 Corrected
Collected: 02/16/07
Received: 02/16/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
Arsenic	EPA 6010	82645	1	5.47		mg/kg	0.500	1.07	02/23	02/28 23:38 KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Method: EPA 8151 **Project:** 2066930 **LCS:** 20504607 3/17/2007 8:04:00 AM

Batch: 82900 **MS:** 20504608 3/17/2007 8:31:00 AM

Units: ug/kg **Original for MS:** 20502698 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Dinoseb	166.7	175.3		105			204.3	0.00	251.4	218.8	123	107	14	10 - 188	10 - 189	20	

1 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Report of Batch Surrogate Recovery

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Phone: 504.469.0333
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LELAP # 02006

Report: 2066930 **Batch: 82900**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20502698	OQS G1	13	9 *						
20502754	Sample D2	0 D	0 D						
20502755	Sample D2	57	59						
20502756	Sample D2	29	30						
20502757	Sample	15	20						
20502758	Sample	21	17						
20502759	Sample D1	41	35						
20502760	Sample D2	17	0 D						
20502761	Sample D2	19	0 D						
20502766	Sample D1	0 D	0 D						
20502767	Sample D2	0 D	0 D						
20502771	Sample D2	0 D	0 D						
20504606	BLANK	89	93						
20504607	LCS	117	142						
20504608	MS	95	104						
20504609	MSD	80	80						
	QC limits:	10-191	10-191						

Sur 1: 2,4-DCPA (Conf)(S)
Sur 2: 2,4-DCPA (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

3/20/2007 16:13:09

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LELAP # 02006

Report: 2066930 **Batch: 82901**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20502698	OQS	124	81	82	87				
20502749	Sample D1,G	96	115	409 D	470 D				
20502750	Sample D2	120	99	80	75				
20502751	Sample	64	62	70	94				
20502752	Sample D2	66	69	68	46				
20502753	Sample D1	0 D	0 D	0 D	0 D				
20502754	Sample G1	11600 *	126	72	74				
20502755	Sample	105	72	64	76				
20502756	Sample	169	101	53	51				
20502757	Sample G1	195 *	103	57	64				
20502758	Sample	122	72	64	62				
20502759	Sample	122	85	76	76				
20502760	Sample	95	71	78	69				
20502761	Sample	101	139	86	93				
20502765	Sample	100	97	76	79				
20502766	Sample D1,G	440 D	159	70	64				
20502767	Sample D1,G	5450 D	77	99	96				
20502771	Sample	96	97	173 *	29				
20504611	BLANK	202 *	127	85	87				
20504613	MS	90	90	67	71				
20504614	MSD	90	92	73	79				
QC limits:		15-172	15-172	10-151	10-151				

Sur 1: Decachlorobiphenyl (Conf)(S)
Sur 2: Decachlorobiphenyl (S)
Sur 3: Tetrachloro-m-xylene (Conf)(S)
Sur 4: Tetrachloro-m-xylene (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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LELAP # 02006

Report: 2066930 **Batch: 82903**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20502772	Sample D1,G	0 D	802 D	0 D	124				
20504622	BLANK	99	101	94	95				
20504623	LCS	97	100	76	90				
20504624	MS G1,Q	195 *	434 *	178 *	166 *				
20504625	MSD G1,Q	184 *	335 *	166 *	160 *				
	QC limits:	15-172	15-172	10-151	10-151				

Sur 1: Decachlorobiphenyl (Conf)(S)
Sur 2: Decachlorobiphenyl (S)
Sur 3: Tetrachloro-m-xylene (Conf)(S)
Sur 4: Tetrachloro-m-xylene (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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Report of Method Blank

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20504606

Description: 8151 Herbs Low Soil **Project No.:** 2066930

Method: EPA 8151 **Batch:** 82900 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 01-Mar-07 **Analyzed:** 03/15/07 20:36 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
88-85-7	Dinoseb	1	ND		40.0

1 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/20/2007 16:13:12

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LELAP # 02006

Lab ID: 20504611

Description: 8081 Pests Low Soil **Project No.:** 2066930

Method: EPA 8081 **Batch:** 82901 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 01-Mar-07 **Analyzed:** 03/09/07 18:46 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
8001-35-2	Toxaphene	1	ND		66.7

1 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20504622

Description: 8081 Pests Low Soil **Project No.:** 2066930

Method: EPA 8081 **Batch:** 82903 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 01-Mar-07 **Analyzed:** 03/09/07 17:24 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
8001-35-2	Toxaphene	1	ND		66.7

1 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Report of Quality Control

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2066930

Parameter	Batch	Blank	ARL	Units	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS DUP RPD	QC Limits LCS	QC Limits MS/MSD	RPD Max	Qu
Arsenic	82645	ND	1.00	mg/kg	100	102			120.8	99	102	4	71 - 131	46 - 137	20	
Arsenic	82645			mg/kg					93.38	0 *	0 *	3	-	46 - 137	20	Q1

3/20/2007 16:13:15

ARL denotes Adjusted Reporting Limit , corrected for sample size, dilution and moisture content as applicable.
* denotes recovery outside of QC limits.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Report Qualifiers

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Phone: 504.469.0333
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LELAP # 02006

Project: 2066930

ALL Qualifiers

Qualifier	Qualifier Description
N	See narrative for a detailed explanation.

Analyte Qualifiers

Qualifier	Qualifier Description
G1	Interferences are present which caused poor surrogate recovery.

General Qualifiers

Qualifier	Qualifier Description
D1	The analysis was performed at a dilution due to the high analyte concentration.
D2	The analysis was performed at a dilution due to the presence of matrix interferences.

QC Qualifiers

Qualifier	Qualifier Description
Q1	The matrix spike recoveries are poor. Acceptable method performance for this analyte has been demonstrated by the laboratory control sample recovery.
Q3	The matrix spike recoveries are poor due to the presence of this analyte in the sample at a concentration greater than 4 times the spiked amount. Acceptable method performance for this analyte has been demonstrated by the laboratory control sample.

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ARCADIS

Laboratory Task Order No./P.O. No. _____ **CHAIN-OF-CUSTODY RECORD** Page 1 of 2

Project Number/Name Miss Bluffs / LA002656.1.15

Project Location Vicksburg, MS

Laboratory PACE

Project Manager Craig Denoon

Sampler(s)/Affiliation K. Montgomery / C. Cook (ARCADIS)

2066930

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	Arsenic *4oz glass jar 4°C	Toxaphene 8oz glass jar 4°C	Toxaphene/Dinoseb 8oz glass jar 4°C				Remarks	Total
S/S-04 (0-2)	S	2/15/07 1600		1	1					205027499	2
S/S-05 (0-2)	S	1615		1	1					750	2
S/S-06 (0-2)	S	1630			1					751	1
S/S-07 (0-2)	S	1645			1					752	1
S/S-08 (0-2)	S	1700			1					753	1
S/S-09 (0-2)	S	1715				1				754	1
S/S-10 (0-2)	S	1730				1				755	1
S/S-16 (0-2)	S	2/16/07 0725		1*		1				756	2
S/S-17 (0-2)	S	0740		1*		1				757	2
S/S-18 (0-2)	S	0755		1*		1				758	2
S/S-21 (0-2)	S	0820		1*		1				759	2
S/S-20 (0-2)	S	0835		1*		1				760	2
S/S-19 (0-2)	S	0850		1*		1				761	2
S/S-15 (0-2)	S	0945			1					765 ~~762~~	1
S/S-14 (0-2)	S	1000				1				764	1
										Total No. of Bottles/ Containers	23

Sample Matrix: L = Liquid; S = Solid; A = Air

Relinquished by:		Organization: Arcadis	Date 2/16/07	Time 1445	Seal Intact?	
Received by:		Organization: PACE	Date 2/16/07	Time 1445	(Yes)	No N/A
Relinquished by:		Organization: PACE	Date 2/16/07	Time 1545	Seal Intact?	
Received by:		Organization: Pace	Date 2/16/07	Time 1545	(Yes)	No N/A

Special Instructions/Remarks: * 4oz glass jars

24, 3-6, 21

Delivery Method: ☐ In Person ☐ Common Carrier _____ SPECIFY ☒ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

ARCADIS

Laboratory Task Order No./P.O. No.

CHAIN-OF-CUSTODY RECORD

Page 2 of 2

Project Number/Name MISS Bluffs / LA002656.1.15
Project Location Vicksburg, MS
Laboratory PACE
Project Manager Craig Denson
Sampler(s)/Affiliation K. Montgomery / G. Cook (ARCADIS)

2066930

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	~~Arsenic 4oz glass jar~~	Toxaphene 8oz glass jar 4°C	Toxaphene / Dinoseb 8oz glass jar 4°C				Remarks	Total
S/S-13 (0-2)	S	2/16/07 1015				1				20502767	1
S/S-12 (0-2)	S	1035				1				771	1
S/S-11 (0-2)	S	1055			1					772	1

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers 3

Relinquished by: [signature]	Organization: Arcadis	Date 2/16/07	Time 1445	Seal Intact? Yes No N/A (Yes circled)
Received by: [signature]	Organization: Pace	Date 2/16/07	Time 1445	
Relinquished by: [signature]	Organization: Pace	Date 2/16/07	Time 1545	Seal Intact? Yes No N/A (Yes circled)
Received by: N J Miller	Organization: Pace	Date 2/16/07	Time 1545	

Special Instructions/Remarks: 3.6, 2.1°

Delivery Method: ☐ In Person ☐ Common Carrier ______ SPECIFY ☒ Lab Courier ☐ Other ______ SPECIFY

AG 05-12/01

ARCADIS

Laboratory Task Order No./P.O. No. _____ **CHAIN-OF-CUSTODY RECORD** Page 1 of 2

Project Number/Name Miss Bluffs / LA002656.1.15

Project Location Vicksburg, MS

Laboratory PACE

Project Manager Craig Dawson

Sampler(s)/Affiliation K. Montgomery / K. Cook (ARCADIS)

2066930

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	Arsenic *4oz glass jar 4°C	Toxaphene 8oz glass jar 4°C	Toxaphene/Dinoseb 8oz glass jar 4°C				Remarks	Total
S/S-04 (0-2)	S	2/15/07 1600		1	1					205-02749	2
S/S-05 (0-2)	S	1615		1	1					750	2
S/S-06 (0-2)	S	1630			1					751	1
S/S-07 (0-2)	S	1645			1					752	1
S/S-08 (0-2)	S	1700			1					753	1
S/S-09 (0-2)	S	1715				1				754	1
S/S-10 (0-2)	S	1730				1				755	1
S/S-16 (0-2)	S	2/16/07 0725		1*		1				756	2
S/S-17 (0-2)	S	0740		1*		1				757	2
S/S-18 (0-2)	S	0755		1*		1				758	2
S/S-21 (0-2)	S	0820		1*		1				759	2
S/S-20 (0-2)	S	0835		1*		1				760	2
S/S-19 (0-2)	S	0850		1*		1				761	2
S/S-15 (0-2)	S	0945			1					765 ~~762~~	1
S/S-14 (0-2)	S	1000				1				766	1
										Total No. of Bottles/ Containers	23

Sample Matrix: L = Liquid; S = Solid; A = Air

Relinquished by:		Organization: Arcadis	Date 2/16/07	Time 1445	Seal Intact?	
Received by:		Organization: PACE	Date 2/16/07	Time 1445	(Yes)	No N/A
Relinquished by:		Organization: PACE	Date 2/16/07	Time 1545	Seal Intact?	
Received by:		Organization: Pace	Date 2/16/07	Time 1545	(Yes)	No N/A

Special Instructions/Remarks: * 40z glass jars

2.4, 3.6, 2.1

Delivery Method: ☐ In Person ☐ Common Carrier _____ SPECIFY ☒ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

ARCADIS

Laboratory Task Order No./P.O. No. _____ **CHAIN-OF-CUSTODY RECORD** Page 2 of 2

Project Number/Name MISS Blvrs / LA002650.1.15

Project Location Vicksburg, MS

Laboratory PACE

Project Manager Laura Donovan

Sampler(s)/Affiliation K. Montgomery/S. Cook (ARCADIS)

2066930

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	Asbestos 40z glass jar 4°C	Toxaphene Bag glass jar 4°C	Toxaphene/Dursb Bag glass jar 4°C				Remarks	Total
SS-13(0-2)	S	2/16/07 1015				1				20502767	1
SS-12(0-2)	S	1035				1				771	1
SS-11(0-2)	S	1055			1					772	1

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers 3

Relinquished by:		Organization: Arcadis	Date 2/16/07	Time 1445	Seal Intact?	
Received by:		Organization: Pace	Date 2/16/07	Time 1445	Yes	No N/A
Relinquished by:		Organization: Pace	Date 2/16/07	Time 1545	Seal Intact?	
Received by:		Organization: Pace	Date 2/16/07	Time 1545	Yes	No N/A

Special Instructions/Remarks: 3.6, 2.1°

Delivery Method: ☐ In Person ☐ Common Carrier _____ SPECIFY ☒ Lab Courier ☐ Other _____ SPECIFY

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RECEIVED
MAR 0 8 2007
ARCADIS Geraghty & Miller

March 08, 2007

Craig Derouen
Arcadis Geraghty & Miller
10352 Plaza Americana Drive
Baton Rouge, LA 70816

RE: Project: 2066967
RE: Project ID: MS BLUFFS/LA002656.1.15

Dear Craig Derouen:

Enclosed are the analytical results for sample(s) received by the laboratory on February 21, 2007. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Cindy Olavesen

Cindy Olavesen

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REPORT OF LABORATORY ANALYSIS

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Report of Laboratory Analysis

Project Number: 2066967

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Sample Cross Reference Report

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.1.15

Project No.: 2066967

Sample ID	Lab ID	Matrix	Collection Date/Time		Received Date/Time	
S/S-03 (0-4)	20503098	Soil	02/19/2007	08:50	02/21/2007	10:00
S/S-02 (0-6)	20503099	Soil	02/19/2007	10:05	02/21/2007	10:00
S/S-02 (0-6)MS	20503099	Soil	02/19/2007	10:05	02/21/2007	10:00
S/S-02 (0-6)MSD	20503099	Soil	02/19/2007	10:05	02/21/2007	10:00
S/S-DUP-01 (021907)	20503100	Soil	02/19/2007		02/21/2007	10:00
S/S-01 (0-2)	20503101	Soil	02/19/2007	11:15	02/21/2007	10:00
S/S-01 (0-2)MS	20503101	Soil	02/19/2007	11:15	02/21/2007	10:00
S/S-01 (0-2)MSD	20503101	Soil	02/19/2007	11:15	02/21/2007	10:00
S/S-DUP-02 (021907)	20503102	Soil	02/19/2007		02/21/2007	10:00
RB-S/S-01 (021907)	20503103	Water	02/19/2007	09:15	02/21/2007	10:00
RB-S/S-02 (021907)	20503104	Water	02/19/2007	11:00	02/21/2007	10:00

3/8/2007 07:50:03

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Project Narrative

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Project: **2066967**

Sample Receipt Condition:

All samples were received in accordance with EPA protocol.

Holding Times:

All holding times were met.

Blanks:

All blank results were below reporting limits.

Laboratory Control Samples:

All LCS recoveries were within QC limits

Matrix Spikes and Duplicates:

MS or MSD recoveries outside of QC limits are qualified in the Report of Quality Control section.

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LELAP # 02006

Project: 2066967

Analytical Method	Batch	Sample used for QC
EPA 6010	82642	Batch sample from another client
EPA 6010	82645	Project sample S/S-02 (0-6)
EPA 6010	82645	Project sample S/S-01 (0-2)
% Moisture	82662	Project sample S/S-02 (0-6)
% Moisture	82663	Project sample S/S-01 (0-2)

For the sample used as the original for the DUP or MS/MSD for the batch:

Project sample means a sample from this project was used.
Client sample means a sample from the same client but in a different project was used.
Batch sample means a sample from the a different client was used.

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Report of Laboratory Analysis

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Phone: 504.469.0333
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Client ID: S/S-03 (0-4)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.1.15
Site: None
Lab ID: 20503098
Project No.: 2066967
Description: None
Matrix: Soil
%Moisture: 24.2 Corrected
Collected: 02/19/07
Received: 02/21/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
Arsenic	EPA 6010	82645	1	25.1		mg/kg	0.417	0.892	02/23	02/28 23:43 KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/8/2007 07:50:32

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Client ID: S/S-02 (0-6)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.1.15
Site: None
Lab ID: 20503099
Project No.: 2066967
Description: None
Matrix: Soil
%Moisture: 28.6 Corrected
Collected: 02/19/07
Received: 02/21/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
Arsenic	EPA 6010	82645	1	22.3		mg/kg	0.595	1.27	02/23	02/28 22:22 KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: S/S-02 (0-6)MS
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.1.15
Site: None
Lab ID: 20503099MS
Project No.: 2066967
Description: None
Matrix: Soil
%Moisture: 28.6 Corrected
Collected: 02/19/07
Received: 02/21/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
Arsenic	EPA 6010	82645	1	142.		mg/kg	0.565	1.21	02/23	02/28 22:26 KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Pace Analytical
New Orleans Laboratory

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: S/S-02 (0-6)MSD
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.1.15
Site: None
Lab ID: 20503099MSD
Project No.: 2066967
Description: None
Matrix: Soil
%Moisture: 28.6 Corrected
Collected: 02/19/07
Received: 02/21/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82645	1	136.		mg/kg	0.520	1.11	02/23	02/28 22:30	KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/8/2007 07:50:32

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
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LELAP # 02006

Client ID: S/S-DUP-01 (021907)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.1.15
Site: None
Lab ID: 20503100
Project No.: 2066967
Description: None
Matrix: Soil
%Moisture: 20.9 Corrected
Collected: 02/19/07
Received: 02/21/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
Arsenic	EPA 6010	82645	1	25.7		mg/kg	0.435	0.930	02/23	02/28 23:47 KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/8/2007 07:50:32

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Client ID: S/S-01 (0-2)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.1.15
Site: None
Lab ID: 20503101
Project No.: 2066967
Description: None
Matrix: Soil
%Moisture: 13.6 Corrected
Collected: 02/19/07
Received: 02/21/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
Arsenic	EPA 6010	82645	1	295.		mg/kg	0.483	1.03	02/23	02/28 22:40 KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/8/2007 07:50:32

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LELAP # 02006

Client ID: S/S-01 (0-2)MS
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.1.15
Site: None
Lab ID: 20503101MS
Project No.: 2066967
Description: None
Matrix: Soil
%Moisture: 13.6 Corrected
Collected: 02/19/07
Received: 02/21/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
Arsenic	EPA 6010	82645	1	254.	Q1	mg/kg	0.436	0.934	02/23	02/28 22:45 KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: S/S-01 (0-2)MSD
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.1.15
Site: None
Lab ID: 20503101MSD
Project No.: 2066967
Description: None
Matrix: Soil
%Moisture: 13.6 Corrected
Collected: 02/19/07
Received: 02/21/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
Arsenic	EPA 6010	82645	1	262.	Q1	mg/kg	0.398	0.851	02/23	02/28 22:49 KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/8/2007 07:50:33

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: S/S-DUP-02 (021907)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.1.15
Site: None
Lab ID: 20503102
Project No.: 2066967
Description: None
Matrix: Soil
%Moisture: 22.3 Corrected
Collected: 02/19/07
Received: 02/21/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
Arsenic	EPA 6010	82645	1	148.		mg/kg	0.456	0.975	02/23	03/07 11:25 KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: RB-S/S-01 (021907)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.1.15
Site: None
Lab ID: 20503103
Project No.: 2066967
Description: None
Matrix: Water
%Moisture: n/a
Collected: 02/19/07
Received: 02/21/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
Arsenic	EPA 6010	82642	1	ND		ug/L	6.05	10.0	02/22	02/27 18:56 KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Client ID: RB-S/S-02 (021907)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.1.15
Site: None
Lab ID: 20503104
Project No.: 2066967
Description: None
Matrix: Water
%Moisture: n/a
Collected: 02/19/07
Received: 02/21/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
Arsenic	EPA 6010	82642	1	ND		ug/L	6.05	10.0	02/22	02/27 19:01 KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/8/2007 07:50:33

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Report of Quality Control

Pace Analytical Services, Inc.
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Phone: 504.469.0333
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LELAP # 02006

Project: 2066967

Parameter	Batch	Blank	ARL	Units	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS DUP RPD	QC Limits LCS	QC Limits MS/MSD	RPD Max	Qu
Arsenic	82642	ND	10.0	ug/L	1000	112			1000	110	105	4	79 - 122	68 - 130	20	
Arsenic	82645	ND	1.00	mg/kg	100	102			120.8	99	102	4	71 - 131	46 - 137	20	
Arsenic	82645			mg/kg					93.38	0 *	0 *	3	-	46 - 137	20	Q1

3/8/2007 07:50:36

ARL denotes Adjusted Reporting Limit , corrected for sample size, dilution and moisture content as applicable.
* denotes recovery outside of QC limits.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Report Qualifiers

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Phone: 504.469.0333
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LELAP # 02006

Project: 2066967

QC Qualifiers

Qualifier	Qualifier Description
Q1	The matrix spike recoveries are poor. Acceptable method performance for this analyte has been demonstrated by the laboratory control sample recovery.

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ARCADIS

Laboratory Task Order No./P.O. No. _____ **CHAIN-OF-CUSTODY RECORD** Page 1 of 1

Project Number/Name LA002656.1.15 / MS13 Investigation

Project Location Vicksburg, MS

Laboratory PACE

Project Manager Craig Benoven

Sampler(s)/Affiliation K. Montgomery / G. Cook (ARCADIS)

Standard TAT 2066967

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE: Metals-Arsenic 4oz clear	Metals-As 250 ml plastic 4°C					Remarks	Total
S/S-03 (0-4)	S	2/19/07 0850		1						20503098	1
RB-S/S-01(021907)	L	0915			1					3103	1
S/S-02(0-6)	S	1005		3*					3099	* Includes MS/MSD	3
S/S-DUP-01(021907)	S	—		1					3100		1
RB-S/S-02(021907)	L	1100			1					3104	1
S/S-01(0-2)	S	1115		3*					3101	* Includes MS/MSD	3
S/S-DUP02(021907)	S	—		1	~~dup~~ (dup)				3102		1

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers 11

					Seal Intact?
Relinquished by: [signature]	Organization: Arcadis	Date 2/20/07	Time 1330		
Received by: Fed Ex	Organization:	Date / /	Time		Yes No N/A
Relinquished by: Fed Ex	Organization:	Date / /	Time		Seal Intact?
Received by: RB/Pace	Organization: Pace	Date 2/21/07	Time 1000		(Yes) No N/A

Special Instructions/Remarks: 4.3 deg C

Delivery Method: ☐ In Person ☒ Common Carrier Fed Express - Priority ☐ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

ARCADIS

Laboratory Task Order No./P.O. No. _____ **CHAIN-OF-CUSTODY RECORD** Page 1 of 1

Project Number/Name LA002656.1.15 / MS13 Incr=

Project Location Vicksburg, MS

Laboratory PACE

Project Manager Craig Debevec

Sampler(s)/Affiliation K. Montgomery / GCook (ARCADIS)

Standard T/A! 206967

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE: Metals - Arsenic 4oz glass 4°C	Metals - As 250 ml plastic 4°C					Remarks	Total
S/S-03 (0-4)	S	2/19/07 0850		1						20503098	1
RB-S/S-01(021907)	L	0915			1					3103	1
S/S-02(0-6)	S	1005		3*					3099	*Includes MS/MSD	3
S/S-DUP-01(021907)	S	—		1					3100		1
RB-S/S-02(021907)	L	1100			1					3104	1
S/S-01(0-2)	S	1115		3*					3101	*Includes MS/MSD	3
S/S-DUP02(021907)	S	—		1	(Can 2/19/07)				3102		1

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers: 11

					Seal Intact?
Relinquished by: [signature]	Organization: Arcadis	Date 2/20/07	Time 1330		
Received by: Fed Ex	Organization:	Date / /	Time		Yes No N/A
Relinquished by: Fed Ex	Organization:	Date / /	Time		Seal Intact?
Received by: RB/Pace	Organization: Pace	Date 2/21/07	Time 1000		(Yes) No N/A

Special Instructions/Remarks: 4. 3 jars

Delivery Method: ☐ In Person ☒ Common Carrier Fed Express - Priority ☐ Lab Courier ☐ Other _____

SPECIFY SPECIFY

AG 05-12/01

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Phone: 504.469.0333
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LELAP # 02006

April 02, 2007

Craig Derouen
Arcadis Geraghty & Miller
10352 Plaza Americana Drive
Baton Rouge, LA 70816

RE: Project: 2066967
RE: Project ID: MS BLUFFS/LA002656.1.15

Dear Craig Derouen:

Enclosed are the analytical results for sample(s) received by the laboratory on February 21, 2007. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Cindy Olavesen

Cindy Olavesen

ACCREDITED IN ACCORDANCE WITH nelac

REPORT OF LABORATORY ANALYSIS

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Report of Laboratory Analysis

Project Number: 2066967

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4/2/2007 09:56:48

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Sample Cross Reference Report

Pace Analytical Services, Inc.
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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.1.15

Project No.: 2066967

Sample ID	Lab ID	Matrix	Collection Date/Time		Received Date/Time	
S/S-03 (0-4)	20503098	Soil	02/19/2007	08:50	02/21/2007	10:00
S/S-02 (0-6)	20503099	Soil	02/19/2007	10:05	02/21/2007	10:00
S/S-DUP-01 (021907)	20503100	Soil	02/19/2007		02/21/2007	10:00
S/S-01 (0-2)	20503101	Soil	02/19/2007	11:15	02/21/2007	10:00
S/S-DUP-02 (021907)	20503102	Soil	02/19/2007		02/21/2007	10:00
RB-S/S-01 (021907)	20503103	Water	02/19/2007	09:15	02/21/2007	10:00
RB-S/S-02 (021907)	20503104	Water	02/19/2007	11:00	02/21/2007	10:00

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Project Narrative

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2066967

Sample Receipt Condition:

All samples were received in accordance with EPA protocol.

Holding Times:

All holding times were met.

Blanks:

All blank results were below reporting limits.

Laboratory Control Samples:

All LCS recoveries were within QC limits

Matrix Spikes and Duplicates:

MS or MSD recoveries outside of QC limits are qualified in the Report of Quality Control section.

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Project Narrative

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2066967

Analytical Method	Batch	Sample used for QC
EPA 6010	82642	Batch sample from another client
EPA 6010	82645	Project sample S/S-02 (0-6)
EPA 6010	82645	Project sample S/S-01 (0-2)
EPA 6010	84064	Project sample S/S-01 (0-2)
% Moisture	82662	Project sample S/S-02 (0-6)
% Moisture	82663	Project sample S/S-01 (0-2)

For the sample used as the original for the DUP or MS/MSD for the batch:

Project sample means a sample from this project was used.
Client sample means a sample from the same client but in a different project was used.
Batch sample means a sample from the a different client was used.

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: S/S-03 (0-4)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.1.15
Site: None
Lab ID: 20503098
Project No.: 2066967
Description: None
Matrix: Soil
%Moisture: 24.2 Corrected
Collected: 02/19/07
Received: 02/21/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82645	1	25.1		mg/kg	0.417	0.892	02/23	02/28 23:43	KJR (1)	

1 parameter(s) reported

4/2/2007 09:57:21

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health .Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

Report of Laboratory Analysis

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Phone: 504.469.0333
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LELAP # 02006

Client ID: S/S-02 (0-6)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.1.15
Site: None
Lab ID: 20503099
Project No.: 2066967
Description: None
Matrix: Soil
%Moisture: 28.6 Corrected
Collected: 02/19/07
Received: 02/21/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
Arsenic	EPA 6010	82645	1	22.3		mg/kg	0.595	1.27	02/23	02/28 22:22 KJR (1)	

1 parameter(s) reported

4/2/2007 09:57:21

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Client ID: S/S-DUP-01 (021907)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.1.15
Site: None
Lab ID: 20503100
Project No.: 2066967
Description: None
Matrix: Soil
%Moisture: 20.9 Corrected
Collected: 02/19/07
Received: 02/21/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	82645	1	25.7		mg/kg	0.435	0.930	02/23	02/28 23:47	KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

4/2/2007 09:57:21

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LELAP # 02006

Client ID: S/S-01 (0-2)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.1.15
Site: None
Lab ID: 20503101
Project No.: 2066967
Description: None
Matrix: Soil
%Moisture: 13.6 Corrected
Collected: 02/19/07
Received: 02/21/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
Arsenic	EPA 6010	82645	1	295.		mg/kg	0.483	1.03	02/23	02/28 22:40 KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Client ID: S/S-01 (0-2)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.1.15
Site: None
Lab ID: 20503101 (SPLP)
Project No.: 2066967
Description: None
Matrix: Soil
%Moisture: 13.6 Not Corrected
Collected: 02/19/07
Received: 02/21/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
Arsenic	EPA 6010 (SPI	84064	1	591.		ug/L	6.05	10.0	03/30	03/30 17:35 KJR (1)	

1 parameter(s) reported

4/2/2007 09:57:21

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Client ID: S/S-DUP-02 (021907)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.1.15
Site: None
Lab ID: 20503102
Project No.: 2066967
Description: None
Matrix: Soil
%Moisture: 22.3 Corrected
Collected: 02/19/07
Received: 02/21/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
Arsenic	EPA 6010	82645	1	148.		mg/kg	0.456	0.975	02/23	03/07 11:25 KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Client ID: RB-S/S-01 (021907)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.1.15
Site: None
Lab ID: 20503103
Project No.: 2066967
Description: None
Matrix: Water
%Moisture: n/a
Collected: 02/19/07
Received: 02/21/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
Arsenic	EPA 6010	82642	1	ND		ug/L	6.05	10.0	02/22	02/27 18:56 KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

4/2/2007 09:57:22

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LELAP # 02006

Client ID: RB-S/S-02 (021907)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.1.15
Site: None
Lab ID: 20503104
Project No.: 2066967
Description: None
Matrix: Water
%Moisture: n/a
Collected: 02/19/07
Received: 02/21/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis	Reg. Limit
Arsenic	EPA 6010	82642	1	ND		ug/L	6.05	10.0	02/22	02/27 19:01 KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Report of Quality Control

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2066967

Parameter	Batch	Blank	ARL	Units	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	RPD Max	Qu
Arsenic	82642	ND	10.0	ug/L	1000	112			1000	110	105	4		79 - 122	68 - 130	20	
Arsenic	82645	ND	1.00	mg/kg	100	102			120.8	99	102	4		71 - 131	46 - 137	20	
Arsenic	82645			mg/kg					93.38	0 *	0 *	3		-	46 - 137	20	Q1
Arsenic	84064	ND	10.0	ug/L	1000	101			1000	96	85	8		79 - 122	68 - 130	20	

4/2/2007 09:57:25

ARL denotes Adjusted Reporting Limit , corrected for sample size, dilution and moisture content as applicable.
* denotes recovery outside of QC limits.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Report Qualifiers

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Phone: 504.469.0333
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LELAP # 02006

Project: 2066967

QC Qualifiers

Qualifier	Qualifier Description
Q1	The matrix spike recoveries are poor. Acceptable method performance for this analyte has been demonstrated by the laboratory control sample recovery.

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ARCADIS

Laboratory Task Order No./P.O. No. _____ **CHAIN-OF-CUSTODY RECORD** Page 1 of 1

Project Number/Name LA002656.1.15 / MSB Investigation

Project Location Vicksburg, MS

Laboratory PACE

Project Manager Craig Denoven

Sampler(s)/Affiliation K. Montgomery / G Cook (ARCADIS)

Standard T/A: 206967

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE: Metals - Arsenic 4 oz glass 4°C	Metals - As 250 ml plastic 4°C					Remarks	Total
S/S-03 (0-4)	S	2/19/07 0850		1						20503098	1
RB-S/S-01(021907)	L	0915			1					3103	1
S/S-02(0-6)	S	1005		3*					3099	* Includes MS/MSD	3
S/S-DUP-01(021907)	S	—		1					3100		1
RB-S/S-02(021907)	L	1100			1					3104	1
S/S-01(0-2)	S	1115		3*					3101	* Includes MS/MSD	3
S/S-DUP02(021907)	S	—		1	~~1~~ (2/21/07)				3102		1

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers: 11

Relinquished by: [signature]	Organization: Arcadis	Date 2/20/07	Time 1330	Seal Intact?	
Received by: Fed Ex	Organization:	Date / /	Time	Yes No N/A	
Relinquished by: Fed Ex	Organization:	Date / /	Time	Seal Intact?	
Received by: RB/Pace	Organization: Pace	Date 2/21/07	Time 1000	(Yes) No N/A	

Special Instructions/Remarks: 4.3 yes C

Delivery Method: ☐ In Person ☒ Common Carrier Fed Express - Priority ☐ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

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Fax: 504.469.0555
LELAP # 02006

March 23, 2007

Craig Derouen
Arcadis Geraghty & Miller
10352 Plaza Americana Drive
Baton Rouge, LA 70816

RE: Project: 2067454
RE: Project ID: MS BLUFFS (VICKSBURG,MS)

Dear Craig Derouen:

Enclosed are the analytical results for sample(s) received by the laboratory on March 09, 2007. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Cindy Olavesen

Cindy Olavesen

ACCREDITED IN ACCORDANCE WITH nelac

REPORT OF LABORATORY ANALYSIS

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LELAP # 02006

Report of Laboratory Analysis

Project Number: 2067454

3/23/2007 14:51:00

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Sample Cross Reference Report

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Project: MS BLUFFS (VICKSBURG,MS)

Project No.: 2067454

Sample ID	Lab ID	Matrix	Collection Date/Time		Received Date/Time	
CARBON TK#6 (030807)	20506591	Other	03/08/2007	09:30	03/09/2007	16:35
CARBON TK#2 (030807)	20506592	Other	03/08/2007	10:51	03/09/2007	16:35
SOUTH MAP-TK (30807)	20506593	Other	03/08/2007	14:45	03/09/2007	16:35
CARBON TK-#6-WATER (030807)	20506625	Water	03/08/2007	10:00	03/09/2007	16:35
CARBON TK-#3-WATER (030807)	20506626	Water	03/08/2007	13:00	03/09/2007	16:35
SOUTH MKP-TK (030807)	20506627	Water	03/08/2007	14:10	03/09/2007	16:35

3/23/2007 14:51:03

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Project Narrative

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LELAP # 02006

Project: 2067454

Narrative detail for GC/MS semi-volatilves analyses:

Samples 20506625 and 20506626 required re-extraction due to low tribromophenol (surrogate) recoveries. The leachates were re-extracted one day past the holding time limit.

Tribromophenol recoveries were acceptable in the re-analyses. Both sets of results were submitted.

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Project Narrative

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Phone: 504.469.0333
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LELAP # 02006

Project: **2067454**

Sample Receipt Condition:

All samples were received in accordance with EPA protocol.

Holding Times:

All holding times were met.

Blanks:

All blank results were below reporting limits.

Laboratory Control Samples:

All LCS recoveries were within QC limits

Matrix Spikes and Duplicates:

MS or MSD recoveries outside of QC limits are qualified in the Report of Quality Control section.

Surrogates:

Surrogate recoveries outside of QC limits are qualified in the surrogate results section.

Regulatory, Permit or Client Specified Limits:

Results were found that exceeded regulatory, permit or client specified limits:

Method EPA 6010 sample 20506591 Selenium reporting limit 2mg/L is greater than 1mg/L limit

Method EPA 6010 sample 20506592 Selenium reporting limit 2mg/L is greater than 1mg/L limit

Method EPA 6010 sample 20506593 Selenium reporting limit 2mg/L is greater than 1mg/L limit

Method EPA 6010 sample 20506625 Selenium reporting limit 2mg/L is greater than 1mg/L limit

Method EPA 6010 sample 20506626 Selenium reporting limit 2mg/L is greater than 1mg/L limit

Method EPA 6010 sample 20506627 Selenium reporting limit 2mg/L is greater than 1mg/L limit

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Project Narrative

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2067454

Analytical Method	Batch	Sample used for QC
EPA 8081	83515	Client sample T-608 (030907) from project 2067456
EPA 8151	83589	
EPA 6010	83448	Batch sample from another client
EPA 7470	83449	Client sample T-608 (030907) from project 2067456
EPA 8270	83642	Client sample T-23C (030907) from project 2067456
EPA 8260	83464	
EPA 8260	83472	Batch sample from another client
EPA 9040	83298	Project sample CARBON TK-#6-WATER (030807)
EPA 9045	83358	Batch sample from another client
SW-846 7.3.4.2	83359	Client sample T-608 (030907) from project 2067456
SW-846 7.3.3.2	83360	Client sample T-608 (030907) from project 2067456

3/23/2007 14:51:38

For the sample used as the original for the DUP or MS/MSD for the batch:

Project sample means a sample from this project was used.
Client sample means a sample from the same client but in a different project was used.
Batch sample means a sample from the a different client was used.

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: CARBON TK#6 (030807) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067454 **Sample Qu:**

Lab ID: 20506591 (TCLP) **Matrix:** Other **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83464

Method: 8260 VOAs TCLP **Units:** mg/L **Target List:** 8260_LL20

Collected: 03/08/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/15/07 **Analyzed:** 03/15/07 12:02 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	ND		0.100	0.500
78-93-3	2-Butanone (MEK)	1	ND	A11	0.200	200.
56-23-5	Carbon tetrachloride	1	0.141		0.100	0.500
108-90-7	Chlorobenzene	1	ND		0.100	100.
67-66-3	Chloroform	1	0.240		0.100	6.00
107-06-2	1,2-Dichloroethane	1	ND		0.100	0.500
75-35-4	1,1-Dichloroethene	1	ND		0.100	0.700
127-18-4	Tetrachloroethene	1	ND		0.100	0.700
79-01-6	Trichloroethene	1	ND		0.100	0.500
75-01-4	Vinyl chloride	1	ND		0.100	0.200

10 compound(s) reported

3/23/2007 14:51:41

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Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health_Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: CARBON TK#6 (030807) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067454 **Sample Qu:**

Lab ID: 20506591 (TCLP) **Matrix:** Other **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83642

Method: 8270 SVOAs TCLP **Units:** mg/L **Target List:** 8270_LL20

Collected: 03/08/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/20/07 **Analyzed:** 03/21/07 19:14 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
106-46-7	1,4-Dichlorobenzene	1	ND	S1	0.100	7.50
121-14-2	2,4-Dinitrotoluene	1	ND		0.100	0.130
87-68-3	Hexachloro-1,3-butadiene	1	ND		0.100	0.500
118-74-1	Hexachlorobenzene	1	ND		0.100	0.130
67-72-1	Hexachloroethane	1	ND		0.100	3.00
95-48-7	2-Methylphenol (o-Cresol)	1	ND		0.100	200.
108-39-4	3-Methylphenol (m-Cresol)	1	ND	A7	0.100	200.
106-44-5	4-Methylphenol (p-Cresol)	1	ND	A7	0.100	200.
98-95-3	Nitrobenzene	1	ND		0.100	2.00
87-86-5	Pentachlorophenol	1	ND		0.250	100.
110-86-1	Pyridine	1	ND		0.100	5.00
95-95-4	2,4,5-Trichlorophenol	1	ND		0.250	400.
88-06-2	2,4,6-Trichlorophenol	1	ND		0.100	2.00

13 compound(s) reported

3/23/2007 14:51:41

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: CARBON TK#2 (030807) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067454 **Sample Qu:**

Lab ID: 20506592 (TCLP) **Matrix:** Other **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83464

Method: 8260 VOAs TCLP **Units:** mg/L **Target List:** 8260_LL20

Collected: 03/08/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/15/07 **Analyzed:** 03/15/07 12:21 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	ND		0.100	0.500
78-93-3	2-Butanone (MEK)	1	ND	A11	0.200	200.
56-23-5	Carbon tetrachloride	1	ND		0.100	0.500
108-90-7	Chlorobenzene	1	ND		0.100	100.
67-66-3	Chloroform	1	ND		0.100	6.00
107-06-2	1,2-Dichloroethane	1	ND		0.100	0.500
75-35-4	1,1-Dichloroethene	1	ND		0.100	0.700
127-18-4	Tetrachloroethene	1	ND		0.100	0.700
79-01-6	Trichloroethene	1	ND		0.100	0.500
75-01-4	Vinyl chloride	1	ND		0.100	0.200

10 compound(s) reported

3/23/2007 14:51:41

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Client: Arcadis Geraghty & Miller

Client ID: CARBON TK#2 (030807) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067454 **Sample Qu:**

Lab ID: 20506592 (TCLP) **Matrix:** Other **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83642

Method: 8270 SVOAs TCLP **Units:** mg/L **Target List:** 8270 LL20

Collected: 03/08/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/20/07 **Analyzed:** 03/21/07 19:42 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
106-46-7	1,4-Dichlorobenzene	1	ND		0.100	7.50
121-14-2	2,4-Dinitrotoluene	1	ND		0.100	0.130
87-68-3	Hexachloro-1,3-butadiene	1	ND		0.100	0.500
118-74-1	Hexachlorobenzene	1	ND		0.100	0.130
67-72-1	Hexachloroethane	1	ND		0.100	3.00
95-48-7	2-Methylphenol (o-Cresol)	1	ND		0.100	200.
108-39-4	3-Methylphenol (m-Cresol)	1	ND	A7	0.100	200.
106-44-5	4-Methylphenol (p-Cresol)	1	ND	A7	0.100	200.
98-95-3	Nitrobenzene	1	ND		0.100	2.00
87-86-5	Pentachlorophenol	1	ND		0.250	100.
110-86-1	Pyridine	1	ND		0.100	5.00
95-95-4	2,4,5-Trichlorophenol	1	ND		0.250	400.
88-06-2	2,4,6-Trichlorophenol	1	ND		0.100	2.00

13 compound(s) reported

3/23/2007 14:51:42

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SOUTH MAP-TK (30807) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067454 **Sample Qu:**

Lab ID: 20506593 (TCLP) **Matrix:** Other **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83464

Method: 8260 VOAs TCLP **Units:** mg/L **Target List:** 8260_LL20

Collected: 03/08/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/15/07 **Analyzed:** 03/15/07 12:40 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	ND		0.100	0.500
78-93-3	2-Butanone (MEK)	1	ND	A11	0.200	200.
56-23-5	Carbon tetrachloride	1	ND		0.100	0.500
108-90-7	Chlorobenzene	1	ND		0.100	100.
67-66-3	Chloroform	1	ND		0.100	6.00
107-06-2	1,2-Dichloroethane	1	ND		0.100	0.500
75-35-4	1,1-Dichloroethene	1	ND		0.100	0.700
127-18-4	Tetrachloroethene	1	ND		0.100	0.700
79-01-6	Trichloroethene	1	ND		0.100	0.500
75-01-4	Vinyl chloride	1	ND		0.100	0.200

10 compound(s) reported

3/23/2007 14:51:42

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SOUTH MAP-TK (30807) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067454 **Sample Qu:**

Lab ID: 20506593 (TCLP) **Matrix:** Other **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83642

Method: 8270 SVOAs TCLP **Units:** mg/L **Target List:** 8270 LL20

Collected: 03/08/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/20/07 **Analyzed:** 03/21/07 20:09 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
106-46-7	1,4-Dichlorobenzene	1	ND		0.100	7.50
121-14-2	2,4-Dinitrotoluene	1	ND		0.100	0.130
87-68-3	Hexachloro-1,3-butadiene	1	ND		0.100	0.500
118-74-1	Hexachlorobenzene	1	ND		0.100	0.130
67-72-1	Hexachloroethane	1	ND		0.100	3.00
95-48-7	2-Methylphenol (o-Cresol)	1	ND		0.100	200.
108-39-4	3-Methylphenol (m-Cresol)	1	ND	A7	0.100	200.
106-44-5	4-Methylphenol (p-Cresol)	1	ND	A7	0.100	200.
98-95-3	Nitrobenzene	1	ND		0.100	2.00
87-86-5	Pentachlorophenol	1	ND		0.250	100.
110-86-1	Pyridine	1	ND		0.100	5.00
95-95-4	2,4,5-Trichlorophenol	1	ND		0.250	400.
88-06-2	2,4,6-Trichlorophenol	1	ND		0.100	2.00

13 compound(s) reported

3/23/2007 14:51:42

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: CARBON TK-#6-WATER (030807) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067454 **Sample Qu:**

Lab ID: 20506625 (TCLP) **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83464

Method: 8260 VOAs TCLP **Units:** mg/L **Target List:** 8260_LL20

Collected: 03/08/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/15/07 **Analyzed:** 03/15/07 17:27 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	ND		0.100	0.500
78-93-3	2-Butanone (MEK)	1	ND	A11	0.200	200.
56-23-5	Carbon tetrachloride	1	ND		0.100	0.500
108-90-7	Chlorobenzene	1	ND		0.100	100.
67-66-3	Chloroform	1	ND		0.100	6.00
107-06-2	1,2-Dichloroethane	1	ND		0.100	0.500
75-35-4	1,1-Dichloroethene	1	ND		0.100	0.700
127-18-4	Tetrachloroethene	1	ND		0.100	0.700
79-01-6	Trichloroethene	1	ND		0.100	0.500
75-01-4	Vinyl chloride	1	ND		0.100	0.200

10 compound(s) reported

3/23/2007 14:51:42

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: CARBON TK-#6-WATER (030807) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067454 **Sample Qu:**

Lab ID: 20506625 (TCLP) **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83642

Method: 8270 SVOAs TCLP **Units:** mg/L **Target List:** 8270 LL20

Collected: 03/08/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/20/07 **Analyzed:** 03/21/07 20:37 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
106-46-7	1,4-Dichlorobenzene	1	ND	N	0.100	7.50
121-14-2	2,4-Dinitrotoluene	1	ND	N	0.100	0.130
87-68-3	Hexachloro-1,3-butadiene	1	ND	N	0.100	0.500
118-74-1	Hexachlorobenzene	1	ND	N	0.100	0.130
67-72-1	Hexachloroethane	1	ND	N	0.100	3.00
95-48-7	2-Methylphenol (o-Cresol)	1	ND	N	0.100	200.
108-39-4	3-Methylphenol (m-Cresol)	1	ND	A7,N	0.100	200.
106-44-5	4-Methylphenol (p-Cresol)	1	ND	A7,N	0.100	200.
98-95-3	Nitrobenzene	1	ND	N	0.100	2.00
87-86-5	Pentachlorophenol	1	ND	N	0.250	100.
110-86-1	Pyridine	1	ND	N	0.100	5.00
95-95-4	2,4,5-Trichlorophenol	1	ND	N	0.250	400.
88-06-2	2,4,6-Trichlorophenol	1	ND	N	0.100	2.00

13 compound(s) reported

3/23/2007 14:51:42

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: CARBON TK-#6-WATER (030807)
Site: None
Project: MS BLUFFS (VICKSBURG,MS)
Project No.: 2067454
Sample Qu:
Lab ID: 20506625 (TCLP)RE1
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: TCLP
Batch: 83740
Method: 8270 SVOAs TCLP
Units: mg/L
Target List: 8270 LL20
Collected: 03/08/07
Received: 03/09/07
Prep Factor: 1
Prepared: 03/22/07
Analyzed: 03/23/07 11:41 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
106-46-7	1,4-Dichlorobenzene	1	ND	N	0.100	7.50
121-14-2	2,4-Dinitrotoluene	1	ND	N	0.100	0.130
87-68-3	Hexachloro-1,3-butadiene	1	ND	N	0.100	0.500
118-74-1	Hexachlorobenzene	1	ND	N	0.100	0.130
67-72-1	Hexachloroethane	1	ND	N	0.100	3.00
95-48-7	2-Methylphenol (o-Cresol)	1	ND	N	0.100	200.
108-39-4	3-Methylphenol (m-Cresol)	1	ND	N	0.100	200.
106-44-5	4-Methylphenol (p-Cresol)	1	ND	N	0.100	200.
98-95-3	Nitrobenzene	1	ND	N	0.100	2.00
87-86-5	Pentachlorophenol	1	ND	N	0.250	100.
110-86-1	Pyridine	1	ND	N	0.100	5.00
95-95-4	2,4,5-Trichlorophenol	1	ND	N	0.250	400.
88-06-2	2,4,6-Trichlorophenol	1	ND	N	0.100	2.00

13 compound(s) reported

3/23/2007 14:51:42

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: CARBON TK-#3-WATER (030807) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067454 **Sample Qu:**

Lab ID: 20506626 (TCLP) **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83464

Method: 8260 VOAs TCLP **Units:** mg/L **Target List:** 8260_LL20

Collected: 03/08/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/15/07 **Analyzed:** 03/15/07 17:46 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	ND		0.100	0.500
78-93-3	2-Butanone (MEK)	1	ND	A11	0.200	200.
56-23-5	Carbon tetrachloride	1	ND		0.100	0.500
108-90-7	Chlorobenzene	1	ND		0.100	100.
67-66-3	Chloroform	1	ND		0.100	6.00
107-06-2	1,2-Dichloroethane	1	ND		0.100	0.500
75-35-4	1,1-Dichloroethene	1	ND		0.100	0.700
127-18-4	Tetrachloroethene	1	ND		0.100	0.700
79-01-6	Trichloroethene	1	ND		0.100	0.500
75-01-4	Vinyl chloride	1	ND		0.100	0.200

10 compound(s) reported

3/23/2007 14:51:42

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Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: CARBON TK-#3-WATER (030807) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067454 **Sample Qu:**

Lab ID: 20506626 (TCLP) **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83642

Method: 8270 SVOAs TCLP **Units:** mg/L **Target List:** 8270_LL20

Collected: 03/08/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/20/07 **Analyzed:** 03/21/07 21:04 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
106-46-7	1,4-Dichlorobenzene	1	ND	N	0.100	7.50
121-14-2	2,4-Dinitrotoluene	1	ND	N	0.100	0.130
87-68-3	Hexachloro-1,3-butadiene	1	ND	N	0.100	0.500
118-74-1	Hexachlorobenzene	1	ND	N	0.100	0.130
67-72-1	Hexachloroethane	1	ND	N	0.100	3.00
95-48-7	2-Methylphenol (o-Cresol)	1	ND	N	0.100	200.
108-39-4	3-Methylphenol (m-Cresol)	1	ND	A7,N	0.100	200.
106-44-5	4-Methylphenol (p-Cresol)	1	ND	A7,N	0.100	200.
98-95-3	Nitrobenzene	1	ND	N	0.100	2.00
87-86-5	Pentachlorophenol	1	ND	N	0.250	100.
110-86-1	Pyridine	1	ND	N	0.100	5.00
95-95-4	2,4,5-Trichlorophenol	1	ND	N	0.250	400.
88-06-2	2,4,6-Trichlorophenol	1	ND	N	0.100	2.00

13 compound(s) reported

3/23/2007 14:51:42

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: CARBON TK-#3-WATER (030807) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067454 **Sample Qu:**

Lab ID: 20506626 (TCLP)RE1 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83740

Method: 8270 SVOAs TCLP **Units:** mg/L **Target List:** 8270_LL20

Collected: 03/08/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/22/07 **Analyzed:** 03/23/07 12:10 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
106-46-7	1,4-Dichlorobenzene	1	ND	N	0.100	7.50
121-14-2	2,4-Dinitrotoluene	1	ND	N	0.100	0.130
87-68-3	Hexachloro-1,3-butadiene	1	ND	N	0.100	0.500
118-74-1	Hexachlorobenzene	1	ND	N	0.100	0.130
67-72-1	Hexachloroethane	1	ND	N	0.100	3.00
95-48-7	2-Methylphenol (o-Cresol)	1	ND	N	0.100	200.
108-39-4	3-Methylphenol (m-Cresol)	1	ND	N	0.100	200.
106-44-5	4-Methylphenol (p-Cresol)	1	ND	N	0.100	200.
98-95-3	Nitrobenzene	1	ND	N	0.100	2.00
87-86-5	Pentachlorophenol	1	ND	N	0.250	100.
110-86-1	Pyridine	1	ND	N	0.100	5.00
95-95-4	2,4,5-Trichlorophenol	1	ND	N	0.250	400.
88-06-2	2,4,6-Trichlorophenol	1	ND	N	0.100	2.00

13 compound(s) reported

3/23/2007 14:51:42

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SOUTH MKP-TK (030807) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067454 **Sample Qu:**

Lab ID: 20506627 (TCLP) **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83472

Method: 8260 VOAs TCLP **Units:** mg/L **Target List:** 8260_LL20

Collected: 03/08/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/15/07 **Analyzed:** 03/15/07 21:55 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	ND		0.100	0.500
78-93-3	2-Butanone (MEK)	1	ND	A11	0.200	200.
56-23-5	Carbon tetrachloride	1	ND		0.100	0.500
108-90-7	Chlorobenzene	1	ND		0.100	100.
67-66-3	Chloroform	1	ND		0.100	6.00
107-06-2	1,2-Dichloroethane	1	ND		0.100	0.500
75-35-4	1,1-Dichloroethene	1	ND		0.100	0.700
127-18-4	Tetrachloroethene	1	ND		0.100	0.700
79-01-6	Trichloroethene	1	ND		0.100	0.500
75-01-4	Vinyl chloride	1	ND		0.100	0.200

10 compound(s) reported

3/23/2007 14:51:43

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SOUTH MKP-TK (030807) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067454 **Sample Qu:**

Lab ID: 20506627 (TCLP) **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83642

Method: 8270 SVOAs TCLP **Units:** mg/L **Target List:** 8270_LL20

Collected: 03/08/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/20/07 **Analyzed:** 03/21/07 21:32 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
106-46-7	1,4-Dichlorobenzene	1	ND		0.100	7.50
121-14-2	2,4-Dinitrotoluene	1	ND		0.100	0.130
87-68-3	Hexachloro-1,3-butadiene	1	ND		0.100	0.500
118-74-1	Hexachlorobenzene	1	ND		0.100	0.130
67-72-1	Hexachloroethane	1	ND		0.100	3.00
95-48-7	2-Methylphenol (o-Cresol)	1	ND		0.100	200.
108-39-4	3-Methylphenol (m-Cresol)	1	ND	A7	0.100	200.
106-44-5	4-Methylphenol (p-Cresol)	1	ND	A7	0.100	200.
98-95-3	Nitrobenzene	1	ND		0.100	2.00
87-86-5	Pentachlorophenol	1	ND		0.250	100.
110-86-1	Pyridine	1	ND		0.100	5.00
95-95-4	2,4,5-Trichlorophenol	1	ND		0.250	400.
88-06-2	2,4,6-Trichlorophenol	1	ND		0.100	2.00

13 compound(s) reported

3/23/2007 14:51:43

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: CARBON TK#6 (030807) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067454 **Sample Qu:**

Lab ID: 20506591 (TCLP) **Matrix:** Other **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83515

Method: 8081 Pests TCLP **Units:** mg/L **Target List:** 8081_LL20

Collected: 03/08/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/16/07 **Analyzed:** 03/21/07 00:53 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
58-89-9	gamma-BHC (Lindane)	1	ND		0.000500	0.400
57-74-9	Chlordane	1	ND		0.00100	0.0300
72-20-8	Endrin	1	ND		0.00100	0.0200
76-44-8	Heptachlor	1	ND		0.000500	0.00800
1024-57-3	Heptachlor epoxide	1	ND		0.000500	0.00800
72-43-5	Methoxychlor	1	ND		0.00500	10.0
8001-35-2	Toxaphene	1	ND		0.0200	0.500

7 compound(s) reported

3/23/2007 14:51:46

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: CARBON TK#6 (030807) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067454 **Sample Qu:**

Lab ID: 20506591 (TCLP) **Matrix:** Other **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83589

Method: 8151 Herbs TCLP **Units:** mg/L **Target List:** 8151 LL20

Collected: 03/08/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/20/07 **Analyzed:** 03/22/07 12:42 SRA (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
94-75-7	2,4-D	1	ND		0.0200	10.0
93-72-1	2,4,5-TP (Silvex)	1	ND		0.00500	1.00

2 compound(s) reported

3/23/2007 14:51:46

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: CARBON TK#2 (030807) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067454 **Sample Qu:**

Lab ID: 20506592 (TCLP) **Matrix:** Other **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83515

Method: 8081 Pests TCLP **Units:** mg/L **Target List:** 8081_LL20

Collected: 03/08/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/16/07 **Analyzed:** 03/21/07 01:10 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
58-89-9	gamma-BHC (Lindane)	1	ND		0.000500	0.400
57-74-9	Chlordane	1	ND		0.00100	0.0300
72-20-8	Endrin	1	ND		0.00100	0.0200
76-44-8	Heptachlor	1	ND		0.000500	0.00800
1024-57-3	Heptachlor epoxide	1	ND		0.000500	0.00800
72-43-5	Methoxychlor	1	ND		0.00500	10.0
8001-35-2	Toxaphene	1	ND		0.0200	0.500

7 compound(s) reported

3/23/2007 14:51:46

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: CARBON TK#2 (030807) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067454 **Sample Qu:**

Lab ID: 20506592 (TCLP) **Matrix:** Other **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83589

Method: 8151 Herbs TCLP **Units:** mg/L **Target List:** 8151_LL20

Collected: 03/08/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/20/07 **Analyzed:** 03/22/07 13:10 SRA (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
94-75-7	2,4-D	1	ND		0.0200	10.0
93-72-1	2,4,5-TP (Silvex)	1	ND		0.00500	1.00

2 compound(s) reported

3/23/2007 14:51:46

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DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SOUTH MAP-TK (30807) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067454 **Sample Qu:**

Lab ID: 20506593 (TCLP) **Matrix:** Other **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83515

Method: 8081 Pests TCLP **Units:** mg/L **Target List:** 8081_LL20

Collected: 03/08/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/16/07 **Analyzed:** 03/21/07 01:26 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
58-89-9	gamma-BHC (Lindane)	1	ND		0.000500	0.400
57-74-9	Chlordane	1	ND		0.00100	0.0300
72-20-8	Endrin	1	ND		0.00100	0.0200
76-44-8	Heptachlor	1	ND		0.000500	0.00800
1024-57-3	Heptachlor epoxide	1	ND		0.000500	0.00800
72-43-5	Methoxychlor	1	ND		0.00500	10.0
8001-35-2	Toxaphene	1	ND		0.0200	0.500

7 compound(s) reported

3/23/2007 14:51:46

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Client: Arcadis Geraghty & Miller

Client ID: SOUTH MAP-TK (30807) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067454 **Sample Qu:**

Lab ID: 20506593 (TCLP) **Matrix:** Other **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83589

Method: 8151 Herbs TCLP **Units:** mg/L **Target List:** 8151 LL20

Collected: 03/08/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/20/07 **Analyzed:** 03/22/07 13:37 SRA (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
94-75-7	2,4-D	1	ND		0.0200	10.0
93-72-1	2,4,5-TP (Silvex)	1	ND		0.00500	1.00

2 compound(s) reported

3/23/2007 14:51:46

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
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Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: CARBON TK-#6-WATER (030807) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067454 **Sample Qu:**

Lab ID: 20506625 (TCLP) **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83515

Method: 8081 Pests TCLP **Units:** mg/L **Target List:** 8081_LL20

Collected: 03/08/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/16/07 **Analyzed:** 03/21/07 01:43 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
58-89-9	gamma-BHC (Lindane)	1	ND		0.000500	0.400
57-74-9	Chlordane	1	ND		0.00100	0.0300
72-20-8	Endrin	1	ND		0.00100	0.0200
76-44-8	Heptachlor	1	ND		0.000500	0.00800
1024-57-3	Heptachlor epoxide	1	ND		0.000500	0.00800
72-43-5	Methoxychlor	1	ND		0.00500	10.0
8001-35-2	Toxaphene	1	ND		0.0200	0.500

7 compound(s) reported

3/23/2007 14:51:46

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: CARBON TK-#6-WATER (030807) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067454 **Sample Qu:**

Lab ID: 20506625 (TCLP) **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83589

Method: 8151 Herbs TCLP **Units:** mg/L **Target List:** 8151 LL20

Collected: 03/08/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/20/07 **Analyzed:** 03/22/07 16:21 SRA (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
94-75-7	2,4-D	1	ND		0.0200	10.0
93-72-1	2,4,5-TP (Silvex)	1	ND		0.00500	1.00

2 compound(s) reported

3/23/2007 14:51:46

ND denotes Not Detected at or above the adjusted reporting limit.
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: CARBON TK-#3-WATER (030807) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067454 **Sample Qu:**

Lab ID: 20506626 (TCLP) **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83515

Method: 8081 Pests TCLP **Units:** mg/L **Target List:** 8081_LL20

Collected: 03/08/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/16/07 **Analyzed:** 03/21/07 01:59 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
58-89-9	gamma-BHC (Lindane)	1	ND		0.000500	0.400
57-74-9	Chlordane	1	ND		0.00100	0.0300
72-20-8	Endrin	1	ND		0.00100	0.0200
76-44-8	Heptachlor	1	ND		0.000500	0.00800
1024-57-3	Heptachlor epoxide	1	ND		0.000500	0.00800
72-43-5	Methoxychlor	1	ND		0.00500	10.0
8001-35-2	Toxaphene	1	ND		0.0200	0.500

7 compound(s) reported

3/23/2007 14:51:46

ND denotes Not Detected at or above the adjusted reporting limit.
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: CARBON TK-#3-WATER (030807) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067454 **Sample Qu:**

Lab ID: 20506626 (TCLP) **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83589

Method: 8151 Herbs TCLP **Units:** mg/L **Target List:** 8151 LL20

Collected: 03/08/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/20/07 **Analyzed:** 03/22/07 16:49 SRA (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
94-75-7	2,4-D	1	ND		0.0200	10.0
93-72-1	2,4,5-TP (Silvex)	1	ND		0.00500	1.00

2 compound(s) reported

3/23/2007 14:51:47

ND denotes Not Detected at or above the adjusted reporting limit.
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SOUTH MKP-TK (030807) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067454 **Sample Qu:**

Lab ID: 20506627 (TCLP) **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83515

Method: 8081 Pests TCLP **Units:** mg/L **Target List:** 8081_LL20

Collected: 03/08/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/16/07 **Analyzed:** 03/21/07 13:57 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
58-89-9	gamma-BHC (Lindane)	1	ND		0.000500	0.400
57-74-9	Chlordane	1	ND		0.00100	0.0300
72-20-8	Endrin	1	ND		0.00100	0.0200
76-44-8	Heptachlor	1	ND		0.000500	0.00800
1024-57-3	Heptachlor epoxide	1	ND		0.000500	0.00800
72-43-5	Methoxychlor	1	ND		0.00500	10.0
8001-35-2	Toxaphene	1	ND		0.0200	0.500

7 compound(s) reported

3/23/2007 14:51:47

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Client: Arcadis Geraghty & Miller

Client ID: SOUTH MKP-TK (030807)
Site: None
Project: MS BLUFFS (VICKSBURG,MS)
Project No.: 2067454
Sample Qu:
Lab ID: 20506627 (TCLP)
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: TCLP
Batch: 83633
Method: 8151 Herbs TCLP
Units: mg/L
Target List: 8151 LL20
Collected: 03/08/07
Received: 03/09/07
Prep Factor: 1
Prepared: 03/20/07
Analyzed: 03/22/07 18:11 SRA (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
94-75-7	2,4-D	1	ND		0.0200	10.0
93-72-1	2,4,5-TP (Silvex)	1	ND		0.00500	1.00

2 compound(s) reported

3/23/2007 14:51:47

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LELAP # 02006

Client ID: CARBON TK#6 (030807)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS (VICKSBURG,MS)
Site: None
Lab ID: 20506591 (TCLP)
Project No.: 2067454
Description: None
Matrix: Other
%Moisture: n/a
Collected: 03/08/07
Received: 03/09/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 21:08	KJR (1)	5.00
Barium	EPA 6010 (T	83448	10	ND	D2	mg/L	20.0	15-Mar-07	20-Mar-07 21:08	KJR (1)	100.
Cadmium	EPA 6010 (T	83448	10	ND	D2	mg/L	1.00	15-Mar-07	20-Mar-07 21:08	KJR (1)	1.00
Chromium	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 21:08	KJR (1)	5.00
Lead	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 21:08	KJR (1)	5.00
Mercury	EPA 7470 (T	83449	1	ND		mg/L	0.000200	15-Mar-07	15-Mar-07 17:35	MHB1 (1)	0.200
Selenium	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 21:08	KJR (1)	1.00
Silver	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 21:08	KJR (1)	5.00

8 parameter(s) reported

3/23/2007 14:51:50

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DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Client ID: CARBON TK#2 (030807)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS (VICKSBURG,MS)
Site: None
Lab ID: 20506592 (TCLP)
Project No.: 2067454
Description: None
Matrix: Other
%Moisture: n/a
Collected: 03/08/07
Received: 03/09/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 21:13	KJR (1)	5.00
Barium	EPA 6010 (T	83448	10	ND	D2	mg/L	20.0	15-Mar-07	20-Mar-07 21:13	KJR (1)	100.
Cadmium	EPA 6010 (T	83448	10	ND	D2	mg/L	1.00	15-Mar-07	20-Mar-07 21:13	KJR (1)	1.00
Chromium	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 21:13	KJR (1)	5.00
Lead	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 21:13	KJR (1)	5.00
Mercury	EPA 7470 (T	83449	1	ND		mg/L	0.000200	15-Mar-07	15-Mar-07 17:41	MHB1 (1)	0.200
Selenium	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 21:13	KJR (1)	1.00
Silver	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 21:13	KJR (1)	5.00

8 parameter(s) reported

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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Client ID: SOUTH MAP-TK (30807)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS (VICKSBURG,MS)
Site: None
Lab ID: 20506593 (TCLP)
Project No.: 2067454
Description: None
Matrix: Other
%Moisture: n/a
Collected: 03/08/07
Received: 03/09/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 21:19	KJR (1)	5.00
Barium	EPA 6010 (T	83448	10	ND	D2	mg/L	20.0	15-Mar-07	20-Mar-07 21:19	KJR (1)	100.
Cadmium	EPA 6010 (T	83448	10	ND	D2	mg/L	1.00	15-Mar-07	20-Mar-07 21:19	KJR (1)	1.00
Chromium	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 21:19	KJR (1)	5.00
Lead	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 21:19	KJR (1)	5.00
Mercury	EPA 7470 (T	83449	1	ND		mg/L	0.000200	15-Mar-07	15-Mar-07 17:43	MHB1 (1)	0.200
Selenium	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 21:19	KJR (1)	1.00
Silver	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 21:19	KJR (1)	5.00

8 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Client ID: CARBON TK-#6-WATER (030807)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS (VICKSBURG,MS)
Site: None
Lab ID: 20506625 (TCLP)
Project No.: 2067454
Description: None
Matrix: Water
%Moisture: n/a
Collected: 03/08/07
Received: 03/09/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 21:25	KJR (1)	5.00
Barium	EPA 6010 (T	83448	10	ND	D2	mg/L	20.0	15-Mar-07	20-Mar-07 21:25	KJR (1)	100.
Cadmium	EPA 6010 (T	83448	10	ND	D2	mg/L	1.00	15-Mar-07	20-Mar-07 21:25	KJR (1)	1.00
Chromium	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 21:25	KJR (1)	5.00
Lead	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 21:25	KJR (1)	5.00
Mercury	EPA 7470 (T	83449	1	ND		mg/L	0.000200	15-Mar-07	15-Mar-07 17:44	MHB1 (1)	0.200
Selenium	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 21:25	KJR (1)	1.00
Silver	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 21:25	KJR (1)	5.00

8 parameter(s) reported

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DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
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(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/23/2007 14:51:50

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health .Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: CARBON TK-#3-WATER (030807)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS (VICKSBURG,MS)
Site: None
Lab ID: 20506626 (TCLP)
Project No.: 2067454
Description: None
Matrix: Water
%Moisture: n/a
Collected: 03/08/07
Received: 03/09/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 21:30	KJR (1)	5.00
Barium	EPA 6010 (T	83448	10	ND	D2	mg/L	20.0	15-Mar-07	20-Mar-07 21:30	KJR (1)	100.
Cadmium	EPA 6010 (T	83448	10	ND	D2	mg/L	1.00	15-Mar-07	20-Mar-07 21:30	KJR (1)	1.00
Chromium	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 21:30	KJR (1)	5.00
Lead	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 21:30	KJR (1)	5.00
Mercury	EPA 7470 (T	83449	1	ND		mg/L	0.000200	15-Mar-07	15-Mar-07 17:46	MHB1 (1)	0.200
Selenium	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 21:30	KJR (1)	1.00
Silver	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 21:30	KJR (1)	5.00

8 parameter(s) reported

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St. Rose , LA 70087

Phone: 504.469.0333
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LELAP # 02006

Client ID: SOUTH MKP-TK (030807)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS (VICKSBURG,MS)
Site: None
Lab ID: 20506627 (TCLP)
Project No.: 2067454
Description: None
Matrix: Water
%Moisture: n/a
Collected: 03/08/07
Received: 03/09/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010 (T	83448	10	4.56	D2	mg/L	2.00	15-Mar-07	20-Mar-07 21:35	KJR (1)	5.00
Barium	EPA 6010 (T	83448	10	ND	D2	mg/L	20.0	15-Mar-07	20-Mar-07 21:35	KJR (1)	100.
Cadmium	EPA 6010 (T	83448	10	ND	D2	mg/L	1.00	15-Mar-07	20-Mar-07 21:35	KJR (1)	1.00
Chromium	EPA 6010 (T	83448	10	2.22	D2	mg/L	2.00	15-Mar-07	20-Mar-07 21:35	KJR (1)	5.00
Lead	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 21:35	KJR (1)	5.00
Mercury	EPA 7470 (T	83449	1	ND		mg/L	0.000200	15-Mar-07	15-Mar-07 17:48	MHB1 (1)	0.200
Selenium	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 21:35	KJR (1)	1.00
Silver	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 21:35	KJR (1)	5.00

8 parameter(s) reported

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Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: CARBON TK#6 (030807)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS (VICKSBURG,MS)
Site: None
Lab ID: 20506591
Project No.: 2067454
Description: None
Matrix: Other
%Moisture: n/a
Collected: 03/08/07
Received: 03/09/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Cyanide, Reactive	SW-846 7.3.3.	83360	1	ND		mg/kg	25.0	20-Mar-07	20-Mar-07 16:32	TAE (1)	
Flash Point	EPA 1010	83456	1	>100		deg C		16-Mar-07	16-Mar-07 13:50	SMS2 (1)	
pH	EPA 9045	83358	1	7.42		Std. Units		13-Mar-07	13-Mar-07 15:00	SMS2 (1)	
Sulfide, Reactive	SW-846 7.3.4.	83359	1	ND		mg/kg	49.8	15-Mar-07	15-Mar-07 09:15	SMS2 (1)	

4 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
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Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Phone: 504.469.0333
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LELAP # 02006

Client ID: CARBON TK#2 (030807)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS (VICKSBURG,MS)
Site: None
Lab ID: 20506592
Project No.: 2067454
Description: None
Matrix: Other
%Moisture: n/a
Collected: 03/08/07
Received: 03/09/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Cyanide, Reactive	SW-846 7.3.3.	83360	1	ND		mg/kg	25.0	20-Mar-07	20-Mar-07 16:32	TAE (1)	
Flash Point	EPA 1010	83620	1	>100		deg C		20-Mar-07	20-Mar-07 13:40	SMS2 (1)	
pH	EPA 9045	83358	1	6.57		Std. Units		13-Mar-07	13-Mar-07 15:00	SMS2 (1)	
Sulfide, Reactive	SW-846 7.3.4.	83359	1	ND		mg/kg	49.9	15-Mar-07	15-Mar-07 09:15	SMS2 (1)	

4 parameter(s) reported

3/23/2007 14:51:53

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: SOUTH MAP-TK (30807)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS (VICKSBURG,MS)
Site: None
Lab ID: 20506593
Project No.: 2067454
Description: None
Matrix: Other
%Moisture: n/a
Collected: 03/08/07
Received: 03/09/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Cyanide, Reactive	SW-846 7.3.3.	83360	1	ND		mg/kg	25.0	20-Mar-07	20-Mar-07 16:32	TAE (1)	
Flash Point	EPA 1010	83620	1	>100		deg C		20-Mar-07	20-Mar-07 13:40	SMS2 (1)	
pH	EPA 9045	83358	1	4.47		Std. Units		13-Mar-07	13-Mar-07 15:00	SMS2 (1)	
Sulfide, Reactive	SW-846 7.3.4.	83359	1	ND		mg/kg	49.7	15-Mar-07	15-Mar-07 09:15	SMS2 (1)	

4 parameter(s) reported

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DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: CARBON TK-#6-WATER (030807)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS (VICKSBURG,MS)
Site: None
Lab ID: 20506625
Project No.: 2067454
Description: None
Matrix: Water
%Moisture: n/a
Collected: 03/08/07
Received: 03/09/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Cyanide, Reactive	SW-846 7.3.3.	83360	1	ND		mg/kg	25.0	20-Mar-07	20-Mar-07 16:32	TAE (1)	
Flash Point	EPA 1010	83620	1	>100		deg C		20-Mar-07	20-Mar-07 13:40	SMS2 (1)	
pH	EPA 9040	83298	1	6.95		Std. Units		10-Mar-07	10-Mar-07 18:30	SMS2 (1)	
Sulfide, Reactive	SW-846 7.3.4.	83359	1	ND		mg/kg	49.7	15-Mar-07	15-Mar-07 09:15	SMS2 (1)	

4 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: CARBON TK-#3-WATER (030807)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS (VICKSBURG,MS)
Site: None
Lab ID: 20506626
Project No.: 2067454
Description: None
Matrix: Water
%Moisture: n/a
Collected: 03/08/07
Received: 03/09/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Cyanide, Reactive	SW-846 7.3.3.	83360	1	ND		mg/kg	25.0	20-Mar-07	20-Mar-07 16:32	TAE (1)	
Flash Point	EPA 1010	83620	1	>100		deg C		20-Mar-07	20-Mar-07 13:40	SMS2 (1)	
pH	EPA 9040	83298	1	7.26		Std. Units		10-Mar-07	10-Mar-07 18:30	SMS2 (1)	
Sulfide, Reactive	SW-846 7.3.4.	83359	1	ND		mg/kg	49.7	15-Mar-07	15-Mar-07 09:15	SMS2 (1)	

4 parameter(s) reported

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: SOUTH MKP-TK (030807)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS (VICKSBURG,MS)
Site: None
Lab ID: 20506627
Project No.: 2067454
Description: None
Matrix: Water
%Moisture: n/a
Collected: 03/08/07
Received: 03/09/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Cyanide, Reactive	SW-846 7.3.3.	83360	1	ND		mg/kg	25.0	20-Mar-07	20-Mar-07 16:32	TAE (1)	
Flash Point	EPA 1010	83620	1	>100		deg C		20-Mar-07	20-Mar-07 13:40	SMS2 (1)	
pH	EPA 9040	83298	1	6.35		Std. Units		10-Mar-07	10-Mar-07 18:30	SMS2 (1)	
Sulfide, Reactive	SW-846 7.3.4.	83359	1	ND		mg/kg	49.6	15-Mar-07	15-Mar-07 09:15	SMS2 (1)	

4 parameter(s) reported

3/23/2007 14:51:54

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Method: EPA 8260 **Project:** 2067454 **LCS:** 20507508 3/15/2007 11:01:00 AM

Batch: 83464 **MS:** 20507509 3/15/2007 3:13:00 PM

Units: mg/L **Original for MS:** 20506606 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Benzene	0.4	0.4374		109			0.4	0.00	0.4372	0.4314	109	108	1	70 - 135	60 - 144	20	
2-Butanone (MEK)	0.4	0.5242		131			0.4	0.00	0.5452	0.512	136	128	6	32 - 157	20 - 168	20	A11
Carbon tetrachloride	0.4	0.4256		106			0.4	0.00	0.4056	0.4124	101	103	2	50 - 166	44 - 170	20	
Chlorobenzene	0.4	0.399		100			0.4	0.00	0.4034	0.4022	101	101	0	73 - 129	67 - 134	20	
Chloroform	0.4	0.4606		115			0.4	0.00	0.4558	0.4452	114	111	2	71 - 133	64 - 140	20	
1,4-Dichlorobenzene	0.4	0.4052		101			0.4	0.00	0.4088	0.418	102	105	2	66 - 133	64 - 133	20	
1,2-Dichloroethane	0.4	0.479		120			0.4	0.00	0.4906	0.4776	123	119	3	53 - 164	51 - 161	20	
1,1-Dichloroethene	0.4	0.4054		101			0.4	0.00	0.4154	0.4206	104	105	1	51 - 143	44 - 152	20	
Hexachloro-1,3-butadiene	0.4	0.3756		94			0.4	0.00	0.347	0.3926	87	98	12	49 - 167	27 - 195	20	
Tetrachloroethene	0.4	0.4084		102			0.4	0.00	0.428	0.4066	107	102	5	42 - 156	39 - 151	20	
Trichloroethene	0.4	0.423		106			0.4	0.00	0.4034	0.3992	101	100	1	69 - 136	61 - 141	20	
Vinyl chloride	0.4	0.4282		107			0.4	0.00	0.3696	0.3874	92	97	5	40 - 146	28 - 161	20	

12 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Method: EPA 8260 **Project:** 2067454 **LCS:** 20507616 3/15/2007 6:44:00 PM

Batch: 83472 **MS:** 20507617 3/15/2007 7:22:00 PM

Units: mg/L **Original for MS:** 20506308 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Benzene	0.4	0.4372		109			0.4	0.00	0.4468	0.4398	112	110	2	70 - 135	60 - 144	20	
2-Butanone (MEK)	0.4	0.5162		129			0.4	0.00	0.4638	0.463	116	116	0	32 - 157	20 - 168	20	A11
Carbon tetrachloride	0.4	0.4064		102			0.4	0.00	0.417	0.4196	104	105	1	50 - 166	44 - 170	20	
Chlorobenzene	0.4	0.3936		98			0.4	0.00	0.398	0.395	100	99	1	73 - 129	67 - 134	20	
Chloroform	0.4	0.4568		114			0.4	0.00	0.4488	0.45	112	113	0	71 - 133	64 - 140	20	
1,4-Dichlorobenzene	0.4	0.4204		105			0.4	0.00	0.4194	0.4126	105	103	2	66 - 133	64 - 133	20	
1,2-Dichloroethane	0.4	0.4968		124			0.4	0.00	0.4888	0.4748	122	119	3	53 - 164	51 - 161	20	
1,1-Dichloroethene	0.4	0.4172		104			0.4	0.00	0.4186	0.4214	105	105	1	51 - 143	44 - 152	20	
Hexachloro-1,3-butadiene	0.4	0.3878		97			0.4	0.00	0.3658	0.3658	92	92	0	49 - 167	27 - 195	20	
Tetrachloroethene	0.4	0.3896		97			0.4	0.00	0.3934	0.3958	98	99	1	42 - 156	39 - 151	20	
Trichloroethene	0.4	0.4108		103			0.4	0.00	0.4118	0.4116	103	103	0	69 - 136	61 - 141	20	
Vinyl chloride	0.4	0.3918		98			0.4	0.00	0.381	0.4034	95	101	6	40 - 146	28 - 161	20	

12 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

3/23/2007 14:51:57

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Phone: 504.469.0333
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LELAP # 02006

Method: EPA 8270 **Project:** 2067454 **LCS:** 20508396 3/21/2007 2:20:00 PM

Batch: 83642 **MS:**

Units: mg/L **Original for MS:**

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
1,4-Dichlorobenzene	0.5	0.2422		48										17 - 97	-		
2,4-Dinitrotoluene	0.5	0.4294		86										43 - 121	-		
Hexachloro-1,3-butadiene	0.5	0.2267		45										20 - 101	-		
Hexachlorobenzene	0.5	0.3312		66										44 - 119	-		
Hexachloroethane	0.5	0.2156		43										15 - 96	-		
2-Methylphenol (o-Cresol)	0.5	0.3441		69										32 - 115	-		
4-Methylphenol (p-Cresol)	0.5	0.339		68										33 - 116	-		A7
Nitrobenzene	0.5	0.3585		72										31 - 118	-		
Pentachlorophenol	0.5	0.2982		60										32 - 133	-		
Pyridine	0.5	0.2825		57										40 - 120	-		
2,4,5-Trichlorophenol	0.5	0.3707		74										41 - 120	-		
2,4,6-Trichlorophenol	0.5	0.3679		74										39 - 120	-		

12 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Method: EPA 8270 **Project:** 2067454 **LCS:** 20509013 3/23/2007 11:13:00 AM

Batch: 83740 **MS:**

Units: mg/L **Original for MS:**

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
1,4-Dichlorobenzene	0.5	0.3078		62										17 - 97	-		
2,4-Dinitrotoluene	0.5	0.4436		89										43 - 121	-		
Hexachloro-1,3-butadiene	0.5	0.2462		49										20 - 101	-		
Hexachlorobenzene	0.5	0.4522		90										44 - 119	-		
Hexachloroethane	0.5	0.2706		54										15 - 96	-		
2-Methylphenol (o-Cresol)	0.5	0.4451		89										32 - 115	-		
4-Methylphenol (p-Cresol)	0.5	0.4472		89										33 - 116	-		A7
Nitrobenzene	0.5	0.3778		76										31 - 118	-		
Pentachlorophenol	0.5	0.5235		105										32 - 133	-		
Pyridine	0.5	0.3908		78										40 - 120	-		
2,4,5-Trichlorophenol	0.5	0.482		96										41 - 120	-		
2,4,6-Trichlorophenol	0.5	0.4891		98										39 - 120	-		

12 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Phone: 504.469.0333
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LELAP # 02006

Report: 2067454 **Batch: 83464**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20506591	Sample S1	140 *	116	107					
20506592	Sample S1	132 *	119	108					
20506593	Sample	128	117	108					
20506625	Sample	120	115	107					
20506626	Sample	121	116	108					
20507507	BLANK S1	149 *	116	107					
20507508	LCS	115	105	108					
20507509	MS	113	106	109					
20507510	MSD	119	100	108					
	QC limits:	71-129	68-124	74-122					

Sur 1: 4-Bromofluorobenzene (S)
Sur 2: Dibromofluoromethane (S)
Sur 3: Toluene-d8 (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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LELAP # 02006

Report: 2067454 **Batch: 83472**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20506627	Sample	113	116	108					
20507615	BLANK	109	114	109					
20507616	LCS	119	106	108					
20507617	MS	117	100	108					
20507618	MSD	118	103	108					
	QC limits:	71-129	68-124	74-122					

Sur 1: 4-Bromofluorobenzene (S)
Sur 2: Dibromofluoromethane (S)
Sur 3: Toluene-d8 (S)

*** denotes surrogate recovery outside of QC limits.**
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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LELAP # 02006

Report: 2067454 **Batch: 83642**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20506591	Sample S1	34	68	45	75	36	148 *		
20506592	Sample S1	34	65	42	73	33	137 *		
20506593	Sample S1	45	64	49	73	40	134 *		
20506625	Sample N,S1	4 *	65	54	75	40	135 *		
20506626	Sample N,S1	6 *	67	43	73	33	148 *		
20506627	Sample	17 *	44	65	71	55	130		
20508395	BLANK	77	52	31	66	24	77		
20508396	LCS	87	60	38	74	28	76		
20508793	BLANK	86	75	37	82	29	85		
20508794	LCS	99	81	45	80	34	83		
QC limits:		25-133	36-108	10-109	21-120	15-113	17-130		

Sur 1: 2,4,6-Tribromophenol (S)
Sur 2: 2-Fluorobiphenyl (S)
Sur 3: 2-Fluorophenol (S)
Sur 4: Nitrobenzene-d5 (S)
Sur 5: Phenol-d5 (S)
Sur 6: Terphenyl-d14 (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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LELAP # 02006

Report: 2067454 **Batch: 83740**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20506625	Sample N	95	85	41	87	31	92		
20506626	Sample N	90	83	39	84	28	82		
20509012	BLANK	86	75	37	82	29	85		
20509013	LCS	99	81	45	80	34	83		
QC limits:		25-133	36-108	10-109	21-120	15-113	17-130		

Sur 1: 2,4,6-Tribromophenol (S)
Sur 2: 2-Fluorobiphenyl (S)
Sur 3: 2-Fluorophenol (S)
Sur 4: Nitrobenzene-d5 (S)
Sur 5: Phenol-d5 (S)
Sur 6: Terphenyl-d14 (S)

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A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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LELAP # 02006

Lab ID: 20507507 (TCLP)

Description: 8260 VOAs Full List TCLP, BLK **Project No.:** 2067454

Method: EPA 8260 (TCLP) **Batch:** 83464 **Units:** mg/L

Prep Factor: 1 **Leached:** **Prepared:** 15-Mar-07 **Analyzed:** 03/15/07 10:42 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
71-43-2	Benzene	1	ND		0.250
78-93-3	2-Butanone (MEK)	1	ND	A11	0.500
56-23-5	Carbon tetrachloride	1	ND		0.250
108-90-7	Chlorobenzene	1	ND		0.250
67-66-3	Chloroform	1	ND		0.250
107-06-2	1,2-Dichloroethane	1	ND		0.250
75-35-4	1,1-Dichloroethene	1	ND		0.250
127-18-4	Tetrachloroethene	1	ND		0.250
79-01-6	Trichloroethene	1	ND		0.250
75-01-4	Vinyl chloride	1	ND		0.250

10 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Phone: 504.469.0333
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LELAP # 02006

Lab ID: 20507615 (TCLP)

Description: 8260 VOAs Full List TCLP, BLK **Project No.:** 2067454

Method: EPA 8260 (TCLP) **Batch:** 83472 **Units:** mg/L

Prep Factor: 1 **Leached:** **Prepared:** 15-Mar-07 **Analyzed:** 03/15/07 18:25 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
71-43-2	Benzene	1	ND		0.250
78-93-3	2-Butanone (MEK)	1	ND	A11	0.500
56-23-5	Carbon tetrachloride	1	ND		0.250
108-90-7	Chlorobenzene	1	ND		0.250
67-66-3	Chloroform	1	ND		0.250
107-06-2	1,2-Dichloroethane	1	ND		0.250
75-35-4	1,1-Dichloroethene	1	ND		0.250
127-18-4	Tetrachloroethene	1	ND		0.250
79-01-6	Trichloroethene	1	ND		0.250
75-01-4	Vinyl chloride	1	ND		0.250

10 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
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Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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LELAP # 02006

Lab ID: 20508395 (TCLP)

Description: 8270 SVOAs TCLP Blank **Project No.:** 2067454

Method: EPA 8270 (TCLP) **Batch:** 83642 **Units:** mg/L

Prep Factor: 1 **Leached:** **Prepared:** 20-Mar-07 **Analyzed:** 03/21/07 13:54 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
106-46-7	1,4-Dichlorobenzene	1	ND		0.100
121-14-2	2,4-Dinitrotoluene	1	ND		0.100
87-68-3	Hexachloro-1,3-butadiene	1	ND		0.100
118-74-1	Hexachlorobenzene	1	ND		0.100
67-72-1	Hexachloroethane	1	ND		0.100
95-48-7	2-Methylphenol (o-Cresol)	1	ND		0.100
108-39-4	3-Methylphenol (m-Cresol)	1	ND	A7	0.100
106-44-5	4-Methylphenol (p-Cresol)	1	ND	A7	0.100
98-95-3	Nitrobenzene	1	ND		0.100
87-86-5	Pentachlorophenol	1	ND		0.250
110-86-1	Pyridine	1	ND		0.100
95-95-4	2,4,5-Trichlorophenol	1	ND		0.250
88-06-2	2,4,6-Trichlorophenol	1	ND		0.100

13 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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Lab ID: 20509012 (TCLP)

Description: 8270 SVOAs TCLP Blank **Project No.:** 2067454

Method: EPA 8270 (TCLP) **Batch:** 83740 **Units:** mg/L

Prep Factor: 1 **Leached:** **Prepared:** 22-Mar-07 **Analyzed:** 03/23/07 10:42 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
106-46-7	1,4-Dichlorobenzene	1	ND		0.100
121-14-2	2,4-Dinitrotoluene	1	ND		0.100
87-68-3	Hexachloro-1,3-butadiene	1	ND		0.100
118-74-1	Hexachlorobenzene	1	ND		0.100
67-72-1	Hexachloroethane	1	ND		0.100
95-48-7	2-Methylphenol (o-Cresol)	1	ND		0.100
108-39-4	3-Methylphenol (m-Cresol)	1	ND	A7	0.100
106-44-5	4-Methylphenol (p-Cresol)	1	ND	A7	0.100
98-95-3	Nitrobenzene	1	ND		0.100
87-86-5	Pentachlorophenol	1	ND		0.250
110-86-1	Pyridine	1	ND		0.100
95-95-4	2,4,5-Trichlorophenol	1	ND		0.250
88-06-2	2,4,6-Trichlorophenol	1	ND		0.100

13 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Method: EPA 8081 **Project:** 2067454 **LCS:** 20507801 3/20/2007 7:24:00 PM

Batch: 83515 **MS:** 20507802 3/20/2007 9:03:00 PM

Units: mg/L **Original for MS:** 20506605 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
gamma-BHC (Lindane)	0.005	0.004666		93			0.005	0.00	0.004547	0.004508	91	90	1	39 - 153	18 - 171	20	
Endrin	0.005	0.006119		122			0.005	0.00	0.006092	0.005989	122	120	2	49 - 171	30 - 187	20	
Heptachlor	0.005	0.003024		61			0.005	0.00	0.002666	0.002724	53	55	2	33 - 152	14 - 159	20	
Heptachlor epoxide	0.005	0.00422		84			0.005	0.00	0.00411	0.004001	82	80	3	45 - 144	24 - 158	20	
Methoxychlor	0.005	0.004178		84			0.005	0.00	0.004476	0.004226	90	85	6	19 - 178	10 - 194	20	

5 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

3/23/2007 14:52:07

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health .Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

Pace Analytical®
New Orleans Laboratory

Report of Quality Control

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Method: EPA 8151 **Project:** 2067454 **LCS:** 20508189 3/21/2007 5:26:00 PM

Batch: 83589 **MS:** 20508190 3/21/2007 7:43:00 PM

Units: mg/L **Original for MS:** 20506606 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
2,4-D	0.1	0.1076		108			0.1	0.16	0.202	0.2295	40	67	13	25 - 163	10 - 182	20	Ph,Q1
2,4,5-TP (Silvex)	0.01	0.01073		107			0.01	0.00	0.01731	0.01304	173	130	28 *	30 - 165	15 - 174	20	Ph,Q3

2 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

3/23/2007 14:52:07

New Orleans Laboratory Certifications
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Report of Quality Control

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Method: EPA 8151 **Project:** 2067454 **LCS:** 20508349 3/22/2007 5:43:00 PM

Batch: 83633 **MS:**

Units: mg/L **Original for MS:**

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
2,4-D	0.1	0.1305		131										25 - 163	-		
2,4,5-TP (Silvex)	0.01	0.01335		134										30 - 165	-		

2 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

3/23/2007 14:52:07

New Orleans Laboratory Certifications
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Report of Batch Surrogate Recovery

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Report: 2067454 **Batch: 83515**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20506591	Sample	80	80	70	63				
20506592	Sample	83	84	69	79				
20506593	Sample	76	75	60	56				
20506625	Sample	75	74	59	55				
20506626	Sample	85	85	63	62				
20506627	Sample	70	68	62	46				
20507800	BLANK	96	98	70	70				
20507801	LCS	94	95	70	60				
20507802	MS	96	98	72	61				
20507803	MSD	92	93	71	59				
QC limits:		10-157	10-157	18-171	18-171				

Sur 1: Decachlorobiphenyl (Conf)(S)
Sur 2: Decachlorobiphenyl (S)
Sur 3: Tetrachloro-m-xylene (Conf)(S)
Sur 4: Tetrachloro-m-xylene (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

3/23/2007 14:52:10

New Orleans Laboratory Certifications
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Report of Batch Surrogate Recovery

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Report: 2067454 **Batch: 83589**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20506591	Sample	90	85						
20506592	Sample	118	108						
20506593	Sample	92	92						
20506625	Sample	93	96						
20506626	Sample	121	120						
20508188	BLANK	105	108						
20508189	LCS	112	116						
20508190	MS	111	134						
20508191	MSD	140	167						
	QC limits:	10-181	10-181						

Sur 1: 2,4-DCPA (Conf)(S)
Sur 2: 2,4-DCPA (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

3/23/2007 14:52:10

New Orleans Laboratory Certifications
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Report of Batch Surrogate Recovery

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Report: 2067454 **Batch: 83633**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20506627	Sample	123	125						
20508348	BLANK	122	128						
20508349	LCS	128	131						
	QC limits:	10-181	10-181						

Sur 1: 2,4-DCPA (Conf)(S)
Sur 2: 2,4-DCPA (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

3/23/2007 14:52:10

New Orleans Laboratory Certifications
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Report of Method Blank

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20507800 (TCLP)

Description: 8081 Pests TCLP Blank **Project No.:** 2067454

Method: EPA 8081 (TCLP) **Batch:** 83515 **Units:** mg/L

Prep Factor: 1 **Leached:** **Prepared:** 16-Mar-07 **Analyzed:** 03/20/07 19:08 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
58-89-9	gamma-BHC (Lindane)	1	ND		0.000500
57-74-9	Chlordane	1	ND		0.00100
72-20-8	Endrin	1	ND		0.00100
76-44-8	Heptachlor	1	ND		0.000500
1024-57-3	Heptachlor epoxide	1	ND		0.000500
72-43-5	Methoxychlor	1	ND		0.00500
8001-35-2	Toxaphene	1	ND		0.0200

7 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/23/2007 14:52:13

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
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Report of Method Blank

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20508188 (TCLP)

Description: 8151 Herbs TCLP Blank **Project No.:** 2067454

Method: EPA 8151 (TCLP) **Batch:** 83589 **Units:** mg/L

Prep Factor: 1 **Leached:** **Prepared:** 20-Mar-07 **Analyzed:** 03/21/07 16:59 SRA (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
94-75-7	2,4-D	1	ND		0.0200
93-72-1	2,4,5-TP (Silvex)	1	ND		0.00500

2 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/23/2007 14:52:13

New Orleans Laboratory Certifications
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Report of Method Blank

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1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20508348 (TCLP)

Description: 8151 Herbs TCLP Blank **Project No.:** 2067454

Method: EPA 8151 (TCLP) **Batch:** 83633 **Units:** mg/L

Prep Factor: 1 **Leached:** **Prepared:** 20-Mar-07 **Analyzed:** 03/22/07 17:16 SRA (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
94-75-7	2,4-D	1	ND		0.0200
93-72-1	2,4,5-TP (Silvex)	1	ND		0.00500

2 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/23/2007 14:52:13

New Orleans Laboratory Certifications
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Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2067454

Parameter	Batch	Blank	ARL	Units	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS DUP RPD	QC Limits LCS	QC Limits MS/MSD	RPD Max	Qu
Arsenic	83448	ND	0.200	mg/L	2	108			2	99	90	10	79 - 122	68 - 130	20	
Barium	83448	ND	2.00	mg/L	2	114			2	99	86	10	80 - 120	56 - 133	20	
Cadmium	83448	ND	0.100	mg/L	2	109			2	97	87	10	81 - 119	44 - 146	20	
Chromium	83448	ND	0.200	mg/L	2	107			2	94	85	10	81 - 120	58 - 135	20	
Lead	83448	ND	0.200	mg/L	2	109			2	97	88	10	79 - 122	58 - 131	20	
Selenium	83448	ND	0.200	mg/L	2	110			2	101	92	9	76 - 120	59 - 131	20	
Silver	83448	ND	0.200	mg/L	1	112			1	102	93	10	67 - 129	10 - 154	20	
Mercury	83449	ND	0.200	ug/L	1	101			1	111	112	1	80 - 120	75 - 125	20	

3/23/2007 14:52:16

ARL denotes Adjusted Reporting Limit , corrected for sample size, dilution and moisture content as applicable.
* denotes recovery outside of QC limits.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
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1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Wet Chemistry Quality Control Results

Project: 2067454

Parameter	Batch	Blank	ARL	Units	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	RPD Max	Qu
Cyanide, Reac	83360	ND	25.0	mg/kg	100	9			100	8			0	1 - 110	1 - 110	20	
Flash Point	83620			deg C	27	100								-	-		
Flash Point	83456			deg C	27	100								-	-		
pH	83358			1. Units	6	100							0	97 - 103	-	20	
pH	83298			1. Units	6	100							0	97 - 103	-	20	
Sulfide, Reacti	83359	ND	50.0	mg/kg	500	88			499.8	17			0	1 - 110	1 - 110	20	

3/23/2007 14:52:20

ARL denotes Adjusted Reporting Limit , corrected for sample size, dilution and moisture content as applicable.
* denotes recovery outside of QC limits.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Report Qualifiers

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2067454

ALL Qualifiers

Qualifier	Qualifier Description
N	See narrative for a detailed explanation.

Analyte Qualifiers

Qualifier	Qualifier Description
A7	3-Methylphenol and 4-methylphenol coelute under the conditions used for analysis, therefore the precise isomer in the sample cannot be determined. The sample concentration is arbitrarily reported as 4-methylphenol.
A11	This analyte is a common solvent. Its presence in field samples may be an artifact of sample collection, transport, laboratory storage or analysis.
Ph	The relative percent difference between the two detectors is greater than 40%, indicating interference on one or more detectors. The higher of the two values is reported.

General Qualifiers

Qualifier	Qualifier Description
D2	The analysis was performed at a dilution due to the presence of matrix interferences.

QC Qualifiers

Qualifier	Qualifier Description
Q1	The matrix spike recoveries are poor. Acceptable method performance for this analyte has been demonstrated by the laboratory control sample recovery.
Q3	The matrix spike recoveries are poor due to the presence of this analyte in the sample at a concentration greater than 4 times the spiked amount. Acceptable method performance for this analyte has been demonstrated by the laboratory control sample.
S1	The surrogate recovery was above the QC limit. The data are reported without qualification since the associated target analytes were not detected in the sample.

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

2067454

Page: 1 of 2

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: ARCADIS	Report To: Craig Derouen	Attention: ARCADIS - Accounts Payable
Address: 10352 Plaza Americana Drive	Copy To: Jane Kennedy	Company Name: ARCADIS
Baton Rouge, Louisiana 70816		Address: 10352 Plaza Americana; Baton Rouge, LA 70819
Email To: Craig.Derouen@arcadis-us.com; Jane.Kennedy@arcadis-us.com	Purchase Order No.:	Pace Quote Reference:
Phone: (225) 292-1004 Fax: (225) 218-9677	Project Name: MS Bluffs (Vicksburg, MS)	Pace Project Manager: Cindy Olavesen
Requested Due Date/TAT:	Project Number: LA002656.0001.0019	Pace Profile #:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER MDEQ TRGs

SITE LOCATION: GA IL IN MI NC OH SC WV OTHER MS

Section D Required Client Information

SAMPLE ID

One Character per box. (A-Z, 0-9 / ,-)
Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analyses Requested: TCLP VOA	TCLP SV	TCLP PEST	TCLP METALS	TCLP HERBS	RCI	Filtered (Y/N)	Pace Project Number / Lab I.D.
1	Carbon TK #6 (030807)	SL	G	3/8/07	0930				3	✓								✓	✓	✓	✓	✓	✓		20506591
2	Carbon TK #6-water (030807)	WW	6	03/8/07	1000				4	✓								✓	✓	✓	✓	✓	✓		625 544
3	Carbon TK #2 (030807)	SL	G	03/08/07	1051				3	✓								✓	✓	✓	✓	✓	✓		592
4	Carbon TK #2-water (030807)	WW	G	3/8/07	1300				4	✓								✓	✓	✓	✓	✓	✓		626 545
5	South MKP-TK (030807)	WW	G	3/8/07	1410				4	✓								✓	✓	✓	✓	✓	✓		627 546
6	South MAP-TK (030807)	SL	G	3/8/07	1454				4	✓								✓	✓	✓	✓	✓	✓		MW 593
7	T-542 (030807)	SL	G	3/8/07	1543				4	✓								✓	✓	✓	✓	✓	✓		
8	T-515 (030807)	WW	G	3/8/07	1630				4	✓								✓	✓	✓	✓	✓	✓		
9	R-611 (030907)	WW	G	3/9/07	0750				4	✓								✓	✓	✓	✓	✓	✓		
10	T-617 (030907)	WW	G	3-9-07	0815				4	✓								✓	✓	✓	✓	✓	✓		
11	Rosin Region Zone (030907)	SL	G	3-9-07	0940				3	✓								✓	✓	✓	✓	✓	✓		
12	South-Retest Comp-01 (030807)	WW	6	3-9-07	0905				4	✓								✓	✓	✓	✓	✓	✓		

Additional Comments:

MDEQ Tier 1 TRG Detection Limits

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
George Cook / Arcadis	3/9/07	1510	Marion Hudson / Pace	3-9-07	1510
Marion Hudson	3-9-07	1635	RBI Pace	3-9-07	1635

SAMPLE CONDITIONS

Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
2.3 2.7	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: George Cook

SIGNATURE of SAMPLER: George Cook

DATE Signed (MM/DD/YY): 03/09/07

5 coolers

E-File.(ALLQ020rev.3,31Mar05), 13Jun2005

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

2067454

Page: 1 of 2

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: ARCADIS	Report To: Craig Derouen	Attention: ARCADIS - Accounts Payable
Address: 10352 Plaza Americana Drive	Copy To: Jane Kennedy	Company Name: ARCADIS
Baton Rouge, Louisiana 70816		Address: 10352 Plaza Americana; Baton Rouge, LA 70819
Email To: Craig.Derouen@arcadis-us.com; Jane.Kennedy@arcadis-us.com	Purchase Order No.:	Pace Quote Reference:
Phone: (225) 292-1004 Fax: (225) 218-9677	Project Name: MS Bluffs (Vicksburg, MS)	Pace Project Manager: Cindy Olavesen
Requested Due Date/TAT:	Project Number: LA002656.0001.0019	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER MDEQ TRGs

SITE LOCATION ☐ GA ☐ IL ☐ IN ☐ MI ☐ NC ☐ OH ☐ SC ☑ WI ☐ OTHER MS

Filtered (Y/N)

Requested Analysis

Pace Project Number / Lab I.D.

Section D Required Client Information

SAMPLE ID

One Character per box.
(A-Z, 0-9 / ,-)
Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	TCLP VOA	TCLP SV	TCLP PEST	TCLP METALS	TCLP HERBS	RCI	Pace Project Number / Lab I.D.
1	Carbon TK #6 (030807)	SL	G	3/8/07	0930				3	✓								✓	✓	✓	✓	✓	✓	20506541
2	Carbon TK #6-waste (030807)	WW	6	03/8/07	1000				4	✓								✓	✓	✓	✓	✓	✓	625 544
3	Carbon TK #2 (030807)	SL	G	03/08/07	1051				3	✓								✓	✓	✓	✓	✓	✓	592
4	Carbon TK #3-waste (030807)	WW	G	3/8/07	1300				4	✓								✓	✓	✓	✓	✓	✓	626 545
5	South MKP-TK (030807)	WW	G	3/8/07	1410				4	✓								✓	✓	✓	✓	✓	✓	627 546
6	South MAP-TK (030807)	SL	G	3/8/07	1440				4	✓								✓	✓	✓	✓	✓	✓	MW 593
7	T-542 (030807)	SL	G	3/8/07	1543				4	✓								✓	✓	✓	✓	✓	✓	
8	T-515 (030807)	WW	G	3/8/07	1630				4	✓								✓	✓	✓	✓	✓	✓	
9	R-611 (030907)	WW	G	3/8/07	0750				4	✓								✓	✓	✓	✓	✓	✓	
10	T-617 (030907)	WW	G	3-9-07	0815				4	✓								✓	✓	✓	✓	✓	✓	
11	Rosin Region Zone (030507)	SL	G	3-5-07	0840				30	✓								✓	✓	✓	✓	✓	✓	
12	South-Bet2 Comp-01 (030807)	WW	G	3-8-07	0905				4	✓								✓	✓	✓	✓	✓	✓	

Additional Comments:

MDEQ Tier 1 TRG Detection Limits

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Geaige Crook / Arcadis	3/9/07	1510	[illegible]	3-9-07	1510
[illegible]	3-9-07	1635	RB/Pace	3-9-07	1635

SAMPLE CONDITIONS

Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
2.3 2.7	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Geaige Crook

SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 03/05/07

5 coolers

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

March 23, 2007

Craig Derouen
Arcadis Geraghty & Miller
10352 Plaza Americana Drive
Baton Rouge, LA 70816

RE: Project: 2067455
RE: Project ID: MS BLUFFS (VICKSBURG,MS)

Dear Craig Derouen:

Enclosed are the analytical results for sample(s) received by the laboratory on March 09, 2007. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Cindy Olavesen

Cindy Olavesen

ACCREDITED IN ACCORDANCE WITH nelac

REPORT OF LABORATORY ANALYSIS

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Report of Laboratory Analysis

Project Number: 2067455

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3/23/2007 07:44:18

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Sample Cross Reference Report

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Project: MS BLUFFS (VICKSBURG,MS)

Project No.: 2067455

Sample ID	Lab ID	Matrix	Collection Date/Time		Received Date/Time	
T-542 (030807)	20506599	Other	03/08/2007	15:43	03/09/2007	16:35
ROSIN REGEN ZONE (030807)	20506600	Other	03/08/2007	08:40	03/09/2007	16:35
R-611 (030907)	20506602	Water	03/09/2007	07:50	03/09/2007	16:35
T-617 (030907)	20506603	Water	03/09/2007	08:15	03/09/2007	16:35
SOUTH-BETZ COMP-01 (030907)	20506604	Water	03/09/2007	09:05	03/09/2007	16:35
T-515 (030807)	20506628	Water	03/08/2007	16:30	03/09/2007	16:35

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Project Narrative

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LELAP # 02006

Project: **2067455**

Sample Receipt Condition:

All samples were received in accordance with EPA protocol.

Holding Times:

All holding times were met.

Blanks:

All blank results were below reporting limits.

Laboratory Control Samples:

All LCS recoveries were within QC limits

Matrix Spikes and Duplicates:

MS or MSD recoveries outside of QC limits are qualified in the Report of Quality Control section.

Surrogates:

Surrogate recoveries outside of QC limits are qualified in the surrogate results section.

Regulatory, Permit or Client Specified Limits:

23 results were found that exceeded regulatory, permit or client specified limits.

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: T-542 (030807) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067455 **Sample Qu:**

Lab ID: 20506599 (TCLP) **Matrix:** Other **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83464

Method: 8260 VOAs TCLP **Units:** mg/L **Target List:** 8260_LL20

Collected: 03/08/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/15/07 **Analyzed:** 03/15/07 12:59 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	ND		0.100	0.500
78-93-3	2-Butanone (MEK)	1	0.372	A11	0.200	200.
56-23-5	Carbon tetrachloride	1	ND		0.100	0.500
108-90-7	Chlorobenzene	1	ND		0.100	100.
67-66-3	Chloroform	1	ND		0.100	6.00
107-06-2	1,2-Dichloroethane	1	ND		0.100	0.500
75-35-4	1,1-Dichloroethene	1	ND		0.100	0.700
127-18-4	Tetrachloroethene	1	ND		0.100	0.700
79-01-6	Trichloroethene	1	ND		0.100	0.500
75-01-4	Vinyl chloride	1	ND		0.100	0.200

10 compound(s) reported

3/23/2007 07:44:50

ND denotes Not Detected at or above the adjusted reporting limit.
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: T-542 (030807) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067455 **Sample Qu:**

Lab ID: 20506599 (TCLP) **Matrix:** Other **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83462

Method: 8270 SVOAs TCLP **Units:** mg/L **Target List:** 8270_LL20

Collected: 03/08/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/15/07 **Analyzed:** 03/19/07 18:50 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
106-46-7	1,4-Dichlorobenzene	1	ND		0.100	7.50
121-14-2	2,4-Dinitrotoluene	1	ND		0.100	0.130
87-68-3	Hexachloro-1,3-butadiene	1	ND		0.100	0.500
118-74-1	Hexachlorobenzene	1	ND		0.100	0.130
67-72-1	Hexachloroethane	1	ND		0.100	3.00
95-48-7	2-Methylphenol (o-Cresol)	1	ND		0.100	200.
108-39-4	3-Methylphenol (m-Cresol)	1	ND	A7	0.100	200.
106-44-5	4-Methylphenol (p-Cresol)	1	ND	A7	0.100	200.
98-95-3	Nitrobenzene	1	ND		0.100	2.00
87-86-5	Pentachlorophenol	1	ND		0.250	100.
110-86-1	Pyridine	1	ND		0.100	5.00
95-95-4	2,4,5-Trichlorophenol	1	ND		0.250	400.
88-06-2	2,4,6-Trichlorophenol	1	ND		0.100	2.00

13 compound(s) reported

3/23/2007 07:44:50

ND denotes Not Detected at or above the adjusted reporting limit.
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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: ROSIN REGEN ZONE (030807) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067455 **Sample Qu:**

Lab ID: 20506600 (TCLP) **Matrix:** Other **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83464

Method: 8260 VOAs TCLP **Units:** mg/L **Target List:** 8260_LL20

Collected: 03/08/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/15/07 **Analyzed:** 03/15/07 13:18 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	ND		0.100	0.500
78-93-3	2-Butanone (MEK)	1	ND	A11	0.200	200.
56-23-5	Carbon tetrachloride	1	ND		0.100	0.500
108-90-7	Chlorobenzene	1	ND		0.100	100.
67-66-3	Chloroform	1	ND		0.100	6.00
107-06-2	1,2-Dichloroethane	1	ND		0.100	0.500
75-35-4	1,1-Dichloroethene	1	ND		0.100	0.700
127-18-4	Tetrachloroethene	1	ND		0.100	0.700
79-01-6	Trichloroethene	1	ND		0.100	0.500
75-01-4	Vinyl chloride	1	ND		0.100	0.200

10 compound(s) reported

3/23/2007 07:44:50

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: ROSIN REGEN ZONE (030807) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067455 **Sample Qu:**

Lab ID: 20506600 (TCLP) **Matrix:** Other **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83462

Method: 8270 SVOAs TCLP **Units:** mg/L **Target List:** 8270_LL20

Collected: 03/08/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/15/07 **Analyzed:** 03/19/07 19:16 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
106-46-7	1,4-Dichlorobenzene	1	ND		0.100	7.50
121-14-2	2,4-Dinitrotoluene	1	ND		0.100	0.130
87-68-3	Hexachloro-1,3-butadiene	1	ND		0.100	0.500
118-74-1	Hexachlorobenzene	1	ND		0.100	0.130
67-72-1	Hexachloroethane	1	ND		0.100	3.00
95-48-7	2-Methylphenol (o-Cresol)	1	ND		0.100	200.
108-39-4	3-Methylphenol (m-Cresol)	1	ND	A7	0.100	200.
106-44-5	4-Methylphenol (p-Cresol)	1	ND	A7	0.100	200.
98-95-3	Nitrobenzene	1	ND		0.100	2.00
87-86-5	Pentachlorophenol	1	ND		0.250	100.
110-86-1	Pyridine	1	ND		0.100	5.00
95-95-4	2,4,5-Trichlorophenol	1	ND		0.250	400.
88-06-2	2,4,6-Trichlorophenol	1	ND		0.100	2.00

13 compound(s) reported

3/23/2007 07:44:50

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: R-611 (030907) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067455 **Sample Qu:**

Lab ID: 20506602 (TCLP) **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83464

Method: 8260 VOAs TCLP **Units:** mg/L **Target List:** 8260_LL20

Collected: 03/09/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/15/07 **Analyzed:** 03/15/07 13:38 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	ND		0.100	0.500
78-93-3	2-Butanone (MEK)	1	ND	A11	0.200	200.
56-23-5	Carbon tetrachloride	1	ND		0.100	0.500
108-90-7	Chlorobenzene	1	ND		0.100	100.
67-66-3	Chloroform	1	ND		0.100	6.00
107-06-2	1,2-Dichloroethane	1	ND		0.100	0.500
75-35-4	1,1-Dichloroethene	1	ND		0.100	0.700
127-18-4	Tetrachloroethene	1	ND		0.100	0.700
79-01-6	Trichloroethene	1	ND		0.100	0.500
75-01-4	Vinyl chloride	1	ND		0.100	0.200

10 compound(s) reported

3/23/2007 07:44:50

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: R-611 (030907) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067455 **Sample Qu:**

Lab ID: 20506602 (TCLP) **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83462

Method: 8270 SVOAs TCLP **Units:** mg/L **Target List:** 8270_LL20

Collected: 03/09/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/15/07 **Analyzed:** 03/19/07 19:42 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
106-46-7	1,4-Dichlorobenzene	1	ND		0.100	7.50
121-14-2	2,4-Dinitrotoluene	1	ND		0.100	0.130
87-68-3	Hexachloro-1,3-butadiene	1	ND		0.100	0.500
118-74-1	Hexachlorobenzene	1	ND		0.100	0.130
67-72-1	Hexachloroethane	1	ND		0.100	3.00
95-48-7	2-Methylphenol (o-Cresol)	1	ND		0.100	200.
108-39-4	3-Methylphenol (m-Cresol)	1	ND	A7	0.100	200.
106-44-5	4-Methylphenol (p-Cresol)	1	ND	A7	0.100	200.
98-95-3	Nitrobenzene	1	ND		0.100	2.00
87-86-5	Pentachlorophenol	1	ND		0.250	100.
110-86-1	Pyridine	1	ND		0.100	5.00
95-95-4	2,4,5-Trichlorophenol	1	ND		0.250	400.
88-06-2	2,4,6-Trichlorophenol	1	ND		0.100	2.00

13 compound(s) reported

3/23/2007 07:44:50

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: T-617 (030907) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067455 **Sample Qu:**

Lab ID: 20506603 (TCLP) **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83464

Method: 8260 VOAs TCLP **Units:** mg/L **Target List:** 8260_LL20

Collected: 03/09/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/15/07 **Analyzed:** 03/15/07 13:57 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	ND		0.100	0.500
78-93-3	2-Butanone (MEK)	1	ND	A11	0.200	200.
56-23-5	Carbon tetrachloride	1	ND		0.100	0.500
108-90-7	Chlorobenzene	1	ND		0.100	100.
67-66-3	Chloroform	1	ND		0.100	6.00
107-06-2	1,2-Dichloroethane	1	ND		0.100	0.500
75-35-4	1,1-Dichloroethene	1	ND		0.100	0.700
127-18-4	Tetrachloroethene	1	ND		0.100	0.700
79-01-6	Trichloroethene	1	ND		0.100	0.500
75-01-4	Vinyl chloride	1	ND		0.100	0.200

10 compound(s) reported

3/23/2007 07:44:50

ND denotes Not Detected at or above the adjusted reporting limit.
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Kansas Dept. of Health Environment - E-10266
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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: T-617 (030907) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067455 **Sample Qu:**

Lab ID: 20506603 (TCLP) **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83462

Method: 8270 SVOAs TCLP **Units:** mg/L **Target List:** 8270_LL20

Collected: 03/09/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/15/07 **Analyzed:** 03/19/07 20:08 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
106-46-7	1,4-Dichlorobenzene	1	ND		0.100	7.50
121-14-2	2,4-Dinitrotoluene	1	ND		0.100	0.130
87-68-3	Hexachloro-1,3-butadiene	1	ND		0.100	0.500
118-74-1	Hexachlorobenzene	1	ND		0.100	0.130
67-72-1	Hexachloroethane	1	ND		0.100	3.00
95-48-7	2-Methylphenol (o-Cresol)	1	ND		0.100	200.
108-39-4	3-Methylphenol (m-Cresol)	1	ND	A7	0.100	200.
106-44-5	4-Methylphenol (p-Cresol)	1	ND	A7	0.100	200.
98-95-3	Nitrobenzene	1	ND		0.100	2.00
87-86-5	Pentachlorophenol	1	ND		0.250	100.
110-86-1	Pyridine	1	ND		0.100	5.00
95-95-4	2,4,5-Trichlorophenol	1	ND		0.250	400.
88-06-2	2,4,6-Trichlorophenol	1	ND		0.100	2.00

13 compound(s) reported

3/23/2007 07:44:50

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SOUTH-BETZ COMP-01 (030907) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067455 **Sample Qu:**

Lab ID: 20506604 (TCLP) **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83464

Method: 8260 VOAs TCLP **Units:** mg/L **Target List:** 8260_LL20

Collected: 03/09/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/15/07 **Analyzed:** 03/15/07 14:16 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	ND		0.100	0.500
78-93-3	2-Butanone (MEK)	1	ND	A11	0.200	200.
56-23-5	Carbon tetrachloride	1	ND		0.100	0.500
108-90-7	Chlorobenzene	1	ND		0.100	100.
67-66-3	Chloroform	1	ND		0.100	6.00
107-06-2	1,2-Dichloroethane	1	ND		0.100	0.500
75-35-4	1,1-Dichloroethene	1	ND		0.100	0.700
127-18-4	Tetrachloroethene	1	ND		0.100	0.700
79-01-6	Trichloroethene	1	ND		0.100	0.500
75-01-4	Vinyl chloride	1	ND		0.100	0.200

10 compound(s) reported

3/23/2007 07:44:50

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SOUTH-BETZ COMP-01 (030907) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067455 **Sample Qu:**

Lab ID: 20506604 (TCLP) **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83462

Method: 8270 SVOAs TCLP **Units:** mg/L **Target List:** 8270_LL20

Collected: 03/09/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/15/07 **Analyzed:** 03/19/07 21:27 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
106-46-7	1,4-Dichlorobenzene	100	ND	D2	10.0	7.50
121-14-2	2,4-Dinitrotoluene	100	ND	D2	10.0	0.130
87-68-3	Hexachloro-1,3-butadiene	100	ND	D2	10.0	0.500
118-74-1	Hexachlorobenzene	100	ND	D2	10.0	0.130
67-72-1	Hexachloroethane	100	ND	D2	10.0	3.00
95-48-7	2-Methylphenol (o-Cresol)	100	ND	D2	10.0	200.
108-39-4	3-Methylphenol (m-Cresol)	100	ND	D2	10.0	200.
106-44-5	4-Methylphenol (p-Cresol)	100	ND	D2	10.0	200.
98-95-3	Nitrobenzene	100	ND	D2	10.0	2.00
87-86-5	Pentachlorophenol	100	ND	D2	25.0	100.
110-86-1	Pyridine	100	ND	D2	10.0	5.00
95-95-4	2,4,5-Trichlorophenol	100	ND	D2	25.0	400.
88-06-2	2,4,6-Trichlorophenol	100	ND	D2	10.0	2.00

13 compound(s) reported

3/23/2007 07:44:51

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: T-515 (030807) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067455 **Sample Qu:**

Lab ID: 20506628 (TCLP) **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83464

Method: 8260 VOAs TCLP **Units:** mg/L **Target List:** 8260_LL20

Collected: 03/08/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/15/07 **Analyzed:** 03/15/07 18:06 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	ND		0.100	0.500
78-93-3	2-Butanone (MEK)	1	ND	A11	0.200	200.
56-23-5	Carbon tetrachloride	1	ND		0.100	0.500
108-90-7	Chlorobenzene	1	ND		0.100	100.
67-66-3	Chloroform	1	ND		0.100	6.00
107-06-2	1,2-Dichloroethane	1	ND		0.100	0.500
75-35-4	1,1-Dichloroethene	1	ND		0.100	0.700
127-18-4	Tetrachloroethene	1	ND		0.100	0.700
79-01-6	Trichloroethene	1	ND		0.100	0.500
75-01-4	Vinyl chloride	1	ND		0.100	0.200

10 compound(s) reported

3/23/2007 07:44:51

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: T-515 (030807) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067455 **Sample Qu:**

Lab ID: 20506628 (TCLP) **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83462

Method: 8270 SVOAs TCLP **Units:** mg/L **Target List:** 8270_LL20

Collected: 03/08/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/15/07 **Analyzed:** 03/19/07 20:33 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
106-46-7	1,4-Dichlorobenzene	1	ND		0.100	7.50
121-14-2	2,4-Dinitrotoluene	1	ND		0.100	0.130
87-68-3	Hexachloro-1,3-butadiene	1	ND		0.100	0.500
118-74-1	Hexachlorobenzene	1	ND		0.100	0.130
67-72-1	Hexachloroethane	1	ND		0.100	3.00
95-48-7	2-Methylphenol (o-Cresol)	1	ND		0.100	200.
108-39-4	3-Methylphenol (m-Cresol)	1	ND	A7	0.100	200.
106-44-5	4-Methylphenol (p-Cresol)	1	ND	A7	0.100	200.
98-95-3	Nitrobenzene	1	ND		0.100	2.00
87-86-5	Pentachlorophenol	1	ND		0.250	100.
110-86-1	Pyridine	1	ND		0.100	5.00
95-95-4	2,4,5-Trichlorophenol	1	ND		0.250	400.
88-06-2	2,4,6-Trichlorophenol	1	ND		0.100	2.00

13 compound(s) reported

3/23/2007 07:44:51

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: T-542 (030807) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067455 **Sample Qu:**

Lab ID: 20506599 (TCLP) **Matrix:** Other **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83515

Method: 8081 Pests TCLP **Units:** mg/L **Target List:** 8081_LL20

Collected: 03/08/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/16/07 **Analyzed:** 03/20/07 23:14 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
58-89-9	gamma-BHC (Lindane)	1	ND		0.000500	0.400
57-74-9	Chlordane	1	ND		0.00100	0.0300
72-20-8	Endrin	1	ND		0.00100	0.0200
76-44-8	Heptachlor	1	ND		0.000500	0.00800
1024-57-3	Heptachlor epoxide	1	ND		0.000500	0.00800
72-43-5	Methoxychlor	1	ND		0.00500	10.0
8001-35-2	Toxaphene	1	ND		0.0200	0.500

7 compound(s) reported

3/23/2007 07:44:54

ND denotes Not Detected at or above the adjusted reporting limit.
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: T-542 (030807) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067455 **Sample Qu:**

Lab ID: 20506599 (TCLP) **Matrix:** Other **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83589

Method: 8151 Herbs TCLP **Units:** mg/L **Target List:** 8151_LL20

Collected: 03/08/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/20/07 **Analyzed:** 03/22/07 10:25 SRA (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
94-75-7	2,4-D	1	ND		0.0200	10.0
93-72-1	2,4,5-TP (Silvex)	1	ND		0.00500	1.00

2 compound(s) reported

3/23/2007 07:44:54

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: ROSIN REGEN ZONE (030807) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067455 **Sample Qu:**

Lab ID: 20506600 (TCLP) **Matrix:** Other **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83515

Method: 8081 Pests TCLP **Units:** mg/L **Target List:** 8081_LL20

Collected: 03/08/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/16/07 **Analyzed:** 03/20/07 23:31 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
58-89-9	gamma-BHC (Lindane)	1	ND		0.000500	0.400
57-74-9	Chlordane	1	ND		0.00100	0.0300
72-20-8	Endrin	1	ND		0.00100	0.0200
76-44-8	Heptachlor	1	ND		0.000500	0.00800
1024-57-3	Heptachlor epoxide	1	ND		0.000500	0.00800
72-43-5	Methoxychlor	1	ND		0.00500	10.0
8001-35-2	Toxaphene	1	ND		0.0200	0.500

7 compound(s) reported

3/23/2007 07:44:54

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Client: Arcadis Geraghty & Miller

Client ID: ROSIN REGEN ZONE (030807) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067455 **Sample Qu:**

Lab ID: 20506600 (TCLP) **Matrix:** Other **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83589

Method: 8151 Herbs TCLP **Units:** mg/L **Target List:** 8151_LL20

Collected: 03/08/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/20/07 **Analyzed:** 03/22/07 10:53 SRA (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
94-75-7	2,4-D	1	ND		0.0200	10.0
93-72-1	2,4,5-TP (Silvex)	1	ND		0.00500	1.00

2 compound(s) reported

3/23/2007 07:44:54

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: R-611 (030907) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067455 **Sample Qu:**

Lab ID: 20506602 (TCLP) **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83515

Method: 8081 Pests TCLP **Units:** mg/L **Target List:** 8081_LL20

Collected: 03/09/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/16/07 **Analyzed:** 03/20/07 23:47 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
58-89-9	gamma-BHC (Lindane)	1	ND		0.000500	0.400
57-74-9	Chlordane	1	ND		0.00100	0.0300
72-20-8	Endrin	1	ND		0.00100	0.0200
76-44-8	Heptachlor	1	ND		0.000500	0.00800
1024-57-3	Heptachlor epoxide	1	ND		0.000500	0.00800
72-43-5	Methoxychlor	1	ND		0.00500	10.0
8001-35-2	Toxaphene	1	ND		0.0200	0.500

7 compound(s) reported

3/23/2007 07:44:54

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Kansas Dept. of Health Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: R-611 (030907) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067455 **Sample Qu:**

Lab ID: 20506602 (TCLP) **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83589

Method: 8151 Herbs TCLP **Units:** mg/L **Target List:** 8151_LL20

Collected: 03/09/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/20/07 **Analyzed:** 03/22/07 11:20 SRA (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
94-75-7	2,4-D	1	ND		0.0200	10.0
93-72-1	2,4,5-TP (Silvex)	1	ND		0.00500	1.00

2 compound(s) reported

3/23/2007 07:44:54

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: T-617 (030907) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067455 **Sample Qu:**

Lab ID: 20506603 (TCLP) **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83515

Method: 8081 Pests TCLP **Units:** mg/L **Target List:** 8081_LL20

Collected: 03/09/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/16/07 **Analyzed:** 03/21/07 00:04 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
58-89-9	gamma-BHC (Lindane)	1	ND		0.000500	0.400
57-74-9	Chlordane	1	ND		0.00100	0.0300
72-20-8	Endrin	1	ND		0.00100	0.0200
76-44-8	Heptachlor	1	ND		0.000500	0.00800
1024-57-3	Heptachlor epoxide	1	ND		0.000500	0.00800
72-43-5	Methoxychlor	1	ND		0.00500	10.0
8001-35-2	Toxaphene	1	ND		0.0200	0.500

7 compound(s) reported

3/23/2007 07:44:54

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: T-617 (030907) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067455 **Sample Qu:**

Lab ID: 20506603 (TCLP) **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83589

Method: 8151 Herbs TCLP **Units:** mg/L **Target List:** 8151_LL20

Collected: 03/09/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/20/07 **Analyzed:** 03/22/07 11:47 SRA (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
94-75-7	2,4-D	1	ND		0.0200	10.0
93-72-1	2,4,5-TP (Silvex)	1	ND		0.00500	1.00

2 compound(s) reported

3/23/2007 07:44:54

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SOUTH-BETZ COMP-01 (030907) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067455 **Sample Qu:**

Lab ID: 20506604 (TCLP) **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83515

Method: 8081 Pests TCLP **Units:** mg/L **Target List:** 8081_LL20

Collected: 03/09/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/16/07 **Analyzed:** 03/21/07 00:20 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
58-89-9	gamma-BHC (Lindane)	1000	ND	D2	0.500	0.400
57-74-9	Chlordane	1000	ND	D2	1.00	0.0300
72-20-8	Endrin	1000	ND	D2	1.00	0.0200
76-44-8	Heptachlor	1000	ND	D2	0.500	0.00800
1024-57-3	Heptachlor epoxide	1000	ND	D2	0.500	0.00800
72-43-5	Methoxychlor	1000	ND	D2	5.00	10.0
8001-35-2	Toxaphene	1000	ND	D2	20.0	0.500

7 compound(s) reported

3/23/2007 07:44:54

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: SOUTH-BETZ COMP-01 (030907) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067455 **Sample Qu:**

Lab ID: 20506604 (TCLP) **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83589

Method: 8151 Herbs TCLP **Units:** mg/L **Target List:** 8151_LL20

Collected: 03/09/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/20/07 **Analyzed:** 03/22/07 14:59 SRA (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
94-75-7	2,4-D	1000	ND	D2	20.0	10.0
93-72-1	2,4,5-TP (Silvex)	1000	ND	D2	5.00	1.00

2 compound(s) reported

3/23/2007 07:44:54

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: T-515 (030807) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067455 **Sample Qu:**

Lab ID: 20506628 (TCLP) **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83515

Method: 8081 Pests TCLP **Units:** mg/L **Target List:** 8081_LL20

Collected: 03/08/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/16/07 **Analyzed:** 03/21/07 00:37 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
58-89-9	gamma-BHC (Lindane)	1	ND		0.000500	0.400
57-74-9	Chlordane	1	ND		0.00100	0.0300
72-20-8	Endrin	1	ND		0.00100	0.0200
76-44-8	Heptachlor	1	ND		0.000500	0.00800
1024-57-3	Heptachlor epoxide	1	ND		0.000500	0.00800
72-43-5	Methoxychlor	1	ND		0.00500	10.0
8001-35-2	Toxaphene	1	ND		0.0200	0.500

7 compound(s) reported

3/23/2007 07:44:55

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: T-515 (030807) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067455 **Sample Qu:**

Lab ID: 20506628 (TCLP) **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83589

Method: 8151 Herbs TCLP **Units:** mg/L **Target List:** 8151_LL20

Collected: 03/08/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/20/07 **Analyzed:** 03/22/07 12:15 SRA (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
94-75-7	2,4-D	1	ND		0.0200	10.0
93-72-1	2,4,5-TP (Silvex)	1	ND		0.00500	1.00

2 compound(s) reported

3/23/2007 07:44:55

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LELAP # 02006

Client ID: T-542 (030807) **Client:** Arcadis Geraghty & Miller

Project: MS BLUFFS (VICKSBURG,MS) **Site:** None

Lab ID: 20506599 (TCLP) **Project No.:** 2067455

Description: None **Matrix:** Other **%Moisture:** n/a

Collected: 03/08/07 **Received:** 03/09/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 20:26	KJR (1)	5.00
Barium	EPA 6010 (T	83448	10	ND	D2	mg/L	20.0	15-Mar-07	20-Mar-07 20:26	KJR (1)	100.
Cadmium	EPA 6010 (T	83448	10	ND	D2	mg/L	1.00	15-Mar-07	20-Mar-07 20:26	KJR (1)	1.00
Chromium	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 20:26	KJR (1)	5.00
Lead	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 20:26	KJR (1)	5.00
Mercury	EPA 7470 (T	83449	1	ND		mg/L	0.000200	15-Mar-07	15-Mar-07 17:24	MHB1 (1)	0.200
Selenium	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 20:26	KJR (1)	1.00
Silver	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 20:26	KJR (1)	5.00

8 parameter(s) reported

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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Phone: 504.469.0333
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LELAP # 02006

Client ID: ROSIN REGEN ZONE (030807) **Client:** Arcadis Geraghty & Miller

Project: MS BLUFFS (VICKSBURG,MS) **Site:** None

Lab ID: 20506600 (TCLP) **Project No.:** 2067455

Description: None **Matrix:** Other **%Moisture:** n/a

Collected: 03/08/07 **Received:** 03/09/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 20:31	KJR (1)	5.00
Barium	EPA 6010 (T	83448	10	ND	D2	mg/L	20.0	15-Mar-07	20-Mar-07 20:31	KJR (1)	100.
Cadmium	EPA 6010 (T	83448	10	ND	D2	mg/L	1.00	15-Mar-07	20-Mar-07 20:31	KJR (1)	1.00
Chromium	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 20:31	KJR (1)	5.00
Lead	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 20:31	KJR (1)	5.00
Mercury	EPA 7470 (T	83449	1	ND		mg/L	0.000200	15-Mar-07	15-Mar-07 17:26	MHB1 (1)	0.200
Selenium	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 20:31	KJR (1)	1.00
Silver	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 20:31	KJR (1)	5.00

8 parameter(s) reported

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Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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LELAP # 02006

Client ID: R-611 (030907)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS (VICKSBURG,MS)
Site: None
Lab ID: 20506602 (TCLP)
Project No.: 2067455
Description: None
Matrix: Water
%Moisture: n/a
Collected: 03/09/07
Received: 03/09/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010 (T	83448	10	3.50	D2	mg/L	2.00	15-Mar-07	20-Mar-07 20:37	KJR (1)	5.00
Barium	EPA 6010 (T	83448	10	ND	D2	mg/L	20.0	15-Mar-07	20-Mar-07 20:37	KJR (1)	100.
Cadmium	EPA 6010 (T	83448	10	ND	D2	mg/L	1.00	15-Mar-07	20-Mar-07 20:37	KJR (1)	1.00
Chromium	EPA 6010 (T	83448	10	2.02	D2	mg/L	2.00	15-Mar-07	20-Mar-07 20:37	KJR (1)	5.00
Lead	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 20:37	KJR (1)	5.00
Mercury	EPA 7470 (T	83449	1	ND		mg/L	0.000200	15-Mar-07	15-Mar-07 17:30	MHB1 (1)	0.200
Selenium	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 20:37	KJR (1)	1.00
Silver	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 20:37	KJR (1)	5.00

8 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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LELAP # 02006

Client ID: T-617 (030907)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS (VICKSBURG,MS)
Site: None
Lab ID: 20506603 (TCLP)
Project No.: 2067455
Description: None
Matrix: Water
%Moisture: n/a
Collected: 03/09/07
Received: 03/09/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010 (T	83448	10	5.46	D2	mg/L	2.00	15-Mar-07	20-Mar-07 20:42	KJR (1)	5.00
Barium	EPA 6010 (T	83448	10	ND	D2	mg/L	20.0	15-Mar-07	20-Mar-07 20:42	KJR (1)	100.
Cadmium	EPA 6010 (T	83448	10	ND	D2	mg/L	1.00	15-Mar-07	20-Mar-07 20:42	KJR (1)	1.00
Chromium	EPA 6010 (T	83448	10	3.23	D2	mg/L	2.00	15-Mar-07	20-Mar-07 20:42	KJR (1)	5.00
Lead	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 20:42	KJR (1)	5.00
Mercury	EPA 7470 (T	83449	1	ND		mg/L	0.000200	15-Mar-07	15-Mar-07 17:32	MHB1 (1)	0.200
Selenium	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 20:42	KJR (1)	1.00
Silver	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 20:42	KJR (1)	5.00

8 parameter(s) reported

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DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/23/2007 07:44:58

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: SOUTH-BETZ COMP-01 (030907) **Client:** Arcadis Geraghty & Miller

Project: MS BLUFFS (VICKSBURG,MS) **Site:** None

Lab ID: 20506604 (TCLP) **Project No.:** 2067455

Description: None **Matrix:** Water **%Moisture:** n/a

Collected: 03/09/07 **Received:** 03/09/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 20:47	KJR (1)	5.00
Barium	EPA 6010 (T	83448	10	ND	D2	mg/L	20.0	15-Mar-07	20-Mar-07 20:47	KJR (1)	100.
Cadmium	EPA 6010 (T	83448	10	ND	D2	mg/L	1.00	15-Mar-07	20-Mar-07 20:47	KJR (1)	1.00
Chromium	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 20:47	KJR (1)	5.00
Lead	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 20:47	KJR (1)	5.00
Mercury	EPA 7470 (T	83449	1	0.000838		mg/L	0.000200	15-Mar-07	15-Mar-07 17:34	MHB1 (1)	0.200
Selenium	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 20:47	KJR (1)	1.00
Silver	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 20:47	KJR (1)	5.00

8 parameter(s) reported

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Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Phone: 504.469.0333
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LELAP # 02006

Client ID: T-515 (030807)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS (VICKSBURG,MS)
Site: None
Lab ID: 20506628 (TCLP)
Project No.: 2067455
Description: None
Matrix: Water
%Moisture: n/a
Collected: 03/08/07
Received: 03/09/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 21:03	KJR (1)	5.00
Barium	EPA 6010 (T	83448	10	ND	D2	mg/L	20.0	15-Mar-07	20-Mar-07 21:03	KJR (1)	100.
Cadmium	EPA 6010 (T	83448	10	ND	D2	mg/L	1.00	15-Mar-07	20-Mar-07 21:03	KJR (1)	1.00
Chromium	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 21:03	KJR (1)	5.00
Lead	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 21:03	KJR (1)	5.00
Mercury	EPA 7470 (T	83449	1	ND		mg/L	0.000200	15-Mar-07	15-Mar-07 17:28	MHB1 (1)	0.200
Selenium	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 21:03	KJR (1)	1.00
Silver	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 21:03	KJR (1)	5.00

8 parameter(s) reported

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(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
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LELAP # 02006

Client ID: T-542 (030807)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS (VICKSBURG,MS)
Site: None
Lab ID: 20506599
Project No.: 2067455
Description: None
Matrix: Other
%Moisture: n/a
Collected: 03/08/07
Received: 03/09/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Cyanide, Reactive	SW-846 7.3.3.	83360	1	ND		mg/kg	25.0	20-Mar-07	20-Mar-07 16:24	TAE (1)	
Flash Point	EPA 1010	83456	1	>100		deg C		16-Mar-07	16-Mar-07 13:50	SMS2 (1)	
pH	EPA 9045	83358	1	5.86		Std. Units		13-Mar-07	13-Mar-07 15:00	SMS2 (1)	
Sulfide, Reactive	SW-846 7.3.4.	83359	1	ND		mg/kg	49.6	15-Mar-07	15-Mar-07 09:15	SMS2 (1)	

4 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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LELAP # 02006

Client ID: ROSIN REGEN ZONE (030807) **Client:** Arcadis Geraghty & Miller

Project: MS BLUFFS (VICKSBURG,MS) **Site:** None

Lab ID: 20506600 **Project No.:** 2067455

Description: None **Matrix:** Other **%Moisture:** n/a

Collected: 03/08/07 **Received:** 03/09/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Cyanide, Reactive	SW-846 7.3.3.	83360	1	ND		mg/kg	25.0	20-Mar-07	20-Mar-07 16:24	TAE (1)	
Flash Point	EPA 1010	83456	1	>100		deg C		16-Mar-07	16-Mar-07 13:50	SMS2 (1)	
pH	EPA 9045	83358	1	8.55		Std. Units		13-Mar-07	13-Mar-07 15:00	SMS2 (1)	
Sulfide, Reactive	SW-846 7.3.4.	83359	1	ND		mg/kg	49.5	15-Mar-07	15-Mar-07 09:15	SMS2 (1)	

4 parameter(s) reported

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Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/23/2007 07:45:01

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LELAP # 02006

Client ID: R-611 (030907)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS (VICKSBURG,MS)
Site: None
Lab ID: 20506602
Project No.: 2067455
Description: None
Matrix: Water
%Moisture: n/a
Collected: 03/09/07
Received: 03/09/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
Cyanide, Reactive	SW-846 7.3.3.	83360	1	ND		mg/kg	25.0	20-Mar-07	20-Mar-07 16:32 TAE (1)	
Flash Point	EPA 1010	83456	1	>100		deg C		16-Mar-07	16-Mar-07 13:50 SMS2 (1)	
pH	EPA 9040	83298	1	5.93		Std. Units		10-Mar-07	10-Mar-07 18:30 SMS2 (1)	
Sulfide, Reactive	SW-846 7.3.4.	83359	1	ND		mg/kg	49.9	15-Mar-07	15-Mar-07 09:15 SMS2 (1)	

4 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/23/2007 07:45:02

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LELAP # 02006

Client ID: T-617 (030907) **Client:** Arcadis Geraghty & Miller

Project: MS BLUFFS (VICKSBURG,MS) **Site:** None

Lab ID: 20506603 **Project No.:** 2067455

Description: None **Matrix:** Water **%Moisture:** n/a

Collected: 03/09/07 **Received:** 03/09/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Cyanide, Reactive	SW-846 7.3.3.	83360	1	ND		mg/kg	25.0	20-Mar-07	20-Mar-07 16:32	TAE (1)	
Flash Point	EPA 1010	83456	1	>100		deg C		16-Mar-07	16-Mar-07 13:50	SMS2 (1)	
pH	EPA 9040	83298	1	4.89		Std. Units		10-Mar-07	10-Mar-07 18:30	SMS2 (1)	
Sulfide, Reactive	SW-846 7.3.4.	83359	1	ND		mg/kg	49.6	15-Mar-07	15-Mar-07 09:15	SMS2 (1)	

4 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/23/2007 07:45:02

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Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
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LELAP # 02006

Client ID: SOUTH-BETZ COMP-01 (030907) **Client:** Arcadis Geraghty & Miller

Project: MS BLUFFS (VICKSBURG,MS) **Site:** None

Lab ID: 20506604 **Project No.:** 2067455

Description: None **Matrix:** Water **%Moisture:** n/a

Collected: 03/09/07 **Received:** 03/09/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Cyanide, Reactive	SW-846 7.3.3.	83360	1	ND		mg/kg	25.0	20-Mar-07	20-Mar-07 16:32	TAE (1)	
Flash Point	EPA 1010	83456	1	>100		deg C		16-Mar-07	16-Mar-07 13:50	SMS2 (1)	
pH	EPA 9040	83298	1	2.44		Std. Units		10-Mar-07	10-Mar-07 18:30	SMS2 (1)	
Sulfide, Reactive	SW-846 7.3.4.	83359	1	ND		mg/kg	49.8	15-Mar-07	15-Mar-07 09:15	SMS2 (1)	

4 parameter(s) reported

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Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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Phone: 504.469.0333
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LELAP # 02006

Client ID: T-515 (030807)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS (VICKSBURG,MS)
Site: None
Lab ID: 20506628
Project No.: 2067455
Description: None
Matrix: Water
%Moisture: n/a
Collected: 03/08/07
Received: 03/09/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Cyanide, Reactive	SW-846 7.3.3.	83360	1	ND		mg/kg	25.0	20-Mar-07	20-Mar-07 16:24	TAE (1)	
Flash Point	EPA 1010	83456	1	>100		deg C		16-Mar-07	16-Mar-07 13:50	SMS2 (1)	
pH	EPA 9040	83298	1	5.02		Std. Units		10-Mar-07	10-Mar-07 18:30	SMS2 (1)	
Sulfide, Reactive	SW-846 7.3.4.	83359	1	ND		mg/kg	49.7	15-Mar-07	15-Mar-07 09:15	SMS2 (1)	

4 parameter(s) reported

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Phone: 504.469.0333
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LELAP # 02006

Method: EPA 8260 **Project:** 2067455 **LCS:** 20507508 3/15/2007 11:01:00 AM

Batch: 83464 **MS:** 20507509 3/15/2007 3:13:00 PM

Units: mg/L **Original for MS:** 20506606 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Benzene	0.4	0.4374		109			0.4	0.00	0.4372	0.4314	109	108	1	70 - 135	60 - 144	20	
2-Butanone (MEK)	0.4	0.5242		131			0.4	0.00	0.5452	0.512	136	128	6	32 - 157	20 - 168	20	A11
Carbon tetrachloride	0.4	0.4256		106			0.4	0.00	0.4056	0.4124	101	103	2	50 - 166	44 - 170	20	
Chlorobenzene	0.4	0.399		100			0.4	0.00	0.4034	0.4022	101	101	0	73 - 129	67 - 134	20	
Chloroform	0.4	0.4606		115			0.4	0.00	0.4558	0.4452	114	111	2	71 - 133	64 - 140	20	
1,4-Dichlorobenzene	0.4	0.4052		101			0.4	0.00	0.4088	0.418	102	105	2	66 - 133	64 - 133	20	
1,2-Dichloroethane	0.4	0.479		120			0.4	0.00	0.4906	0.4776	123	119	3	53 - 164	51 - 161	20	
1,1-Dichloroethene	0.4	0.4054		101			0.4	0.00	0.4154	0.4206	104	105	1	51 - 143	44 - 152	20	
Hexachloro-1,3-butadiene	0.4	0.3756		94			0.4	0.00	0.347	0.3926	87	98	12	49 - 167	27 - 195	20	
Tetrachloroethene	0.4	0.4084		102			0.4	0.00	0.428	0.4066	107	102	5	42 - 156	39 - 151	20	
Trichloroethene	0.4	0.423		106			0.4	0.00	0.4034	0.3992	101	100	1	69 - 136	61 - 141	20	
Vinyl chloride	0.4	0.4282		107			0.4	0.00	0.3696	0.3874	92	97	5	40 - 146	28 - 161	20	

12 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Method: EPA 8270 **Project:** 2067455 **LCS:** 20507499 3/16/2007 6:10:00 PM

Batch: 83462 **MS:** 20507504 3/16/2007 6:37:00 PM

Units: mg/L **Original for MS:** 20506605 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
1,4-Dichlorobenzene	0.5	0.2321		46			0.5	0.00	0.1899	0.1954	38	39	3	17 - 97	12 - 98	20	
2,4-Dinitrotoluene	0.5	0.3483		70			0.5	0.00	0.4742	0.3242	95	65	38 *	43 - 121	36 - 125	20	
Hexachloro-1,3-butadiene	0.5	0.1789		36			0.5	0.00	0.1368	0.1968	27	39	36 *	20 - 101	14 - 102	20	
Hexachlorobenzene	0.5	0.3416		68			0.5	0.00	0.3333	0.3229	67	65	3	44 - 119	32 - 119	20	
Hexachloroethane	0.5	0.1921		38			0.5	0.00	0.1547	0.1796	31	36	15	15 - 96	10 - 101	20	
2-Methylphenol (o-Cresol)	0.5	0.3672		73			0.5	0.00	0.3156	0.3592	63	72	13	32 - 115	27 - 118	20	
4-Methylphenol (p-Cresol)	0.5	0.3553		71			0.5	0.00	0.343	0.3396	69	68	1	33 - 116	27 - 119	20	A7
Nitrobenzene	0.5	0.3587		72			0.5	0.00	0.3369	0.3439	67	69	2	31 - 118	16 - 136	20	
Pentachlorophenol	0.5	0.3017		60			0.5	0.00	0.3985	0.3442	80	69	15	32 - 133	24 - 147	20	
Pyridine	0.5	0.2212		44			0.5	0.00	0.014	0.0677	3 *	14 *	131 *	40 - 120	40 - 120	20	Q1
2,4,5-Trichlorophenol	0.5	0.3611		72			0.5	0.00	0.4821	0.3356	96	67	36 *	41 - 120	35 - 122	20	
2,4,6-Trichlorophenol	0.5	0.3744		75			0.5	0.00	0.4724	0.3582	95	72	27 *	39 - 120	33 - 124	20	

12 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

3/23/2007 07:45:05

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LELAP # 02006

Report: 2067455 **Batch: 83462**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20506599	Sample	92	68	38	83	31	96		
20506600	Sample	83	59	32	70	26	94		
20506602	Sample	83	53	47	69	40	72		
20506603	Sample	80	40	61	67	60	77		
20506604	Sample D2	0 D	0 D	3 D	0 D	0 D	0 D		
20506628	Sample	76	57	33	67	26	75		
20507498	BLANK	78	58	33	75	26	63		
20507499	LCS	83	59	31	73	24	69		
20507504	MS Q1	82	70	33	72	23	135 *		
20507505	MSD	82	56	33	71	26	71		
	QC limits:	25-133	36-108	10-109	21-120	15-113	17-130		

Sur 1: 2,4,6-Tribromophenol (S)
Sur 2: 2-Fluorobiphenyl (S)
Sur 3: 2-Fluorophenol (S)
Sur 4: Nitrobenzene-d5 (S)
Sur 5: Phenol-d5 (S)
Sur 6: Terphenyl-d14 (S)

*** denotes surrogate recovery outside of QC limits.**
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
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A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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Report: 2067455 **Batch: 83464**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20506599	Sample	117	116	107					
20506600	Sample	125	119	108					
20506602	Sample	119	115	107					
20506603	Sample	126	118	108					
20506604	Sample S1	131 *	114	107					
20506628	Sample	114	114	107					
20507507	BLANK S1	149 *	116	107					
20507508	LCS	115	105	108					
20507509	MS	113	106	109					
20507510	MSD	119	100	108					
	QC limits:	71-129	68-124	74-122					

Sur 1: 4-Bromofluorobenzene (S)
Sur 2: Dibromofluoromethane (S)
Sur 3: Toluene-d8 (S)

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A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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Lab ID: 20507498 (TCLP)

Description: 8270 SVOAs TCLP Blank **Project No.:** 2067455

Method: EPA 8270 (TCLP) **Batch:** 83462 **Units:** mg/L

Prep Factor: 1 **Leached:** **Prepared:** 15-Mar-07 **Analyzed:** 03/16/07 17:44 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
106-46-7	1,4-Dichlorobenzene	1	ND		0.100
121-14-2	2,4-Dinitrotoluene	1	ND		0.100
87-68-3	Hexachloro-1,3-butadiene	1	ND		0.100
118-74-1	Hexachlorobenzene	1	ND		0.100
67-72-1	Hexachloroethane	1	ND		0.100
95-48-7	2-Methylphenol (o-Cresol)	1	ND		0.100
108-39-4	3-Methylphenol (m-Cresol)	1	ND	A7	0.100
106-44-5	4-Methylphenol (p-Cresol)	1	ND	A7	0.100
98-95-3	Nitrobenzene	1	ND		0.100
87-86-5	Pentachlorophenol	1	ND		0.250
110-86-1	Pyridine	1	ND		0.100
95-95-4	2,4,5-Trichlorophenol	1	ND		0.250
88-06-2	2,4,6-Trichlorophenol	1	ND		0.100

13 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Lab ID: 20507507 (TCLP)

Description: 8260 VOAs Full List TCLP, BLK **Project No.:** 2067455

Method: EPA 8260 (TCLP) **Batch:** 83464 **Units:** mg/L

Prep Factor: 1 **Leached:** **Prepared:** 15-Mar-07 **Analyzed:** 03/15/07 10:42 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
71-43-2	Benzene	1	ND		0.250
78-93-3	2-Butanone (MEK)	1	ND	A11	0.500
56-23-5	Carbon tetrachloride	1	ND		0.250
108-90-7	Chlorobenzene	1	ND		0.250
67-66-3	Chloroform	1	ND		0.250
107-06-2	1,2-Dichloroethane	1	ND		0.250
75-35-4	1,1-Dichloroethene	1	ND		0.250
127-18-4	Tetrachloroethene	1	ND		0.250
79-01-6	Trichloroethene	1	ND		0.250
75-01-4	Vinyl chloride	1	ND		0.250

10 compound(s) reported

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Method: EPA 8081 **Project:** 2067455 **LCS:** 20507801 3/20/2007 7:24:00 PM

Batch: 83515 **MS:** 20507802 3/20/2007 9:03:00 PM

Units: mg/L **Original for MS:** 20506605 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
gamma-BHC (Lindane)	0.005	0.004666		93			0.005	0.00	0.004547	0.004508	91	90	1	39 - 153	18 - 171	20	
Endrin	0.005	0.006119		122			0.005	0.00	0.006092	0.005989	122	120	2	49 - 171	30 - 187	20	
Heptachlor	0.005	0.003024		61			0.005	0.00	0.002666	0.002724	53	55	2	33 - 152	14 - 159	20	
Heptachlor epoxide	0.005	0.00422		84			0.005	0.00	0.00411	0.004001	82	80	3	45 - 144	24 - 158	20	
Methoxychlor	0.005	0.004178		84			0.005	0.00	0.004476	0.004226	90	85	6	19 - 178	10 - 194	20	

5 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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LELAP # 02006

Method: EPA 8151 **Project:** 2067455 **LCS:** 20508189 3/21/2007 5:26:00 PM

Batch: 83589 **MS:**

Units: mg/L **Original for MS:**

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
2,4-D	0.1	0.1076		108										25 - 163	-		
2,4,5-TP (Silvex)	0.01	0.01073		107										30 - 165	-		

2 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Report: 2067455 **Batch: 83515**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20506599	Sample	81	72	64	60				
20506600	Sample	82	80	72	76				
20506602	Sample	65	66	58	55				
20506603	Sample	69	70	62	58				
20506604	Sample D1	0 D	0 D	0 D	0 D				
20506628	Sample	89	90	79	72				
20507800	BLANK	96	98	70	70				
20507801	LCS	94	95	70	60				
20507802	MS	96	98	72	61				
20507803	MSD	92	93	71	59				
	QC limits:	10-157	10-157	18-171	18-171				

Sur 1: Decachlorobiphenyl (Conf)(S)
Sur 2: Decachlorobiphenyl (S)
Sur 3: Tetrachloro-m-xylene (Conf)(S)
Sur 4: Tetrachloro-m-xylene (S)

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D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
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A Lab ID with a MSD suffix is a matrix spike duplicate.

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LELAP # 02006

Report: 2067455 **Batch: 83589**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20506599	Sample	98	100						
20506600	Sample	108	119						
20506602	Sample	96	102						
20506603	Sample	89	93						
20506604	Sample D2	0 D	0 D						
20506628	Sample	62	65						
20508188	BLANK	105	108						
20508189	LCS	112	116						
	QC limits:	10-181	10-181						

Sur 1: 2,4-DCPA (Conf)(S)
Sur 2: 2,4-DCPA (S)

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D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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Lab ID: 20507800 (TCLP)

Description: 8081 Pests TCLP Blank **Project No.:** 2067455

Method: EPA 8081 (TCLP) **Batch:** 83515 **Units:** mg/L

Prep Factor: 1 **Leached:** **Prepared:** 16-Mar-07 **Analyzed:** 03/20/07 19:08 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
58-89-9	gamma-BHC (Lindane)	1	ND		0.000500
57-74-9	Chlordane	1	ND		0.00100
72-20-8	Endrin	1	ND		0.00100
76-44-8	Heptachlor	1	ND		0.000500
1024-57-3	Heptachlor epoxide	1	ND		0.000500
72-43-5	Methoxychlor	1	ND		0.00500
8001-35-2	Toxaphene	1	ND		0.0200

7 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
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RL denotes sample Reporting Limit.
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Lab ID: 20508188 (TCLP)
Description: 8151 Herbs TCLP Blank **Project No.:** 2067455
Method: EPA 8151 (TCLP) **Batch:** 83589 **Units:** mg/L

Prep Factor: 1 **Leached:** **Prepared:** 20-Mar-07 **Analyzed:** 03/21/07 16:59 SRA (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
94-75-7	2,4-D	1	ND		0.0200
93-72-1	2,4,5-TP (Silvex)	1	ND		0.00500

2 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
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Project: 2067455

Parameter	Batch	Blank	ARL	Units	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS DUP RPD	RPD	QC Limits LCS	QC Limits MS/MSD	RPD Max	Qu
Arsenic	83448	ND	0.200	mg/L	2	108			2	99	90	10		79 - 122	68 - 130	20	
Barium	83448	ND	2.00	mg/L	2	114			2	99	86	10		80 - 120	56 - 133	20	
Cadmium	83448	ND	0.100	mg/L	2	109			2	97	87	10		81 - 119	44 - 146	20	
Chromium	83448	ND	0.200	mg/L	2	107			2	94	85	10		81 - 120	58 - 135	20	
Lead	83448	ND	0.200	mg/L	2	109			2	97	88	10		79 - 122	58 - 131	20	
Selenium	83448	ND	0.200	mg/L	2	110			2	101	92	9		76 - 120	59 - 131	20	
Silver	83448	ND	0.200	mg/L	1	112			1	102	93	10		67 - 129	10 - 154	20	
Mercury	83449	ND	0.200	ug/L	1	101			1	111	112	1		80 - 120	75 - 125	20	

3/23/2007 07:45:23

ARL denotes Adjusted Reporting Limit , corrected for sample size, dilution and moisture content as applicable.
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Wet Chemistry Quality Control Results

Project: 2067455

Parameter	Batch	Blank	ARL	Units	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	RPD Max	Qu
Cyanide, Reac	83360	ND	25.0	mg/kg	100	9			100	8			0	1 - 110	1 - 110	20	
Flash Point	83456			deg C	27	100								-	-		
pH	83358			1. Units	6	100							0	97 - 103	-	20	
pH	83298			1. Units	6	100							0	97 - 103	-	20	
Sulfide, Reacti	83359	ND	50.0	mg/kg	500	88			499.8	17			0	1 - 110	1 - 110	20	

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ARL denotes Adjusted Reporting Limit , corrected for sample size, dilution and moisture content as applicable.
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(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health .Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

Pace Analytical®
New Orleans Laboratory

Report Qualifiers

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2067455

Analyte Qualifiers

Qualifier	Qualifier Description
A7	3-Methylphenol and 4-methylphenol coelute under the conditions used for analysis, therefore the precise isomer in the sample cannot be determined. The sample concentration is arbitrarily reported as 4-methylphenol.
A11	This analyte is a common solvent. Its presence in field samples may be an artifact of sample collection, transport, laboratory storage or analysis.

General Qualifiers

Qualifier	Qualifier Description
D1	The analysis was performed at a dilution due to the high analyte concentration.
D2	The analysis was performed at a dilution due to the presence of matrix interferences.

QC Qualifiers

Qualifier	Qualifier Description
Q1	The matrix spike recoveries are poor. Acceptable method performance for this analyte has been demonstrated by the laboratory control sample recovery.
S1	The surrogate recovery was above the QC limit. The data are reported without qualification since the associated target analytes were not detected in the sample.

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Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
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Kansas Dept. of Health Environment - E-10266
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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

2067455

Page: 1 of 2

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: ARCADIS	Report To: Craig Derouen	Attention: ARCADIS - Accounts Payable
Address: 10352 Plaza Americana Drive	Copy To: Jane Kennedy	Company Name: ARCADIS
Baton Rouge, Louisiana 70816		Address: 10352 Plaza Americana; Baton Rouge, LA 70819
Email To: Craig.Derouen@arcadis-us.com; Jane.Kennedy@arcadis-us.com	Purchase Order No.:	Pace Quote Reference:
Phone: (225) 292-1004 Fax: (225) 218-9677	Project Name: MS Bluffs (Vicksburg, MS)	Pace Project Manager: Cindy Olavesen
Requested Due Date/TAT:	Project Number: LA002656.0001.0019	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER MDEQ TRGs

SITE LOCATION: ☐ GA ☐ IL ☐ IN ☐ MI ☐ NC ☐ OH ☐ SC ☐ WI ☑ OTHER MS

Section D Required Client Information

SAMPLE ID
One Character per box.
(A-Z, 0-9 / ,-)
Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analyses: TCLP VOA	TCLP SV	TCLP PEST	TCLP METALS	TCLP HERBS	RCI	Pace Project Number / Lab I.D.
1	Carbon TK#6 (030807)	SL	G	3/8/07	0930				3	✓								✓	✓	✓	✓	✓	✓	
2	Carbon TK-~~1~~ #6-water (030807)	WW	6	03/8/07	1000				4	✓								✓	✓	✓	✓	✓	✓	
3	Carbon TK#2 (030807)	SL	G	03/08/07	1051				3	✓								✓	✓	✓	✓	✓	✓	
4	Carbon TK#3-water (030807)	WW	G	3/8/07	1308				4	✓								✓	✓	✓	✓	✓	✓	
5	South MKP-TK (030807)	WW	G	3/8/07	1410				4	✓								✓	✓	✓	✓	✓	✓	
6	South MAP-TK (030807)	SL	G	3/8/07	1445				4	✓								✓	✓	✓	✓	✓	✓	
7	T-54 (030807)	SL	G	3/8/07	1543				4	✓								✓	✓	✓	✓	✓	✓	2056599
8	T-55 (030807)	WW	G	3/8/07	1630				4	✓								✓	✓	✓	✓	✓	✓	600 ~~601~~
9	R-61 (030907)	WW	G	3/9/07	0750				4	✓								✓	✓	✓	✓	✓	✓	602
10	T-617 (030907)	WW	G	3-9-07	0815				4	✓								✓	✓	✓	✓	✓	✓	603
11	Rosin Lagoon Zone (030907)	SL	G	3-9-07	0840				3	✓								✓	✓	✓	✓	✓	✓	600
12	South-Betz Comp-01 (030907)	WW	G	3-9-07	0905				4	✓								✓	✓	✓	✓	✓	✓	604

Additional Comments:

MDEQ Tier 1 TRG Detection Limits

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Geoge Cook / Arcadis	3/9/07	1510	Marion Williams / Pace	3-9-07	1510
Marion Williams	3-9-07	1635	RB / Pace	3-9-07	1635

SAMPLE CONDITIONS

Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Geoge E Cook

SIGNATURE of SAMPLER: Geoge E Cook

DATE Signed (MM/DD/YY): 03/09/07

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CHAIN-OF-CUSTODY / Analytical Request Document

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2067455

Page: 1 of 2

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: ARCADIS	Report To: Craig Derouen	Attention: ARCADIS - Accounts Payable
Address: 10352 Plaza Americana Drive	Copy To: Jane Kennedy	Company Name: ARCADIS
Baton Rouge, Louisiana 70816		Address: 10352 Plaza Americana; Baton Rouge, LA 70819
Email To: Craig.Derouen@arcadis-us.com; Jane.Kennedy@arcadis-us.com	Purchase Order No.:	Pace Quote Reference:
Phone: (225) 292-1004 Fax: (225) 218-9677	Project Name: MS Bluffs (Vicksburg, MS)	Pace Project Manager: Cindy Olavesen
Requested Due Date/TAT:	Project Number: LA002656.0001.0019	Pace Profile #:

REGULATORY AGENCY

NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐
UST ☐ RCRA ☐ OTHER MDEQ TRGs

SITE LOCATION: GA ☐ IL ☐ IN ☐ MI ☐ NC ☐ OH ☐ SC ☐ W ☑ OTHER MS

Valid Matrix Codes: MATRIX / CODE — DRINKING WATER / DW; WATER / WT; WASTE WATER / WW; PRODUCT / P; SOIL/SOLID / SL; OIL / OL; WIPE / WP; AIR / AR; OTHER / OT; TISSUE / TS

ITEM #	Section D Required Client Information — SAMPLE ID (One Character per box. (A-Z, 0-9 / ,-) Samples IDs MUST BE UNIQUE)	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Filtered (Y/N)	Requested Analysis: TCLP VOA	TCLP SV	TCLP PEST	TCLP METALS	TCLP HERBS	RCI	Pace Project Number / Lab I.D.
1	Carbon TK#6 (030807)	SL	G	3/8/07	0930				3	✓									✓	✓	✓	✓	✓	✓	
2	Carbon TK#6-water (030807)	WW	G	03/8/07	1000				4	✓									✓	✓	✓	✓	✓	✓	
3	Carbon TK#2 (030807)	SL	G	03/8/07	1051				3	✓									✓	✓	✓	✓	✓	✓	
4	Carbon TK#2-water (030807)	WW	G	3/8/07	1300				4	✓									✓	✓	✓	✓	✓	✓	
5	South MKP-TK (030807)	WW	G	3/8/07	1410				4	✓									✓	✓	✓	✓	✓	✓	
6	South MAP-TK (030807)	SL	G	3/8/07	1440				4	✓									✓	✓	✓	✓	✓	✓	
7	T-542 (030807)	SL	G	3/8/07	1543				4	✓									✓	✓	✓	✓	✓	✓	2056 6599
8	T-515 (030807)	WW	G	3/8/07	1630				4	✓									✓	✓	✓	✓	✓	✓	628 ~~601~~
9	R-611 (030907)	WW	G	3/8/07	0750				4	✓									✓	✓	✓	✓	✓	✓	7 602
10	T-617 (030907)	WW	G	3-9-07	0815				4	✓									✓	✓	✓	✓	✓	✓	603
11	Rosin Region Zone (030907)	SL	G	3-9-07	0840				30	✓									✓	✓	✓	✓	✓	✓	600
12	South-Bete Comp-01 (030807)	WW	G	3-9-07	0905				4	✓									✓	✓	✓	✓	✓	✓	604

Additional Comments:

MDEQ Tier 1 TRG Detection Limits

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
George Cook / Arcadis	3/9/07	1510	Marion Lum / Pace	3-9-07	1510
Marion Lum	3-9-07	1635	RCB / Pace	3-9-07	1635

SAMPLE CONDITIONS

Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: George Cook

SIGNATURE of SAMPLER: George Cook

DATE Signed (MM / DD / YY): 03/09/07

Pace Analytical®
New Orleans Laboratory

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

March 23, 2007

Craig Derouen
Arcadis Geraghty & Miller
10352 Plaza Americana Drive
Baton Rouge, LA 70816

RE: Project: 2067456
RE: Project ID: MS BLUFFS (VICKSBURG,MS)

Dear Craig Derouen:

Enclosed are the analytical results for sample(s) received by the laboratory on March 09, 2007. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Cindy Olavesen

Cindy Olavesen

ACCREDITED IN ACCORDANCE WITH nelac

REPORT OF LABORATORY ANALYSIS

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LELAP # 02006

Pace Analytical®
New Orleans Laboratory

Report of Laboratory Analysis

Project Number: 2067456

ACCREDITED IN ACCORDANCE WITH nelac

3/23/2007 12:43:39

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Sample Cross Reference Report

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Project: MS BLUFFS (VICKSBURG,MS)

Project No.: 2067456

Sample ID	Lab ID	Matrix	Collection Date/Time		Received Date/Time	
T-608 (030907)	20506605	Other	03/09/2007	09:27	03/09/2007	16:35
T-225&N (030907)	20506606	Water	03/09/2007	09:55	03/09/2007	16:35
T-23C (030907)	20506607	Water	03/09/2007	10:17	03/09/2007	16:35
T-26 (030907)	20506608	Water	03/09/2007	10:30	03/09/2007	16:35
T-25 (030907)	20506609	Water	03/09/2007	13:05	03/09/2007	16:35
V-76 (030907)	20506610	Water	03/09/2007	11:10	03/09/2007	16:35
NORTH-BETZ-COMP-01 (030907)	20506611	Water	03/09/2007	11:40	03/09/2007	16:35

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
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Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health .Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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Project Narrative

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: **2067456**

Sample Receipt Condition:

All samples were received in accordance with EPA protocol.

Holding Times:

All holding times were met.

Blanks:

All blank results were below reporting limits.

Laboratory Control Samples:

All LCS recoveries were within QC limits

Matrix Spikes and Duplicates:

MS or MSD recoveries outside of QC limits are qualified in the Report of Quality Control section.

Surrogates:

Surrogate recoveries outside of QC limits are qualified in the surrogate results section.

Regulatory, Permit or Client Specified Limits:

26 results were found that exceeded regulatory, permit or client specified limits.

New Orleans Laboratory Certifications
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Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: T-608 (030907) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067456 **Sample Qu:**

Lab ID: 20506605 (TCLP) **Matrix:** Other **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83464

Method: 8260 VOAs TCLP **Units:** mg/L **Target List:** 8260_LL20

Collected: 03/09/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/15/07 **Analyzed:** 03/15/07 14:35 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	ND		0.100	0.500
78-93-3	2-Butanone (MEK)	1	ND	A11	0.200	200.
56-23-5	Carbon tetrachloride	1	ND		0.100	0.500
108-90-7	Chlorobenzene	1	ND		0.100	100.
67-66-3	Chloroform	1	ND		0.100	6.00
107-06-2	1,2-Dichloroethane	1	ND		0.100	0.500
75-35-4	1,1-Dichloroethene	1	ND		0.100	0.700
127-18-4	Tetrachloroethene	1	ND		0.100	0.700
79-01-6	Trichloroethene	1	ND		0.100	0.500
75-01-4	Vinyl chloride	1	ND		0.100	0.200

10 compound(s) reported

3/23/2007 12:44:12

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit denotes an actual regulatory limit or a client-requested notification limit.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Arkansas Dept. of Environmental Quality - 88-0681
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New Orleans Laboratory

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: T-608 (030907) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067456 **Sample Qu:**

Lab ID: 20506605 (TCLP) **Matrix:** Other **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83462

Method: 8270 SVOAs TCLP **Units:** mg/L **Target List:** 8270 LL20

Collected: 03/09/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/15/07 **Analyzed:** 03/16/07 19:32 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
106-46-7	1,4-Dichlorobenzene	1	ND		0.100	7.50
121-14-2	2,4-Dinitrotoluene	1	ND		0.100	0.130
87-68-3	Hexachloro-1,3-butadiene	1	ND		0.100	0.500
118-74-1	Hexachlorobenzene	1	ND		0.100	0.130
67-72-1	Hexachloroethane	1	ND		0.100	3.00
95-48-7	2-Methylphenol (o-Cresol)	1	ND		0.100	200.
108-39-4	3-Methylphenol (m-Cresol)	1	ND	A7	0.100	200.
106-44-5	4-Methylphenol (p-Cresol)	1	ND	A7	0.100	200.
98-95-3	Nitrobenzene	1	ND		0.100	2.00
87-86-5	Pentachlorophenol	1	ND		0.250	100.
110-86-1	Pyridine	1	ND		0.100	5.00
95-95-4	2,4,5-Trichlorophenol	1	ND		0.250	400.
88-06-2	2,4,6-Trichlorophenol	1	ND		0.100	2.00

13 compound(s) reported

3/23/2007 12:44:12

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
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New Orleans Laboratory

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: T-225&N (030907) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067456 **Sample Qu:**

Lab ID: 20506606 (TCLP) **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83464

Method: 8260 VOAs TCLP **Units:** mg/L **Target List:** 8260_LL20

Collected: 03/09/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/15/07 **Analyzed:** 03/15/07 14:54 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	ND		0.100	0.500
78-93-3	2-Butanone (MEK)	1	ND	A11	0.200	200.
56-23-5	Carbon tetrachloride	1	ND		0.100	0.500
108-90-7	Chlorobenzene	1	ND		0.100	100.
67-66-3	Chloroform	1	ND		0.100	6.00
107-06-2	1,2-Dichloroethane	1	ND		0.100	0.500
75-35-4	1,1-Dichloroethene	1	ND		0.100	0.700
127-18-4	Tetrachloroethene	1	ND		0.100	0.700
79-01-6	Trichloroethene	1	ND		0.100	0.500
75-01-4	Vinyl chloride	1	ND		0.100	0.200

10 compound(s) reported

3/23/2007 12:44:13

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
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Pace Analytical
New Orleans Laboratory

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: T-225&N (030907) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067456 **Sample Qu:**

Lab ID: 20506606 (TCLP) **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83642

Method: 8270 SVOAs TCLP **Units:** mg/L **Target List:** 8270 LL20

Collected: 03/09/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/20/07 **Analyzed:** 03/21/07 17:28 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
106-46-7	1,4-Dichlorobenzene	1	ND	M1	0.100	7.50
121-14-2	2,4-Dinitrotoluene	1	ND	M1	0.100	0.130
87-68-3	Hexachloro-1,3-butadiene	1	ND	M1	0.100	0.500
118-74-1	Hexachlorobenzene	1	ND	M1	0.100	0.130
67-72-1	Hexachloroethane	1	ND	M1	0.100	3.00
95-48-7	2-Methylphenol (o-Cresol)	1	ND	M1	0.100	200.
108-39-4	3-Methylphenol (m-Cresol)	1	ND	M1	0.100	200.
106-44-5	4-Methylphenol (p-Cresol)	1	ND	M1	0.100	200.
98-95-3	Nitrobenzene	1	ND	M1	0.100	2.00
87-86-5	Pentachlorophenol	1	ND	M1	0.250	100.
110-86-1	Pyridine	1	ND	M1	0.100	5.00
95-95-4	2,4,5-Trichlorophenol	1	ND	M1	0.250	400.
88-06-2	2,4,6-Trichlorophenol	1	ND	M1	0.100	2.00

13 compound(s) reported

3/23/2007 12:44:13

ND denotes Not Detected at or above the adjusted reporting limit.
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New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Pace Analytical® New Orleans Laboratory

Client: Arcadis Geraghty & Miller

Client ID: T-23C (030907) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067456 **Sample Qu:**

Lab ID: 20506607 (TCLP) **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83464

Method: 8260 VOAs TCLP **Units:** mg/L **Target List:** 8260_LL20

Collected: 03/09/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/15/07 **Analyzed:** 03/15/07 15:52 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	ND		0.100	0.500
78-93-3	2-Butanone (MEK)	1	ND	A11	0.200	200.
56-23-5	Carbon tetrachloride	1	ND		0.100	0.500
108-90-7	Chlorobenzene	1	ND		0.100	100.
67-66-3	Chloroform	1	0.216		0.100	6.00
107-06-2	1,2-Dichloroethane	1	ND		0.100	0.500
75-35-4	1,1-Dichloroethene	1	ND		0.100	0.700
127-18-4	Tetrachloroethene	1	ND		0.100	0.700
79-01-6	Trichloroethene	1	ND		0.100	0.500
75-01-4	Vinyl chloride	1	ND		0.100	0.200

10 compound(s) reported

3/23/2007 12:44:13

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: T-23C (030907)
Site: None
Project: MS BLUFFS (VICKSBURG,MS)
Project No.: 2067456
Sample Qu:
Lab ID: 20506607 (TCLP)
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: TCLP
Batch: 83642
Method: 8270 SVOAs TCLP
Units: mg/L
Target List: 8270_LL20
Collected: 03/09/07
Received: 03/09/07
Prep Factor: 1
Prepared: 03/20/07
Analyzed: 03/21/07 21:59 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
106-46-7	1,4-Dichlorobenzene	1	ND		0.100	7.50
121-14-2	2,4-Dinitrotoluene	1	ND		0.100	0.130
87-68-3	Hexachloro-1,3-butadiene	1	ND		0.100	0.500
118-74-1	Hexachlorobenzene	1	ND		0.100	0.130
67-72-1	Hexachloroethane	1	ND		0.100	3.00
95-48-7	2-Methylphenol (o-Cresol)	1	ND		0.100	200.
108-39-4	3-Methylphenol (m-Cresol)	1	ND	A7	0.100	200.
106-44-5	4-Methylphenol (p-Cresol)	1	ND	A7	0.100	200.
98-95-3	Nitrobenzene	1	ND		0.100	2.00
87-86-5	Pentachlorophenol	1	ND		0.250	100.
110-86-1	Pyridine	1	ND		0.100	5.00
95-95-4	2,4,5-Trichlorophenol	1	ND		0.250	400.
88-06-2	2,4,6-Trichlorophenol	1	ND		0.100	2.00

13 compound(s) reported

3/23/2007 12:44:13

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: T-26 (030907) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067456 **Sample Qu:**

Lab ID: 20506608 (TCLP) **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83464

Method: 8260 VOAs TCLP **Units:** mg/L **Target List:** 8260_LL20

Collected: 03/09/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/15/07 **Analyzed:** 03/15/07 16:11 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	ND		0.100	0.500
78-93-3	2-Butanone (MEK)	1	ND	A11	0.200	200.
56-23-5	Carbon tetrachloride	1	ND		0.100	0.500
108-90-7	Chlorobenzene	1	ND		0.100	100.
67-66-3	Chloroform	1	0.231		0.100	6.00
107-06-2	1,2-Dichloroethane	1	ND		0.100	0.500
75-35-4	1,1-Dichloroethene	1	ND		0.100	0.700
127-18-4	Tetrachloroethene	1	ND		0.100	0.700
79-01-6	Trichloroethene	1	ND		0.100	0.500
75-01-4	Vinyl chloride	1	ND		0.100	0.200

10 compound(s) reported

3/23/2007 12:44:13

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: T-26 (030907)
Site: None
Project: MS BLUFFS (VICKSBURG,MS)
Project No.: 2067456
Sample Qu:
Lab ID: 20506608 (TCLP)
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: TCLP
Batch: 83642
Method: 8270 SVOAs TCLP
Units: mg/L
Target List: 8270_LL20
Collected: 03/09/07
Received: 03/09/07
Prep Factor: 1
Prepared: 03/20/07
Analyzed: 03/21/07 17:54 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
106-46-7	1,4-Dichlorobenzene	1	ND	M1	0.100	7.50
121-14-2	2,4-Dinitrotoluene	1	ND	M1	0.100	0.130
87-68-3	Hexachloro-1,3-butadiene	1	ND	M1	0.100	0.500
118-74-1	Hexachlorobenzene	1	ND	M1	0.100	0.130
67-72-1	Hexachloroethane	1	ND	M1	0.100	3.00
95-48-7	2-Methylphenol (o-Cresol)	1	ND	M1	0.100	200.
108-39-4	3-Methylphenol (m-Cresol)	1	ND	M1	0.100	200.
106-44-5	4-Methylphenol (p-Cresol)	1	ND	M1	0.100	200.
98-95-3	Nitrobenzene	1	ND	M1	0.100	2.00
87-86-5	Pentachlorophenol	1	ND	M1	0.250	100.
110-86-1	Pyridine	1	ND	M1	0.100	5.00
95-95-4	2,4,5-Trichlorophenol	1	ND	M1	0.250	400.
88-06-2	2,4,6-Trichlorophenol	1	ND	M1	0.100	2.00

13 compound(s) reported

3/23/2007 12:44:13

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: T-25 (030907)
Site: None
Project: MS BLUFFS (VICKSBURG,MS)
Project No.: 2067456
Sample Qu:
Lab ID: 20506609 (TCLP)
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: TCLP
Batch: 83464
Method: 8260 VOAs TCLP
Units: mg/L
Target List: 8260_LL20
Collected: 03/09/07
Received: 03/09/07
Prep Factor: 1
Prepared: 03/15/07
Analyzed: 03/15/07 16:30 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	ND		0.100	0.500
78-93-3	2-Butanone (MEK)	1	ND	A11	0.200	200.
56-23-5	Carbon tetrachloride	1	ND		0.100	0.500
108-90-7	Chlorobenzene	1	ND		0.100	100.
67-66-3	Chloroform	1	0.157		0.100	6.00
107-06-2	1,2-Dichloroethane	1	ND		0.100	0.500
75-35-4	1,1-Dichloroethene	1	ND		0.100	0.700
127-18-4	Tetrachloroethene	1	ND		0.100	0.700
79-01-6	Trichloroethene	1	ND		0.100	0.500
75-01-4	Vinyl chloride	1	ND		0.100	0.200

10 compound(s) reported

3/23/2007 12:44:13

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: T-25 (030907)
Site: None
Project: MS BLUFFS (VICKSBURG,MS)
Project No.: 2067456
Sample Qu:
Lab ID: 20506609 (TCLP)
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: TCLP
Batch: 83642
Method: 8270 SVOAs TCLP
Units: mg/L
Target List: 8270_LL20
Collected: 03/09/07
Received: 03/09/07
Prep Factor: 1
Prepared: 03/20/07
Analyzed: 03/21/07 18:20 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
106-46-7	1,4-Dichlorobenzene	1	ND	M1	0.100	7.50
121-14-2	2,4-Dinitrotoluene	1	ND	M1	0.100	0.130
87-68-3	Hexachloro-1,3-butadiene	1	ND	M1	0.100	0.500
118-74-1	Hexachlorobenzene	1	ND	M1	0.100	0.130
67-72-1	Hexachloroethane	1	ND	M1	0.100	3.00
95-48-7	2-Methylphenol (o-Cresol)	1	ND	M1	0.100	200.
108-39-4	3-Methylphenol (m-Cresol)	1	ND	M1	0.100	200.
106-44-5	4-Methylphenol (p-Cresol)	1	ND	M1	0.100	200.
98-95-3	Nitrobenzene	1	ND	M1	0.100	2.00
87-86-5	Pentachlorophenol	1	ND	M1	0.250	100.
110-86-1	Pyridine	1	ND	M1	0.100	5.00
95-95-4	2,4,5-Trichlorophenol	1	ND	M1	0.250	400.
88-06-2	2,4,6-Trichlorophenol	1	0.120	M1	0.100	2.00

13 compound(s) reported

3/23/2007 12:44:13

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: V-76 (030907)
Site: None
Project: MS BLUFFS (VICKSBURG,MS)
Project No.: 2067456
Sample Qu:
Lab ID: 20506610 (TCLP)
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: TCLP
Batch: 83464
Method: 8260 VOAs TCLP
Units: mg/L
Target List: 8260_LL20
Collected: 03/09/07
Received: 03/09/07
Prep Factor: 1
Prepared: 03/15/07
Analyzed: 03/15/07 16:49 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	ND		0.100	0.500
78-93-3	2-Butanone (MEK)	1	ND	A11	0.200	200.
56-23-5	Carbon tetrachloride	1	ND		0.100	0.500
108-90-7	Chlorobenzene	1	ND		0.100	100.
67-66-3	Chloroform	1	ND		0.100	6.00
107-06-2	1,2-Dichloroethane	1	ND		0.100	0.500
75-35-4	1,1-Dichloroethene	1	ND		0.100	0.700
127-18-4	Tetrachloroethene	1	ND		0.100	0.700
79-01-6	Trichloroethene	1	ND		0.100	0.500
75-01-4	Vinyl chloride	1	ND		0.100	0.200

10 compound(s) reported

3/23/2007 12:44:14

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Client: Arcadis Geraghty & Miller

Client ID: V-76 (030907)
Site: None
Project: MS BLUFFS (VICKSBURG,MS)
Project No.: 2067456
Sample Qu:
Lab ID: 20506610 (TCLP)
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: TCLP
Batch: 83642
Method: 8270 SVOAs TCLP
Units: mg/L
Target List: 8270 LL20
Collected: 03/09/07
Received: 03/09/07
Prep Factor: 1
Prepared: 03/20/07
Analyzed: 03/21/07 16:34 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
106-46-7	1,4-Dichlorobenzene	10	ND	D2,M1,M2	1.00	7.50
121-14-2	2,4-Dinitrotoluene	10	ND	D2,M1,M2	1.00	0.130
87-68-3	Hexachloro-1,3-butadiene	10	ND	D2,M1,M2	1.00	0.500
118-74-1	Hexachlorobenzene	10	ND	D2,M1,M2	1.00	0.130
67-72-1	Hexachloroethane	10	ND	D2,M1,M2	1.00	3.00
95-48-7	2-Methylphenol (o-Cresol)	10	ND	D2,M1,M2	1.00	200.
108-39-4	3-Methylphenol (m-Cresol)	10	ND	D2,M1,M2	1.00	200.
106-44-5	4-Methylphenol (p-Cresol)	10	ND	D2,M1,M2	1.00	200.
98-95-3	Nitrobenzene	10	ND	D2,M1,M2	1.00	2.00
87-86-5	Pentachlorophenol	10	ND	D2,M1,M2	2.50	100.
110-86-1	Pyridine	10	ND	D2,M1,M2	1.00	5.00
95-95-4	2,4,5-Trichlorophenol	10	ND	D2,M1,M2	2.50	400.
88-06-2	2,4,6-Trichlorophenol	10	ND	D2,M1,M2	1.00	2.00

13 compound(s) reported

3/23/2007 12:44:14

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: NORTH-BETZ-COMP-01 (030907)
Site: None
Project: MS BLUFFS (VICKSBURG,MS)
Project No.: 2067456
Sample Qu:
Lab ID: 20506611 (TCLP)
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: TCLP
Batch: 83464
Method: 8260 VOAs TCLP
Units: mg/L
Target List: 8260_LL20
Collected: 03/09/07
Received: 03/09/07
Prep Factor: 1
Prepared: 03/16/07
Analyzed: 03/16/07 17:48 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	10	ND	D5	1.00	0.500
78-93-3	2-Butanone (MEK)	10	ND	D5	2.00	200.
56-23-5	Carbon tetrachloride	10	ND	D5	1.00	0.500
108-90-7	Chlorobenzene	10	ND	D5	1.00	100.
67-66-3	Chloroform	10	ND	D5	1.00	6.00
107-06-2	1,2-Dichloroethane	10	ND	D5	1.00	0.500
75-35-4	1,1-Dichloroethene	10	ND	D5	1.00	0.700
127-18-4	Tetrachloroethene	10	ND	D5	1.00	0.700
79-01-6	Trichloroethene	10	ND	D5	1.00	0.500
75-01-4	Vinyl chloride	10	ND	D5	1.00	0.200

10 compound(s) reported

3/23/2007 12:44:14

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: NORTH-BETZ-COMP-01 (030907) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067456 **Sample Qu:**

Lab ID: 20506611 (TCLP) **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83642

Method: 8270 SVOAs TCLP **Units:** mg/L **Target List:** 8270_LL20

Collected: 03/09/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/20/07 **Analyzed:** 03/21/07 18:47 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
106-46-7	1,4-Dichlorobenzene	1	ND	M1,P2	0.500	7.50
121-14-2	2,4-Dinitrotoluene	1	ND	M1,P2	0.500	0.130
87-68-3	Hexachloro-1,3-butadiene	1	ND	M1,P2	0.500	0.500
118-74-1	Hexachlorobenzene	1	ND	M1,P2	0.500	0.130
67-72-1	Hexachloroethane	1	ND	M1,P2	0.500	3.00
95-48-7	2-Methylphenol (o-Cresol)	1	ND	M1,P2	0.500	200.
108-39-4	3-Methylphenol (m-Cresol)	1	ND	M1,P2	0.500	200.
106-44-5	4-Methylphenol (p-Cresol)	1	ND	M1,P2	0.500	200.
98-95-3	Nitrobenzene	1	ND	M1,P2	0.500	2.00
87-86-5	Pentachlorophenol	1	ND	M1,P2	1.25	100.
110-86-1	Pyridine	1	ND	M1,P2	0.500	5.00
95-95-4	2,4,5-Trichlorophenol	1	ND	M1,P2	1.25	400.
88-06-2	2,4,6-Trichlorophenol	1	ND	M1,P2	0.500	2.00

13 compound(s) reported

3/23/2007 12:44:14

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: T-608 (030907) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067456 **Sample Qu:**

Lab ID: 20506605 (TCLP) **Matrix:** Other **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83515

Method: 8081 Pests TCLP **Units:** mg/L **Target List:** 8081_LL20

Collected: 03/09/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/16/07 **Analyzed:** 03/20/07 20:46 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
58-89-9	gamma-BHC (Lindane)	1	ND		0.000500	0.400
57-74-9	Chlordane	1	ND		0.00100	0.0300
72-20-8	Endrin	1	ND		0.00100	0.0200
76-44-8	Heptachlor	1	ND		0.000500	0.00800
1024-57-3	Heptachlor epoxide	1	ND		0.000500	0.00800
72-43-5	Methoxychlor	1	ND		0.00500	10.0
8001-35-2	Toxaphene	1	ND		0.0200	0.500

7 compound(s) reported

3/23/2007 12:44:17

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: T-608 (030907) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067456 **Sample Qu:**

Lab ID: 20506605 (TCLP) **Matrix:** Other **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83589

Method: 8151 Herbs TCLP **Units:** mg/L **Target List:** 8151_LL20

Collected: 03/09/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/20/07 **Analyzed:** 03/21/07 18:48 SRA (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
94-75-7	2,4-D	1	ND		0.0200	10.0
93-72-1	2,4,5-TP (Silvex)	1	ND		0.00500	1.00

2 compound(s) reported

3/23/2007 12:44:17

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: T-225&N (030907)
Site: None
Project: MS BLUFFS (VICKSBURG,MS)
Project No.: 2067456
Sample Qu:
Lab ID: 20506606 (TCLP)
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: TCLP
Batch: 83515
Method: 8081 Pests TCLP
Units: mg/L
Target List: 8081_LL20
Collected: 03/09/07
Received: 03/09/07
Prep Factor: 1
Prepared: 03/16/07
Analyzed: 03/20/07 21:36 SLE (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
58-89-9	gamma-BHC (Lindane)	1	ND		0.000500	0.400
57-74-9	Chlordane	1	ND		0.00100	0.0300
72-20-8	Endrin	1	ND		0.00100	0.0200
76-44-8	Heptachlor	1	ND		0.000500	0.00800
1024-57-3	Heptachlor epoxide	1	ND		0.000500	0.00800
72-43-5	Methoxychlor	1	ND		0.00500	10.0
8001-35-2	Toxaphene	1	ND		0.0200	0.500

7 compound(s) reported

3/23/2007 12:44:17

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Client: Arcadis Geraghty & Miller

Client ID: T-225&N (030907)
Site: None
Project: MS BLUFFS (VICKSBURG,MS)
Project No.: 2067456
Sample Qu:
Lab ID: 20506606 (TCLP)
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: TCLP
Batch: 83589
Method: 8151 Herbs TCLP
Units: mg/L
Target List: 8151 LL20
Collected: 03/09/07
Received: 03/09/07
Prep Factor: 1
Prepared: 03/20/07
Analyzed: 03/22/07 18:38 SRA (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
94-75-7	2,4-D	5	0.162	D1	0.100	10.0
93-72-1	2,4,5-TP (Silvex)	5	ND	D2	0.0250	1.00

2 compound(s) reported

3/23/2007 12:44:17

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: T-23C (030907)
Site: None
Project: MS BLUFFS (VICKSBURG,MS)
Project No.: 2067456
Sample Qu:
Lab ID: 20506607 (TCLP)
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: TCLP
Batch: 83515
Method: 8081 Pests TCLP
Units: mg/L
Target List: 8081_LL20
Collected: 03/09/07
Received: 03/09/07
Prep Factor: 1
Prepared: 03/16/07
Analyzed: 03/20/07 21:52 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
58-89-9	gamma-BHC (Lindane)	1	ND		0.000500	0.400
57-74-9	Chlordane	1	ND		0.00100	0.0300
72-20-8	Endrin	1	ND		0.00100	0.0200
76-44-8	Heptachlor	1	ND		0.000500	0.00800
1024-57-3	Heptachlor epoxide	1	ND		0.000500	0.00800
72-43-5	Methoxychlor	1	ND		0.00500	10.0
8001-35-2	Toxaphene	1	ND		0.0200	0.500

7 compound(s) reported

3/23/2007 12:44:17

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: T-23C (030907)
Site: None
Project: MS BLUFFS (VICKSBURG,MS)
Project No.: 2067456
Sample Qu:
Lab ID: 20506607 (TCLP)
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: TCLP
Batch: 83589
Method: 8151 Herbs TCLP
Units: mg/L
Target List: 8151_LL20
Collected: 03/09/07
Received: 03/09/07
Prep Factor: 1
Prepared: 03/20/07
Analyzed: 03/21/07 20:38 SRA (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
94-75-7	2,4-D	1	0.299		0.0200	10.0
93-72-1	2,4,5-TP (Silvex)	1	0.0109		0.00500	1.00

2 compound(s) reported

3/23/2007 12:44:17

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: T-26 (030907) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067456 **Sample Qu:**

Lab ID: 20506608 (TCLP) **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83515

Method: 8081 Pests TCLP **Units:** mg/L **Target List:** 8081 LL20

Collected: 03/09/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/16/07 **Analyzed:** 03/20/07 22:09 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
58-89-9	gamma-BHC (Lindane)	1	ND		0.000500	0.400
57-74-9	Chlordane	1	ND		0.00100	0.0300
72-20-8	Endrin	1	ND		0.00100	0.0200
76-44-8	Heptachlor	1	ND		0.000500	0.00800
1024-57-3	Heptachlor epoxide	1	ND		0.000500	0.00800
72-43-5	Methoxychlor	1	ND		0.00500	10.0
8001-35-2	Toxaphene	1	ND		0.0200	0.500

7 compound(s) reported

3/23/2007 12:44:17

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: T-26 (030907) | **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) | **Project No.:** 2067456 | **Sample Qu:**

Lab ID: 20506608 (TCLP) | **Matrix:** Water | **% Moisture:** n/a

Description: None | **Prep Level:** TCLP | **Batch:** 83589

Method: 8151 Herbs TCLP | **Units:** mg/L | **Target List:** 8151 LL20

Collected: 03/09/07 | **Received:** 03/09/07

Prep Factor: 1 | **Prepared:** 03/20/07 | **Analyzed:** 03/22/07 09:31 SRA (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
94-75-7	2,4-D	1	0.155	Ph	0.0200	10.0
93-72-1	2,4,5-TP (Silvex)	1	ND		0.00500	1.00

2 compound(s) reported

3/23/2007 12:44:18

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: T-25 (030907) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067456 **Sample Qu:**

Lab ID: 20506609 (TCLP) **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83515

Method: 8081 Pests TCLP **Units:** mg/L **Target List:** 8081_LL20

Collected: 03/09/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/16/07 **Analyzed:** 03/20/07 22:25 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
58-89-9	gamma-BHC (Lindane)	1	ND		0.000500	0.400
57-74-9	Chlordane	1	ND		0.00100	0.0300
72-20-8	Endrin	1	ND		0.00100	0.0200
76-44-8	Heptachlor	1	ND		0.000500	0.00800
1024-57-3	Heptachlor epoxide	1	ND		0.000500	0.00800
72-43-5	Methoxychlor	1	ND		0.00500	10.0
8001-35-2	Toxaphene	1	ND		0.0200	0.500

7 compound(s) reported

3/23/2007 12:44:18

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: T-25 (030907)
Site: None
Project: MS BLUFFS (VICKSBURG,MS)
Project No.: 2067456
Sample Qu:
Lab ID: 20506609 (TCLP)
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: TCLP
Batch: 83589
Method: 8151 Herbs TCLP
Units: mg/L
Target List: 8151 LL20
Collected: 03/09/07
Received: 03/09/07
Prep Factor: 1
Prepared: 03/20/07
Analyzed: 03/22/07 09:58 SRA (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
94-75-7	2,4-D	1	ND		0.0200	10.0
93-72-1	2,4,5-TP (Silvex)	1	ND		0.00500	1.00

2 compound(s) reported

3/23/2007 12:44:18

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Kansas Dept. of Health Environment - E-10266
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Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: V-76 (030907)
Site: None
Project: MS BLUFFS (VICKSBURG,MS)
Project No.: 2067456
Sample Qu:
Lab ID: 20506610 (TCLP)
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: TCLP
Batch: 83515
Method: 8081 Pests TCLP
Units: mg/L
Target List: 8081 LL20
Collected: 03/09/07
Received: 03/09/07
Prep Factor: 1
Prepared: 03/16/07
Analyzed: 03/20/07 22:42 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
58-89-9	gamma-BHC (Lindane)	100	ND	D2	0.0500	0.400
57-74-9	Chlordane	100	ND	D2	0.100	0.0300
72-20-8	Endrin	100	ND	D2	0.100	0.0200
76-44-8	Heptachlor	100	ND	D2	0.0500	0.00800
1024-57-3	Heptachlor epoxide	100	ND	D2	0.0500	0.00800
72-43-5	Methoxychlor	100	ND	D2	0.500	10.0
8001-35-2	Toxaphene	100	ND	D2	2.00	0.500

7 compound(s) reported

3/23/2007 12:44:18

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: V-76 (030907)
Site: None
Project: MS BLUFFS (VICKSBURG,MS)
Project No.: 2067456
Sample Qu:
Lab ID: 20506610 (TCLP)
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: TCLP
Batch: 83589
Method: 8151 Herbs TCLP
Units: mg/L
Target List: 8151 LL20
Collected: 03/09/07
Received: 03/09/07
Prep Factor: 1
Prepared: 03/20/07
Analyzed: 03/22/07 15:27 SRA (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
94-75-7	2,4-D	100	ND	D2	2.00	10.0
93-72-1	2,4,5-TP (Silvex)	100	ND	D2	0.500	1.00

2 compound(s) reported

3/23/2007 12:44:18

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: NORTH-BETZ-COMP-01 (030907) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067456 **Sample Qu:**

Lab ID: 20506611 (TCLP) **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83515

Method: 8081 Pests TCLP **Units:** mg/L **Target List:** 8081_LL20

Collected: 03/09/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/16/07 **Analyzed:** 03/20/07 22:58 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
58-89-9	gamma-BHC (Lindane)	1	ND		0.000500	0.400
57-74-9	Chlordane	1	ND		0.00100	0.0300
72-20-8	Endrin	1	ND		0.00100	0.0200
76-44-8	Heptachlor	1	ND		0.000500	0.00800
1024-57-3	Heptachlor epoxide	1	0.00130		0.000500	0.00800
72-43-5	Methoxychlor	1	ND		0.00500	10.0
8001-35-2	Toxaphene	1	ND		0.0200	0.500

7 compound(s) reported

3/23/2007 12:44:18

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DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
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For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: NORTH-BETZ-COMP-01 (030907) **Site:** None

Project: MS BLUFFS (VICKSBURG,MS) **Project No.:** 2067456 **Sample Qu:**

Lab ID: 20506611 (TCLP) **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 83589

Method: 8151 Herbs TCLP **Units:** mg/L **Target List:** 8151_LL20

Collected: 03/09/07 **Received:** 03/09/07

Prep Factor: 1 **Prepared:** 03/20/07 **Analyzed:** 03/22/07 15:54 SRA (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
94-75-7	2,4-D	100	19.4	D2,P	2.00	10.0
93-72-1	2,4,5-TP (Silvex)	100	ND	D2	0.500	1.00

2 compound(s) reported

3/23/2007 12:44:18

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LELAP # 02006

Client ID: T-608 (030907)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS (VICKSBURG,MS)
Site: None
Lab ID: 20506605 (TCLP)
Project No.: 2067456
Description: None
Matrix: Other
%Moisture: n/a
Collected: 03/09/07
Received: 03/09/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 19:37	KJR (1)	5.00
Barium	EPA 6010 (T	83448	10	ND	D2	mg/L	20.0	15-Mar-07	20-Mar-07 19:37	KJR (1)	100.
Cadmium	EPA 6010 (T	83448	10	ND	D2	mg/L	1.00	15-Mar-07	20-Mar-07 19:37	KJR (1)	1.00
Chromium	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 19:37	KJR (1)	5.00
Lead	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 19:37	KJR (1)	5.00
Mercury	EPA 7470 (T	83449	1	ND		mg/L	0.000200	15-Mar-07	15-Mar-07 17:04	MHB1 (1)	0.200
Selenium	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 19:37	KJR (1)	1.00
Silver	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 19:37	KJR (1)	5.00

8 parameter(s) reported

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DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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LELAP # 02006

Client ID: T-225&N (030907)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS (VICKSBURG,MS)
Site: None
Lab ID: 20506606 (TCLP)
Project No.: 2067456
Description: None
Matrix: Water **%Moisture:** n/a
Collected: 03/09/07 **Received:** 03/09/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 19:42	KJR (1)	5.00
Barium	EPA 6010 (T	83448	10	ND	D2	mg/L	20.0	15-Mar-07	20-Mar-07 19:42	KJR (1)	100.
Cadmium	EPA 6010 (T	83448	10	ND	D2	mg/L	1.00	15-Mar-07	20-Mar-07 19:42	KJR (1)	1.00
Chromium	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 19:42	KJR (1)	5.00
Lead	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 19:42	KJR (1)	5.00
Mercury	EPA 7470 (T	83449	1	ND		mg/L	0.000200	15-Mar-07	15-Mar-07 17:10	MHB1 (1)	0.200
Selenium	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 19:42	KJR (1)	1.00
Silver	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 19:42	KJR (1)	5.00

8 parameter(s) reported

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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
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(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Client ID: T-23C (030907)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS (VICKSBURG,MS)
Site: None
Lab ID: 20506607 (TCLP)
Project No.: 2067456
Description: None
Matrix: Water **%Moisture:** n/a
Collected: 03/09/07 **Received:** 03/09/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 19:48	KJR (1)	5.00
Barium	EPA 6010 (T	83448	10	ND	D2	mg/L	20.0	15-Mar-07	20-Mar-07 19:48	KJR (1)	100.
Cadmium	EPA 6010 (T	83448	10	ND	D2	mg/L	1.00	15-Mar-07	20-Mar-07 19:48	KJR (1)	1.00
Chromium	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 19:48	KJR (1)	5.00
Lead	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 19:48	KJR (1)	5.00
Mercury	EPA 7470 (T	83449	1	0.000453		mg/L	0.000200	15-Mar-07	15-Mar-07 17:12	MHB1 (1)	0.200
Selenium	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 19:48	KJR (1)	1.00
Silver	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 19:48	KJR (1)	5.00

8 parameter(s) reported

3/23/2007 12:44:21

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(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Client ID: T-26 (030907)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS (VICKSBURG,MS)
Site: None
Lab ID: 20506608 (TCLP)
Project No.: 2067456
Description: None
Matrix: Water
%Moisture: n/a
Collected: 03/09/07
Received: 03/09/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 19:53	KJR (1)	5.00
Barium	EPA 6010 (T	83448	10	ND	D2	mg/L	20.0	15-Mar-07	20-Mar-07 19:53	KJR (1)	100.
Cadmium	EPA 6010 (T	83448	10	ND	D2	mg/L	1.00	15-Mar-07	20-Mar-07 19:53	KJR (1)	1.00
Chromium	EPA 6010 (T	83448	10	4.92	D2	mg/L	2.00	15-Mar-07	20-Mar-07 19:53	KJR (1)	5.00
Lead	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 19:53	KJR (1)	5.00
Mercury	EPA 7470 (T	83449	1	0.000259		mg/L	0.000200	15-Mar-07	15-Mar-07 17:13	MHB1 (1)	0.200
Selenium	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 19:53	KJR (1)	1.00
Silver	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 19:53	KJR (1)	5.00

8 parameter(s) reported

3/23/2007 12:44:21

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Client ID: T-25 (030907)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS (VICKSBURG,MS)
Site: None
Lab ID: 20506609 (TCLP)
Project No.: 2067456
Description: None
Matrix: Water
%Moisture: n/a
Collected: 03/09/07
Received: 03/09/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 19:58	KJR (1)	5.00
Barium	EPA 6010 (T	83448	10	ND	D2	mg/L	20.0	15-Mar-07	20-Mar-07 19:58	KJR (1)	100.
Cadmium	EPA 6010 (T	83448	10	ND	D2	mg/L	1.00	15-Mar-07	20-Mar-07 19:58	KJR (1)	1.00
Chromium	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 19:58	KJR (1)	5.00
Lead	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 19:58	KJR (1)	5.00
Mercury	EPA 7470 (T	83449	1	ND		mg/L	0.000200	15-Mar-07	15-Mar-07 17:19	MHB1 (1)	0.200
Selenium	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 19:58	KJR (1)	1.00
Silver	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 19:58	KJR (1)	5.00

8 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: V-76 (030907)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS (VICKSBURG,MS)
Site: None
Lab ID: 20506610 (TCLP)
Project No.: 2067456
Description: None
Matrix: Water
%Moisture: n/a
Collected: 03/09/07
Received: 03/09/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 20:04	KJR (1)	5.00
Barium	EPA 6010 (T	83448	10	ND	D2	mg/L	20.0	15-Mar-07	20-Mar-07 20:04	KJR (1)	100.
Cadmium	EPA 6010 (T	83448	10	ND	D2	mg/L	1.00	15-Mar-07	20-Mar-07 20:04	KJR (1)	1.00
Chromium	EPA 6010 (T	83448	10	28.1	D2	mg/L	2.00	15-Mar-07	20-Mar-07 20:04	KJR (1)	5.00
Lead	EPA 6010 (T	83448	10	3.00	D2	mg/L	2.00	15-Mar-07	20-Mar-07 20:04	KJR (1)	5.00
Mercury	EPA 7470 (T	83449	1	0.000432		mg/L	0.000200	15-Mar-07	15-Mar-07 17:21	MHB1 (1)	0.200
Selenium	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 20:04	KJR (1)	1.00
Silver	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 20:04	KJR (1)	5.00

8 parameter(s) reported

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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/23/2007 12:44:21

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: NORTH-BETZ-COMP-01 (030907) **Client:** Arcadis Geraghty & Miller

Project: MS BLUFFS (VICKSBURG,MS) **Site:** None

Lab ID: 20506611 (TCLP) **Project No.:** 2067456

Description: None **Matrix:** Water **%Moisture:** n/a

Collected: 03/09/07 **Received:** 03/09/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010 (T	83448	10	2.71	D2	mg/L	2.00	15-Mar-07	20-Mar-07 20:21	KJR (1)	5.00
Barium	EPA 6010 (T	83448	10	ND	D2	mg/L	20.0	15-Mar-07	20-Mar-07 20:21	KJR (1)	100.
Cadmium	EPA 6010 (T	83448	10	ND	D2	mg/L	1.00	15-Mar-07	20-Mar-07 20:21	KJR (1)	1.00
Chromium	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 20:21	KJR (1)	5.00
Lead	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 20:21	KJR (1)	5.00
Mercury	EPA 7470 (T	83449	10	ND	D1	mg/L	0.0200	15-Mar-07	15-Mar-07 17:23	MHB1 (1)	0.200
Selenium	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 20:21	KJR (1)	1.00
Silver	EPA 6010 (T	83448	10	ND	D2	mg/L	2.00	15-Mar-07	20-Mar-07 20:21	KJR (1)	5.00

8 parameter(s) reported

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(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Phone: 504.469.0333
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LELAP # 02006

Client ID: T-608 (030907)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS (VICKSBURG,MS)
Site: None
Lab ID: 20506605
Project No.: 2067456
Description: None
Matrix: Other
%Moisture: n/a
Collected: 03/09/07
Received: 03/09/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
Cyanide, Reactive	SW-846 7.3.3.	83360	1	ND		mg/kg	25.0	20-Mar-07	20-Mar-07 16:17 TAE (1)	
Flash Point	EPA 1010	83456	1	>100		deg C		16-Mar-07	16-Mar-07 13:50 SMS2 (1)	
pH	EPA 9045	83358	1	5.35		Std. Units		13-Mar-07	13-Mar-07 15:00 SMS2 (1)	
Sulfide, Reactive	SW-846 7.3.4.	83359	1	ND		mg/kg	49.5	15-Mar-07	15-Mar-07 09:15 SMS2 (1)	

4 parameter(s) reported

3/23/2007 12:44:25

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Client ID: T-225&N (030907)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS (VICKSBURG,MS)
Site: None
Lab ID: 20506606
Project No.: 2067456
Description: None
Matrix: Water
%Moisture: n/a
Collected: 03/09/07
Received: 03/09/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Cyanide, Reactive	SW-846 7.3.3.	83360	1	ND		mg/kg	25.0	20-Mar-07	20-Mar-07 16:24	TAE (1)	
Flash Point	EPA 1010	83456	1	>100		deg C		16-Mar-07	16-Mar-07 13:50	SMS2 (1)	
pH	EPA 9040	83298	1	12.7		Std. Units		10-Mar-07	10-Mar-07 18:30	SMS2 (1)	
Sulfide, Reactive	SW-846 7.3.4.	83359	1	ND		mg/kg	49.9	15-Mar-07	15-Mar-07 09:15	SMS2 (1)	

4 parameter(s) reported

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DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Client ID: T-23C (030907)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS (VICKSBURG,MS)
Site: None
Lab ID: 20506607
Project No.: 2067456
Description: None
Matrix: Water
%Moisture: n/a
Collected: 03/09/07
Received: 03/09/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Cyanide, Reactive	SW-846 7.3.3.	83360	1	ND		mg/kg	25.0	20-Mar-07	20-Mar-07 16:24	TAE (1)	
Flash Point	EPA 1010	83456	1	>100		deg C		16-Mar-07	16-Mar-07 13:50	SMS2 (1)	
pH	EPA 9040	83298	1	12.7		Std. Units		10-Mar-07	10-Mar-07 18:30	SMS2 (1)	
Sulfide, Reactive	SW-846 7.3.4.	83359	1	ND		mg/kg	49.6	15-Mar-07	15-Mar-07 09:15	SMS2 (1)	

4 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
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Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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LELAP # 02006

Client ID: T-26 (030907)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS (VICKSBURG,MS)
Site: None
Lab ID: 20506608
Project No.: 2067456
Description: None
Matrix: Water
%Moisture: n/a
Collected: 03/09/07
Received: 03/09/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Cyanide, Reactive	SW-846 7.3.3.	83360	1	ND		mg/kg	25.0	20-Mar-07	20-Mar-07 16:24	TAE (1)	
Flash Point	EPA 1010	83456	1	>100		deg C		16-Mar-07	16-Mar-07 13:50	SMS2 (1)	
pH	EPA 9040	83298	1	12.8		Std. Units		10-Mar-07	10-Mar-07 18:30	SMS2 (1)	
Sulfide, Reactive	SW-846 7.3.4.	83359	1	ND		mg/kg	49.8	15-Mar-07	15-Mar-07 09:15	SMS2 (1)	

4 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
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Phone: 504.469.0333
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LELAP # 02006

Client ID: T-25 (030907)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS (VICKSBURG,MS)
Site: None
Lab ID: 20506609
Project No.: 2067456
Description: None
Matrix: Water
%Moisture: n/a
Collected: 03/09/07
Received: 03/09/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Cyanide, Reactive	SW-846 7.3.3.	83360	1	ND		mg/kg	25.0	20-Mar-07	20-Mar-07 16:24	TAE (1)	
Flash Point	EPA 1010	83456	1	>100		deg C		16-Mar-07	16-Mar-07 13:50	SMS2 (1)	
pH	EPA 9040	83298	1	11.0		Std. Units		10-Mar-07	10-Mar-07 18:30	SMS2 (1)	
Sulfide, Reactive	SW-846 7.3.4.	83359	1	ND		mg/kg	49.7	15-Mar-07	15-Mar-07 09:15	SMS2 (1)	

4 parameter(s) reported

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LELAP # 02006

Client ID: V-76 (030907)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS (VICKSBURG,MS)
Site: None
Lab ID: 20506610
Project No.: 2067456
Description: None
Matrix: Water
%Moisture: n/a
Collected: 03/09/07
Received: 03/09/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
Cyanide, Reactive	SW-846 7.3.3.	83360	1	ND		mg/kg	25.0	20-Mar-07	20-Mar-07 16:24 TAE (1)	
Flash Point	EPA 1010	83456	1		85	deg C		16-Mar-07	16-Mar-07 13:50 SMS2 (1)	
pH	EPA 9040	83298	1	0.580		Std. Units		10-Mar-07	10-Mar-07 18:30 SMS2 (1)	
Sulfide, Reactive	SW-846 7.3.4.	83359	1	ND		mg/kg	49.5	15-Mar-07	15-Mar-07 09:15 SMS2 (1)	

4 parameter(s) reported

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LELAP # 02006

Client ID: NORTH-BETZ-COMP-01 (030907)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS (VICKSBURG,MS)
Site: None
Lab ID: 20506611
Project No.: 2067456
Description: None
Matrix: Water
%Moisture: n/a
Collected: 03/09/07
Received: 03/09/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Cyanide, Reactive	SW-846 7.3.3.	83360	1	ND		mg/kg	25.0	20-Mar-07	20-Mar-07 16:24	TAE (1)	
Flash Point	EPA 1010	83456	1	>100		deg C		16-Mar-07	16-Mar-07 13:50	SMS2 (1)	
pH	EPA 9040	83298	1	13.0		Std. Units		10-Mar-07	10-Mar-07 18:30	SMS2 (1)	
Sulfide, Reactive	SW-846 7.3.4.	83359	1	ND		mg/kg	49.7	15-Mar-07	15-Mar-07 09:15	SMS2 (1)	

4 parameter(s) reported

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Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Method: EPA 8260 **Project:** 2067456 **LCS:** 20507508 3/15/2007 11:01:00 AM

Batch: 83464 **MS:** 20507509 3/15/2007 3:13:00 PM

Units: mg/L **Original for MS:** 20506606 Client Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Benzene	0.4	0.4374		109			0.4	0.00	0.4372	0.4314	109	108	1	70 - 135	60 - 144	20	
2-Butanone (MEK)	0.4	0.5242		131			0.4	0.00	0.5452	0.512	136	128	6	32 - 157	20 - 168	20	A11
Carbon tetrachloride	0.4	0.4256		106			0.4	0.00	0.4056	0.4124	101	103	2	50 - 166	44 - 170	20	
Chlorobenzene	0.4	0.399		100			0.4	0.00	0.4034	0.4022	101	101	0	73 - 129	67 - 134	20	
Chloroform	0.4	0.4606		115			0.4	0.00	0.4558	0.4452	114	111	2	71 - 133	64 - 140	20	
1,4-Dichlorobenzene	0.4	0.4052		101			0.4	0.00	0.4088	0.418	102	105	2	66 - 133	64 - 133	20	
1,2-Dichloroethane	0.4	0.479		120			0.4	0.00	0.4906	0.4776	123	119	3	53 - 164	51 - 161	20	
1,1-Dichloroethene	0.4	0.4054		101			0.4	0.00	0.4154	0.4206	104	105	1	51 - 143	44 - 152	20	
Hexachloro-1,3-butadiene	0.4	0.3756		94			0.4	0.00	0.347	0.3926	87	98	12	49 - 167	27 - 195	20	
Tetrachloroethene	0.4	0.4084		102			0.4	0.00	0.428	0.4066	107	102	5	42 - 156	39 - 151	20	
Trichloroethene	0.4	0.423		106			0.4	0.00	0.4034	0.3992	101	100	1	69 - 136	61 - 141	20	
Vinyl chloride	0.4	0.4282		107			0.4	0.00	0.3696	0.3874	92	97	5	40 - 146	28 - 161	20	

12 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Method: EPA 8270 **Project:** 2067456 **LCS:** 20507499 3/16/2007 6:10:00 PM

Batch: 83462 **MS:** 20507504 3/16/2007 6:37:00 PM

Units: mg/L **Original for MS:** 20506605 Client Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
1,4-Dichlorobenzene	0.5	0.2321		46			0.5	0.00	0.1899	0.1954	38	39	3	17 - 97	12 - 98	20	
2,4-Dinitrotoluene	0.5	0.3483		70			0.5	0.00	0.4742	0.3242	95	65	38 *	43 - 121	36 - 125	20	
Hexachloro-1,3-butadiene	0.5	0.1789		36			0.5	0.00	0.1368	0.1968	27	39	36 *	20 - 101	14 - 102	20	
Hexachlorobenzene	0.5	0.3416		68			0.5	0.00	0.3333	0.3229	67	65	3	44 - 119	32 - 119	20	
Hexachloroethane	0.5	0.1921		38			0.5	0.00	0.1547	0.1796	31	36	15	15 - 96	10 - 101	20	
2-Methylphenol (o-Cresol)	0.5	0.3672		73			0.5	0.00	0.3156	0.3592	63	72	13	32 - 115	27 - 118	20	
4-Methylphenol (p-Cresol)	0.5	0.3553		71			0.5	0.00	0.343	0.3396	69	68	1	33 - 116	27 - 119	20	A7
Nitrobenzene	0.5	0.3587		72			0.5	0.00	0.3369	0.3439	67	69	2	31 - 118	16 - 136	20	
Pentachlorophenol	0.5	0.3017		60			0.5	0.00	0.3985	0.3442	80	69	15	32 - 133	24 - 147	20	
Pyridine	0.5	0.2212		44			0.5	0.00	0.014	0.0677	3 *	14 *	131 *	40 - 120	40 - 120	20	Q1
2,4,5-Trichlorophenol	0.5	0.3611		72			0.5	0.00	0.4821	0.3356	96	67	36 *	41 - 120	35 - 122	20	
2,4,6-Trichlorophenol	0.5	0.3744		75			0.5	0.00	0.4724	0.3582	95	72	27 *	39 - 120	33 - 124	20	

12 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Phone: 504.469.0333
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LELAP # 02006

Method: EPA 8270 **Project:** 2067456 **LCS:** 20508396 3/21/2007 2:20:00 PM

Batch: 83642 **MS:**

Units: mg/L **Original for MS:**

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
1,4-Dichlorobenzene	0.5	0.2422		48										17 - 97	-		
2,4-Dinitrotoluene	0.5	0.4294		86										43 - 121	-		
Hexachloro-1,3-butadiene	0.5	0.2267		45										20 - 101	-		
Hexachlorobenzene	0.5	0.3312		66										44 - 119	-		
Hexachloroethane	0.5	0.2156		43										15 - 96	-		
2-Methylphenol (o-Cresol)	0.5	0.3441		69										32 - 115	-		
4-Methylphenol (p-Cresol)	0.5	0.339		68										33 - 116	-		A7
Nitrobenzene	0.5	0.3585		72										31 - 118	-		
Pentachlorophenol	0.5	0.2982		60										32 - 133	-		
Pyridine	0.5	0.2825		57										40 - 120	-		
2,4,5-Trichlorophenol	0.5	0.3707		74										41 - 120	-		
2,4,6-Trichlorophenol	0.5	0.3679		74										39 - 120	-		

12 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Phone: 504.469.0333
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LELAP # 02006

Report: 2067456 **Batch: 83462**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20506605	Sample	76	51	36	69	28	68		
20507498	BLANK	78	58	33	75	26	63		
20507499	LCS	83	59	31	73	24	69		
20507504	MS Q1	82	70	33	72	23	135 *		
20507505	MSD	82	56	33	71	26	71		
	QC limits:	25-133	36-108	10-109	21-120	15-113	17-130		

Sur 1: 2,4,6-Tribromophenol (S)
Sur 2: 2-Fluorobiphenyl (S)
Sur 3: 2-Fluorophenol (S)
Sur 4: Nitrobenzene-d5 (S)
Sur 5: Phenol-d5 (S)
Sur 6: Terphenyl-d14 (S)

*** denotes surrogate recovery outside of QC limits.**
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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LELAP # 02006

Report: 2067456 **Batch: 83464**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20506605	Sample	121	117	107					
20506606	Sample	127	115	109					
20506607	Sample	129	102	107					
20506608	Sample S1	132 *	95	107					
20506609	Sample	127	114	107					
20506610	Sample	121	116	106					
20506611	Sample D5,S	148 *	120	107					
20507507	BLANK S1	149 *	116	107					
20507508	LCS	115	105	108					
20507509	MS	113	106	109					
20507510	MSD	119	100	108					
QC limits:		71-129	68-124	74-122					

Sur 1: 4-Bromofluorobenzene (S)
Sur 2: Dibromofluoromethane (S)
Sur 3: Toluene-d8 (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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LELAP # 02006

Report: 2067456 **Batch: 83642**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20506606	Sample M1	5 *	11 *	4 *	71	4 *	53		
20506607	Sample S1	42	51	58	73	47	152 *		
20506608	Sample M1	4 *	45	4 *	69	4 *	80		
20506609	Sample M1	4 *	16 *	3 *	66	4 *	68		
20506610	Sample D3,M	0 D	196 D	1 D	38	0 D	99		
20506611	Sample M1,P	15 *	81	25	74	41	190 *		
20508395	BLANK	77	52	31	66	24	77		
20508396	LCS	87	60	38	74	28	76		
QC limits:		25-133	36-108	10-109	21-120	15-113	17-130		

Sur 1: 2,4,6-Tribromophenol (S)
Sur 2: 2-Fluorobiphenyl (S)
Sur 3: 2-Fluorophenol (S)
Sur 4: Nitrobenzene-d5 (S)
Sur 5: Phenol-d5 (S)
Sur 6: Terphenyl-d14 (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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Phone: 504.469.0333
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LELAP # 02006

Lab ID: 20507498 (TCLP)

Description: 8270 SVOAs TCLP Blank **Project No.:** 2067456

Method: EPA 8270 (TCLP) **Batch:** 83462 **Units:** mg/L

Prep Factor: 1 **Leached:** **Prepared:** 15-Mar-07 **Analyzed:** 03/16/07 17:44 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
106-46-7	1,4-Dichlorobenzene	1	ND		0.100
121-14-2	2,4-Dinitrotoluene	1	ND		0.100
87-68-3	Hexachloro-1,3-butadiene	1	ND		0.100
118-74-1	Hexachlorobenzene	1	ND		0.100
67-72-1	Hexachloroethane	1	ND		0.100
95-48-7	2-Methylphenol (o-Cresol)	1	ND		0.100
108-39-4	3-Methylphenol (m-Cresol)	1	ND	A7	0.100
106-44-5	4-Methylphenol (p-Cresol)	1	ND	A7	0.100
98-95-3	Nitrobenzene	1	ND		0.100
87-86-5	Pentachlorophenol	1	ND		0.250
110-86-1	Pyridine	1	ND		0.100
95-95-4	2,4,5-Trichlorophenol	1	ND		0.250
88-06-2	2,4,6-Trichlorophenol	1	ND		0.100

13 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Lab ID: 20507507 (TCLP)

Description: 8260 VOAs Full List TCLP, BLK **Project No.:** 2067456

Method: EPA 8260 (TCLP) **Batch:** 83464 **Units:** mg/L

Prep Factor: 1 **Leached:** **Prepared:** 15-Mar-07 **Analyzed:** 03/15/07 10:42 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
71-43-2	Benzene	1	ND		0.250
78-93-3	2-Butanone (MEK)	1	ND	A11	0.500
56-23-5	Carbon tetrachloride	1	ND		0.250
108-90-7	Chlorobenzene	1	ND		0.250
67-66-3	Chloroform	1	ND		0.250
107-06-2	1,2-Dichloroethane	1	ND		0.250
75-35-4	1,1-Dichloroethene	1	ND		0.250
127-18-4	Tetrachloroethene	1	ND		0.250
79-01-6	Trichloroethene	1	ND		0.250
75-01-4	Vinyl chloride	1	ND		0.250

10 compound(s) reported

3/23/2007 12:44:35

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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LELAP # 02006

Lab ID: 20508395 (TCLP)

Description: 8270 SVOAs TCLP Blank **Project No.:** 2067456

Method: EPA 8270 (TCLP) **Batch:** 83642 **Units:** mg/L

Prep Factor: 1 **Leached:** **Prepared:** 20-Mar-07 **Analyzed:** 03/21/07 13:54 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
106-46-7	1,4-Dichlorobenzene	1	ND		0.100
121-14-2	2,4-Dinitrotoluene	1	ND		0.100
87-68-3	Hexachloro-1,3-butadiene	1	ND		0.100
118-74-1	Hexachlorobenzene	1	ND		0.100
67-72-1	Hexachloroethane	1	ND		0.100
95-48-7	2-Methylphenol (o-Cresol)	1	ND		0.100
108-39-4	3-Methylphenol (m-Cresol)	1	ND	A7	0.100
106-44-5	4-Methylphenol (p-Cresol)	1	ND	A7	0.100
98-95-3	Nitrobenzene	1	ND		0.100
87-86-5	Pentachlorophenol	1	ND		0.250
110-86-1	Pyridine	1	ND		0.100
95-95-4	2,4,5-Trichlorophenol	1	ND		0.250
88-06-2	2,4,6-Trichlorophenol	1	ND		0.100

13 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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LELAP # 02006

Method: EPA 8081 **Project:** 2067456 **LCS:** 20507801 3/20/2007 7:24:00 PM

Batch: 83515 **MS:** 20507802 3/20/2007 9:03:00 PM

Units: mg/L **Original for MS:** 20506605 Client Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
gamma-BHC (Lindane)	0.005	0.004666		93			0.005	0.00	0.004547	0.004508	91	90	1	39 - 153	18 - 171	20	
Endrin	0.005	0.006119		122			0.005	0.00	0.006092	0.005989	122	120	2	49 - 171	30 - 187	20	
Heptachlor	0.005	0.003024		61			0.005	0.00	0.002666	0.002724	53	55	2	33 - 152	14 - 159	20	
Heptachlor epoxide	0.005	0.00422		84			0.005	0.00	0.00411	0.004001	82	80	3	45 - 144	24 - 158	20	
Methoxychlor	0.005	0.004178		84			0.005	0.00	0.004476	0.004226	90	85	6	19 - 178	10 - 194	20	

5 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Method: EPA 8151 **Project:** 2067456 **LCS:** 20508189 3/21/2007 5:26:00 PM

Batch: 83589 **MS:** 20508190 3/21/2007 7:43:00 PM

Units: mg/L **Original for MS:** 20506606 Client Sample

Parameter Name	LCS Spike	LCS Found	LCSD Found	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	(1)MS RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
2,4-D	0.1	0.1076		108			0.1	0.16	0.202	0.2295	40	67	13	25 - 163	10 - 182	20	Ph,Q1
2,4,5-TP (Silvex)	0.01	0.01073		107			0.01	0.00	0.01731	0.01304	173	130	28 *	30 - 165	15 - 174	20	Ph,Q3

2 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Report: 2067456 **Batch: 83515**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20506605	Sample	95	96	78	71				
20506606	Sample	98	97	78	71				
20506607	Sample	47	48	9 *	13 *				
20506608	Sample	84	85	50	51				
20506609	Sample	84	85	50	46				
20506610	Sample D1	0 D	0 D	0 D	0 D				
20506611	Sample	42	49	63	33				
20507800	BLANK	96	98	70	70				
20507801	LCS	94	95	70	60				
20507802	MS	96	98	72	61				
20507803	MSD	92	93	71	59				
QC limits:		10-157	10-157	18-171	18-171				

Sur 1: Decachlorobiphenyl (Conf)(S)
Sur 2: Decachlorobiphenyl (S)
Sur 3: Tetrachloro-m-xylene (Conf)(S)
Sur 4: Tetrachloro-m-xylene (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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LELAP # 02006

Report: 2067456 **Batch: 83589**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20506605	Sample	104	108						
20506606	Sample D1	148	0 D						
20506607	Sample G1	108	236 *						
20506608	Sample	99	132						
20506609	Sample	89	99						
20506610	Sample D2	0 D	0 D						
20506611	Sample D2	168	0 D						
20508188	BLANK	105	108						
20508189	LCS	112	116						
20508190	MS	111	134						
20508191	MSD	140	167						
QC limits:		10-181	10-181						

Sur 1: 2,4-DCPA (Conf)(S)
Sur 2: 2,4-DCPA (S)

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D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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Phone: 504.469.0333
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LELAP # 02006

Lab ID: 20507800 (TCLP)

Description: 8081 Pests TCLP Blank **Project No.:** 2067456

Method: EPA 8081 (TCLP) **Batch:** 83515 **Units:** mg/L

Prep Factor: 1 **Leached:** **Prepared:** 16-Mar-07 **Analyzed:** 03/20/07 19:08 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
58-89-9	gamma-BHC (Lindane)	1	ND		0.000500
57-74-9	Chlordane	1	ND		0.00100
72-20-8	Endrin	1	ND		0.00100
76-44-8	Heptachlor	1	ND		0.000500
1024-57-3	Heptachlor epoxide	1	ND		0.000500
72-43-5	Methoxychlor	1	ND		0.00500
8001-35-2	Toxaphene	1	ND		0.0200

7 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/23/2007 12:44:44

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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New Orleans Laboratory

Report of Method Blank

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20508188 (TCLP)

Description: 8151 Herbs TCLP Blank **Project No.:** 2067456

Method: EPA 8151 (TCLP) **Batch:** 83589 **Units:** mg/L

Prep Factor: 1 **Leached:** **Prepared:** 20-Mar-07 **Analyzed:** 03/21/07 16:59 SRA (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
94-75-7	2,4-D	1	ND		0.0200
93-72-1	2,4,5-TP (Silvex)	1	ND		0.00500

2 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

3/23/2007 12:44:44

New Orleans Laboratory Certifications
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Phone: 504.469.0333
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LELAP # 02006

Project: 2067456

Parameter	Batch	Blank	ARL	Units	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS DUP RPD	QC Limits LCS	QC Limits MS/MSD	RPD Max	Qu
Arsenic	83448	ND	0.200	mg/L	2	108			2	99	90	10	79 - 122	68 - 130	20	
Barium	83448	ND	2.00	mg/L	2	114			2	99	86	10	80 - 120	56 - 133	20	
Cadmium	83448	ND	0.100	mg/L	2	109			2	97	87	10	81 - 119	44 - 146	20	
Chromium	83448	ND	0.200	mg/L	2	107			2	94	85	10	81 - 120	58 - 135	20	
Lead	83448	ND	0.200	mg/L	2	109			2	97	88	10	79 - 122	58 - 131	20	
Selenium	83448	ND	0.200	mg/L	2	110			2	101	92	9	76 - 120	59 - 131	20	
Silver	83448	ND	0.200	mg/L	1	112			1	102	93	10	67 - 129	10 - 154	20	
Mercury	83449	ND	0.200	ug/L	1	101			1	111	112	1	80 - 120	75 - 125	20	

3/23/2007 12:44:47

ARL denotes Adjusted Reporting Limit , corrected for sample size, dilution and moisture content as applicable.
* denotes recovery outside of QC limits.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Wet Chemistry Quality Control Results

Project: 2067456

Parameter	Batch	Blank	ARL	Units	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	RPD Max	Qu
Cyanide, Reac	83360	ND	25.0	mg/kg	100	9			100	8			0	1 - 110	1 - 110	20	
Flash Point	83456			deg C	27	100								-	-		
pH	83358			1. Units	6	100							0	97 - 103	-	20	
pH	83298			1. Units	6	100							0	97 - 103	-	20	
Sulfide, Reacti	83359	ND	50.0	mg/kg	500	88			499.8	17			0	1 - 110	1 - 110	20	

3/23/2007 12:44:49

ARL denotes Adjusted Reporting Limit , corrected for sample size, dilution and moisture content as applicable.
* denotes recovery outside of QC limits.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Report Qualifiers

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1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2067456

Analyte Qualifiers

Qualifier	Qualifier Description
A7	3-Methylphenol and 4-methylphenol coelute under the conditions used for analysis, therefore the precise isomer in the sample cannot be determined. The sample concentration is arbitrarily reported as 4-methylphenol.
A11	This analyte is a common solvent. Its presence in field samples may be an artifact of sample collection, transport, laboratory storage or analysis.
G1	Interferences are present which caused poor surrogate recovery.
P	The relative percent difference between the two detectors is greater than 40%, indicating interference on one of the detectors. The lower of the two values is reported.
Ph	The relative percent difference between the two detectors is greater than 40%, indicating interference on one or more detectors. The higher of the two values is reported.

General Qualifiers

Qualifier	Qualifier Description
D1	The analysis was performed at a dilution due to the high analyte concentration.
D2	The analysis was performed at a dilution due to the presence of matrix interferences.
D5	The sample was analyzed at a dilution due to foaming of the sample in the purge vessel.

QC Qualifiers

Qualifier	Qualifier Description
Q1	The matrix spike recoveries are poor. Acceptable method performance for this analyte has been demonstrated by the laboratory control sample recovery.
Q3	The matrix spike recoveries are poor due to the presence of this analyte in the sample at a concentration greater than 4 times the spiked amount. Acceptable method performance for this analyte has been demonstrated by the laboratory control sample.
S1	The surrogate recovery was above the QC limit. The data are reported without qualification since the associated target analytes were not detected in the sample.

Sample Qualifiers

Qualifier	Qualifier Description
M1	The sample required reextraction and/or reanalysis due to surrogate recoveries outside the QC limits. Reanalysis yielded similar results, indicating a sample matrix effect. The results reported are from the original analysis.
M2	The sample required reanalysis due to internal standard response outside the QC limits. Reanalysis yielded similar results, indicating a sample matrix effect. The results reported are from the original analysis.
P2	The sample extract could not be concentrated to the method specified final volume. The reporting limit is elevated accordingly.

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Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health .Environment - E-10266
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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

2067456

Page: 2 of 2

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: ARCADIS	Report To: Craig Derouen	Attention: ARCADIS - Accounts Payable
Address: 10352 Plaza Americana Drive	Copy To: Jane Kennedy	Company Name: ARCADIS
Baton Rouge, Louisiana 70816		Address: 10352 Plaza Americana; Baton Rouge, LA 70819
Email To: Craig.Derouen@arcadis-us.com; Jane.Kennedy@arcadis-us.com	Purchase Order No.:	Pace Quote Reference:
Phone: (225) 292-1004 Fax: (225) 218-9677	Project Name: MS Bluffs (Vicksburg, MS)	Pace Project Manager: Cindy Olavesen
Requested Due Date/TAT:	Project Number: LA002656.0001.00019	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER MDEQ TRGs

SITE LOCATION: ☐ GA ☐ IL ☐ IN ☐ MI ☐ NC ☐ OH ☐ SC ☐ WI ☑ OTHER MS

Section D Required Client Information

SAMPLE ID

One Character per box.
(A-Z, 0-9 / ,-)
Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analyses: TCLP VOA	TCLP SV	TCLP PEST	TCLP METALS	TCLP HERBS	PCI	Pace Project Number / Lab I.D.
1	T-608 (03050 7)	SL	G	03/05/07			0957		4	✓								✓	✓	✓	✓	✓	✓	2050605
2	T-225 (03050 7)	WW	C	03/05/07			0955		4	✓								✓	✓	✓	✓	✓	✓	606
3	T-23 (03050 7)	WW	G	03-05-07			1017		4	✓								✓	✓	✓	✓	✓	✓	607
4	T-26 (03050 7)	WW	G	03-05-07			1030		4	✓								✓	✓	✓	✓	✓	✓	608
5	T-25 (03050 7)	WW	G	03-05-07			1105		4	✓								✓	✓	✓	✓	✓	✓	609
6	V-76 (03050 7)	WW	G	3-5-07			1110		4	✓								✓	✓	✓	✓	✓	✓	610
7	No. 4h-Bet 2- Comp. 01 (03050 7)	WW	C	3-5-07			1140		4	✓								✓	✓	✓	✓	✓	✓	611
8																								
9																								
10																								
11																								
12																								

Additional Comments:

MDEQ Tier 1 TRG Detection Limits

* V-76 could be Strong Acid !

5 coolers

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
George Cook/Arcadis	3/5/07	1510	[signature] Pace	3-9-07	1510
[signature]	3-9-07	1635	[signature] Pace	3-9-07	1635

SAMPLE CONDITIONS

Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
2.3	Y/N	Y/N	Y/N
2.7	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: George E Cook

SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 03/05/07

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

2067456

Page: 2 of 2

Section A — **Required** Client Information:

Company: ARCADIS	
Address: 10352 Plaza Americana Drive	
Baton Rouge, Louisiana 70816	
Email To: Craig.Derouen@arcadis-us.com; Jane.Kennedy@arcadis-us.com	
Phone: (225) 292-1004 Fax: (225) 218-9677	
Requested Due Date/TAT:	

Section B — **Required** Project Information:

Report To: Craig Derouen
Copy To: Jane Kennedy
Purchase Order No.:
Project Name: MS Bluffs (Vicksburg, MS)
Project Number: LA002656.0001.00019

Section C — Invoice Information:

Attention: ARCADIS - Accounts Payable
Company Name: ARCADIS
Address: 10352 Plaza Americana; Baton Rouge, LA 70819
Pace Quote Reference:
Pace Project Manager: Cindy Olavesen
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER MDEQ TRGs

SITE LOCATION: ☐ GA ☐ IL ☐ IN ☐ MI ☐ NC ☐ OH ☐ SC ☑ WI ☐ OTHER MS

Section D — **Required** Client Information

SAMPLE ID
One Character per box.
(A-Z, 0-9 / ,-)
Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analyses: TCLP VOA	TCLP SV	TCLP PEST	TCLP METALS	TCLP HERBS	RCI	Pace Project Number / Lab I.D.
1	T-608 (030907)	SL	G	03/09/07			0937		4	✓								✓						2050608
2	T-225 N (030907)	WW	G	03/09/07			0955		4	✓								✓						606
3	T-23E (030907)	WW	G	03-09-07			1047		4	✓								✓						607
4	T-26 (030907)	WW	G	03-09-07			1030		4	✓								✓						608
5	T-25 (030907)	WW	G	03-09-07			1105		4	✓								✓						609
6	V-76 (030907)	WW	G	3-9-07			1110		4	✓								✓						610
7	North-Bet2-Comp.01 (030907)	WW	C	3-9-07			1140		4	✓								✓						611
8																								
9																								
10																								
11																								
12																								

Additional Comments:

MDEQ Tier 1 TRG Detection Limits

* V-76 could be Strong Acid !

5 coolers

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Craig Cook / Arcadis	3/9/07	1510	Marie Fabian / Pace	3-9-07	1510
Marie Fabian	3-9-07	1635	RCB / Pace	3-9-07	1635

SAMPLE CONDITIONS

Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
2.3 / 2.7	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Craig E Cook

SIGNATURE of SAMPLER:

DATE Signed (MM / DD / YY): 03/09/07

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New Orleans Laboratory

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
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Phone: 504.469.0333
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LELAP # 02006

April 11, 2007

Craig Derouen
Arcadis Geraghty & Miller
10352 Plaza Americana Drive
Baton Rouge, LA 70816

RE: Project: 2067909
RE: Project ID: MS BLUFFS/la002656.0001

Dear Craig Derouen:

Enclosed are the analytical results for sample(s) received by the laboratory on March 27, 2007. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Cindy Olavesen

Cindy Olavesen

ACCREDITED IN ACCORDANCE WITH nelac

REPORT OF LABORATORY ANALYSIS

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LELAP # 02006

Report of Laboratory Analysis

Project Number: 2067909

4/11/2007 10:11:33

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Sample Cross Reference Report

Pace Analytical Services, Inc.
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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Project: MS BLUFFS/la002656.0001

Project No.: 2067909

Sample ID	Lab ID	Matrix	Collection Date/Time		Received Date/Time	
S/S-14-A (0-2') (032607)	20509776	Soil	03/26/2007	12:38	03/27/2007	10:15
S/S-11-A (0-2') (032607)	20509780	Soil	03/26/2007	13:00	03/27/2007	10:15

4/11/2007 10:11:36

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Project Narrative

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LELAP # 02006

Project: **2067909**

Sample Receipt Condition:

All samples were received in accordance with EPA protocol.

Holding Times:

All holding times were met.

Blanks:

All blank results were below reporting limits.

Laboratory Control Samples:

All LCS recoveries were within QC limits

Matrix Spikes and Duplicates:

All MS/MSD recoveries or duplicate RPDs were within QC limits

Surrogates:

All surrogate recoveries were within QC limits.

New Orleans Laboratory Certifications
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Report of Laboratory Analysis

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: S/S-14-A (0-2') (032607) **Site:** None

Project: MS BLUFFS/la002656.0001 **Project No.:** 2067909 **Sample Qu:**

Lab ID: 20509776 (SPLP) **Matrix:** Soil **% Moisture:** 0 Not Corrected

Description: None **Prep Level:** Soil **Batch:** 84148

Method: 8151 Herbs SPLP **Units:** ug/L **Target List:** 8151_PL20

Collected: 03/26/07 **Received:** 03/27/07

Prep Factor: 1 **Prepared:** 04/02/07 **Analyzed:** 04/06/07 12:32 SRA (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	10	972.	D1	22.4	200.	

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit denotes an actual regulatory limit or a client-requested notification limit.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

4/11/2007 10:12:04

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
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Report of Laboratory Analysis

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: S/S-11-A (0-2') (032607)
Site: None
Project: MS BLUFFS/la002656.0001
Project No.: 2067909
Sample Qu:
Lab ID: 20509780 (SPLP)
Matrix: Soil
% Moisture: 0 Not Corrected
Description: None
Prep Level: Soil
Batch: 84144
Method: 8081 Pests SPLP
Units: ug/L
Target List: 8081_PL20
Collected: 03/26/07
Received: 03/27/07
Prep Factor: 1
Prepared: 04/02/07
Analyzed: 04/09/07 15:52 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		2.00	2.00	

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit denotes an actual regulatory limit or a client-requested notification limit.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

4/11/2007 10:12:04

New Orleans Laboratory Certifications
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Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environment - E-10266
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New Orleans Laboratory

Report of Quality Control

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Method: EPA 8151 **Project:** 2067909 **LCS:** 20510951 4/4/2007 10:31:00 PM

Batch: 84148 **MS:**

Units: ug/L **Original for MS:**

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Dinoseb	50	41.66	83								10 - 146	-		

1 compound(s) reported

* denotes recovery outside of QC limits.

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

4/11/2007 10:12:07

New Orleans Laboratory Certifications
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Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
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Report of Batch Surrogate Recovery

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Report: 2067909 **Batch: 84144**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20509780	Sample	81	78	61	62				
20510940	BLANK	70	55	63	59				
20510941	LCS	76	80	56	59				
	QC limits:	10-157	10-157	18-171	18-171				

Sur 1: Decachlorobiphenyl (Conf)(S)
Sur 2: Decachlorobiphenyl (S)
Sur 3: Tetrachloro-m-xylene (Conf)(S)
Sur 4: Tetrachloro-m-xylene (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

4/11/2007 10:12:10

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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New Orleans Laboratory

Report of Batch Surrogate Recovery

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Report: 2067909 **Batch: 84148**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20509776	Sample D1	88	74						
20510950	BLANK	114	114						
20510951	LCS	111	113						
20511391	BLANK	85	76						
20511392	LCS	106	104						
	QC limits:	10-181	10-181						

Sur 1: 2,4-DCPA (Conf)(S)
Sur 2: 2,4-DCPA (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

4/11/2007 10:12:10

New Orleans Laboratory Certifications
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Kansas Dept. of Health Environment - E-10266
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Report of Method Blank

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20510940

Description: 8081 Pests Water **Project No.:** 2067909

Method: EPA 8081 **Batch:** 84144 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 02-Apr-07 **Analyzed:** 04/03/07 17:23 MLS (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
309-00-2	Aldrin	1	ND		0.0500
319-84-6	alpha-BHC	1	ND		0.0500
319-85-7	beta-BHC	1	ND		0.0500
319-86-8	delta-BHC	1	ND		0.0500
58-89-9	gamma-BHC (Lindane)	1	ND		0.0500
5103-71-9	alpha-Chlordane	1	ND		0.0500
5103-74-2	gamma-Chlordane	1	ND		0.0500
510-15-6	Chlorobenzilate	1	ND		1.00
72-54-8	4,4'-DDD	1	ND		0.100
72-55-9	4,4'-DDE	1	ND		0.100
50-29-3	4,4'-DDT	1	ND		0.100
2303-16-4	Diallate	1	ND		1.00
60-57-1	Dieldrin	1	ND		0.100
959-98-8	Endosulfan I	1	ND		0.0500
33213-65-9	Endosulfan II	1	ND		0.100
1031-07-8	Endosulfan sulfate	1	ND		0.100
72-20-8	Endrin	1	ND		0.100
7421-93-4	Endrin aldehyde	1	ND		0.100
76-44-8	Heptachlor	1	ND		0.0500
1024-57-3	Heptachlor epoxide	1	ND		0.0500
465-73-6	Isodrin	1	ND		0.100
143-50-0	Kepone	1	ND		1.00
72-43-5	Methoxychlor	1	ND		0.500
8001-35-2	Toxaphene	1	ND		2.00

24 compound(s) reported

4/11/2007 10:12:13

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Kansas Dept. of Health Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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Report of Method Blank

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20510950

Description: 8151 Herbs Water **Project No.:** 2067909

Method: EPA 8151 **Batch:** 84148 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 02-Apr-07 **Analyzed:** 04/04/07 22:04 SRA (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
94-75-7	2,4-D	1	ND		20.0
127-20-8	Dalapon	1	ND		100.
94-82-6	2,4-DB	1	ND		50.0
1918-00-9	Dicamba	1	ND		20.0
120-36-5	Dichloroprop	1	ND		20.0
88-85-7	Dinoseb	1	ND		20.0
94-74-6	MCPA	1	ND		2500
7085-19-0	MCPP	1	ND		2500
93-76-5	2,4,5-T	1	ND		20.0
93-72-1	2,4,5-TP (Silvex)	1	ND		20.0

10 compound(s) reported

4/11/2007 10:12:14

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

New Orleans Laboratory Certifications
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Report Qualifiers

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2067909

General Qualifiers

Qualifier	Qualifier Description
D1	The analysis was performed at a dilution due to the high analyte concentration.

New Orleans Laboratory Certifications
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Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

2067909

Page: of

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: ARCADIS	Report To: Craig Derouen	Attention: ARCADIS - Accounts Payable
Address: 10352 Plaza Americana Drive	Copy To: Jane Kennedy	Company Name: ARCADIS
Baton Rouge, Louisiana 70816		Address: 10352 Plaza Americana; Baton Rouge, LA 70819
Email To: Craig.Derouen@arcadis-us.com; Jane.Kennedy@arcadis-us.com	Purchase Order No.:	Pace Quote Reference:
Phone: (225) 292-1004 Fax: (225) 218-9677	Project Name: MS Bluffs (Vicksburg, MS)	Pace Project Manager: Cindy Olavesen
Requested Due Date/TAT:	Project Number: LA002656.0001	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER MDEQ TRGs

SITE LOCATION ☐ GA ☐ IL ☐ IN ☐ MI ☐ NC ☐ OH ☐ SC ☐ WI ☑ OTHER MS

Filtered (Y/N)

Requested Analysis

Valid Matrix Codes: MATRIX / CODE — DRINKING WATER / DW; WATER / WT; WASTE WATER / WW; PRODUCT / P; SOIL/SOLID / SL; OIL / OL; WIPE / WP; AIR / AR; OTHER / OT; TISSUE / TS

ITEM #	Section D Required Client Information — SAMPLE ID (One Character per box. (A-Z, 0-9 / ,-) Samples IDs MUST BE UNIQUE)	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	SPLP-DINOSEB	SPLP-TOXAPHENE	Pace Project Number / Lab I.D.
1	SLS-14-A (0-2') (032607)	SL	G	03/26/07	1238	03/26/07	1350		1	1								1		20509776
2	SLS-11-A (0-2') (032607)	SL	G	03/26/07	1300	03/26/07	1310		1	1									1	780
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

Additional Comments:

MDEQ Tier 1 TRG Detection Limits

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
George Cook/Arcadis	03/26/07	1650			
Fed Ex 3270		1015	M. Mallet/Pace	3-27-07	1015

SAMPLE CONDITIONS

Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
4	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: George E Cook

SIGNATURE of SAMPLER: George E Cook

DATE Signed (MM/DD/YY): 03/26/07

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

2067909

Page: of

Section A **Required** Client Information:	Section B **Required** Project Information:	Section C Invoice Information:
Company: ARCADIS	Report To: Craig Derouen	Attention: ARCADIS - Accounts Payable
Address: 10352 Plaza Americana Drive	Copy To: Jane Kennedy	Company Name: ARCADIS
Baton Rouge, Louisiana 70816		Address: 10352 Plaza Americana; Baton Rouge, LA 70819
Email To: Craig.Derouen@arcadis-us.com; Jane.Kennedy@arcadis-us.com	Purchase Order No.:	Pace Quote Reference:
Phone: (225) 292-1004 Fax: (225) 218-9677	Project Name: MS Bluffs (Vicksburg, MS)	Pace Project Manager: Cindy Olavesen
Requested Due Date/TAT:	Project Number: LA002656.0001	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER MDEQ TRGs

SITE LOCATION: ☐ GA ☐ IL ☐ IN ☐ MI ☐ NC ☐ OH ☐ SC ☐ WI ☑ OTHER MS

Filtered (Y/N)

Requested Analysis

Section D **Required** Client Information

SAMPLE ID
One Character per box.
(A-Z, 0-9 / ,-)
Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL WP
WIPE	AR
AIR	OT
OTHER	TS
TISSUE	

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	SPLP-DINOSEB	SPLP-TOXAPHENE	Pace Project Number Lab I.D.
1	S/S-14-A(0-2')(032607)	SL	G	032607	1238	032607	1350		1	1								1		2050977 6
2	S/S-11-A(0-2')(032607)	SL	G	032607	1300	032607	1310		1	1									1	780
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

Additional Comments:

MDEQ Tier 1 TRG Detection Limits

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
George Cook/Arcadis	032607	1650					Y/N	Y/N	Y/N
FedEx	3-27-07	1015	[illegible] / Pace	3-27-07	1015	2.4	Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N

SAMPLE CONDITIONS

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: George E Cook

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM / DD / YY): 032607

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New Orleans Laboratory

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

RECEIVED
APR 19 2007
ARCADIS Geraghty & Miller

April 13, 2007

Craig Derouen
Arcadis Geraghty & Miller
10352 Plaza Americana Drive
Baton Rouge, LA 70816

RE: Project: 2068069
RE: Project ID: MS BLUFFS VICKSBURG,MS

Dear Craig Derouen:

Enclosed are the analytical results for sample(s) received by the laboratory on March 30, 2007. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Cindy Olavesen

Cindy Olavesen

ACCREDITED IN ACCORDANCE WITH nelac

REPORT OF LABORATORY ANALYSIS

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Report of Laboratory Analysis

Project Number: 2068069

4/13/2007 14:55:01

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Sample Cross Reference Report

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Project: MS BLUFFS VICKSBURG,MS

Project No.: 2068069

Sample ID	Lab ID	Matrix	Collection Date/Time		Received Date/Time	
LF-B-02 (12-14)	20510815	Soil	03/29/2007	12:30	03/30/2007	15:55
LF-B-02 (30-32)	20510816	Soil	03/29/2007	13:30	03/30/2007	15:55
LF-B-03 (12-14)	20510817	Soil	03/29/2007	15:00	03/30/2007	15:55
TB-01 (032907)	20510818	Water	03/29/2007		03/30/2007	15:55

4/13/2007 14:55:04

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Project Narrative

Pace Analytical Services, Inc.
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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: **2068069**

Sample Receipt Condition:

All samples were received in accordance with EPA protocol.

Holding Times:

All holding times were met.

Blanks:

All blank results were below reporting limits.

Laboratory Control Samples:

LCS recoveries outside of QC limits are qualified in the Report of Quality Control section.

Matrix Spikes and Duplicates:

MS or MSD recoveries outside of QC limits are qualified in the Report of Quality Control section.

Surrogates:

Surrogate recoveries outside of QC limits are qualified in the surrogate results section.

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Project Narrative

Pace Analytical Services, Inc.
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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2068069

Analytical Method	Batch	Sample used for QC
EPA 8151	84196	Batch sample from another client
EPA 8081	84521	Project sample LF-B-02 (12-14)
EPA 6010	84511	Project sample LF-B-02 (12-14)
EPA 8270	84447	Batch sample from another client
EPA 8260	84177	Batch sample from another client
EPA 8260	84180	Batch sample from another client
% Moisture	84174	Batch sample from another client

For the sample used as the original for the DUP or MS/MSD for the batch:

Project sample means a sample from this project was used.
Client sample means a sample from the same client but in a different project was used.
Batch sample means a sample from the a different client was used.

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Report of Laboratory Analysis

Pace Analytical Services, Inc.
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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: LF-B-02 (12-14)
Site: None
Project: MS BLUFFS VICKSBURG,MS
Project No.: 2068069
Sample Qu:
Lab ID: 20510815
Matrix: Soil
% Moisture: 16 Corrected
Description: None
Prep Level: Soil
Batch: 84180
Method: 8260 VOAs Low Soil
Units: ug/kg
Target List: 8260_SL20
Collected: 03/29/07
Received: 03/30/07
Prep Factor: 1
Prepared: 04/04/07
Analyzed: 04/04/07 18:37 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	9.68	
75-05-8	Acetonitrile	1	ND		96.8	
107-02-8	Acrolein	1	ND		19.4	
107-13-1	Acrylonitrile	1	ND		19.4	
107-05-1	Allyl chloride	1	ND		9.68	
71-43-2	Benzene	1	ND		4.84	
75-27-4	Bromodichloromethane	1	ND		4.84	
75-25-2	Bromoform	1	ND		4.84	
74-83-9	Bromomethane	1	ND		4.84	
78-93-3	2-Butanone (MEK)	1	ND	A11	9.68	
75-15-0	Carbon disulfide	1	8.35		4.84	
56-23-5	Carbon tetrachloride	1	ND		4.84	
108-90-7	Chlorobenzene	1	ND		4.84	
75-00-3	Chloroethane	1	ND		4.84	
67-66-3	Chloroform	1	ND		4.84	
74-87-3	Chloromethane	1	ND		4.84	
126-99-8	Chloroprene	1	ND		4.84	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		4.84	
124-48-1	Dibromochloromethane	1	ND		4.84	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		4.84	
74-95-3	Dibromomethane	1	ND		4.84	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		4.84	
75-71-8	Dichlorodifluoromethane	1	ND		4.84	
75-34-3	1,1-Dichloroethane	1	ND		4.84	
107-06-2	1,2-Dichloroethane	1	ND		4.84	
75-35-4	1,1-Dichloroethene	1	ND		4.84	
156-60-5	trans-1,2-Dichloroethene	1	ND		4.84	
78-87-5	1,2-Dichloropropane	1	ND		4.84	
10061-01-5	cis-1,3-Dichloropropene	1	ND		4.84	
10061-02-6	trans-1,3-Dichloropropene	1	ND		4.84	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		242.	
100-41-4	Ethylbenzene	1	ND		4.84	
97-63-2	Ethyl methacrylate	1	ND		9.68	

4/13/2007 14:55:36

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit denotes an actual regulatory limit or a client-requested notification limit.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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New Orleans Laboratory

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: LF-B-02 (12-14)
Site: None
Project: MS BLUFFS VICKSBURG,MS
Project No.: 2068069
Sample Qu:
Lab ID: 20510815
Matrix: Soil
% Moisture: 16 Corrected
Description: None
Prep Level: Soil
Batch: 84180
Method: 8260 VOAs Low Soil
Units: ug/kg
Target List: 8260_SL20
Collected: 03/29/07
Received: 03/30/07
Prep Factor: 1
Prepared: 04/04/07
Analyzed: 04/04/07 18:37 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		9.68	
74-88-4	Iodomethane	1	ND		4.84	
78-83-1	Isobutanol	1	ND		242.	
126-98-7	Methacrylonitrile	1	ND		96.8	
75-09-2	Methylene chloride	1	ND	A11	4.84	
80-62-6	Methyl methacrylate	1	ND		9.68	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		9.68	
107-12-0	Propionitrile	1	ND		19.4	
100-42-5	Styrene	1	ND		4.84	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		4.84	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		4.84	
127-18-4	Tetrachloroethene	1	ND		4.84	
108-88-3	Toluene	1	ND		4.84	
71-55-6	1,1,1-Trichloroethane	1	ND		4.84	
79-00-5	1,1,2-Trichloroethane	1	ND		4.84	
79-01-6	Trichloroethene	1	ND		4.84	
75-69-4	Trichlorofluoromethane	1	ND		4.84	
96-18-4	1,2,3-Trichloropropane	1	ND		4.84	
95-63-6	1,2,4-Trimethylbenzene	1	ND		4.84	
108-67-8	1,3,5-Trimethylbenzene	1	ND		4.84	
108-05-4	Vinyl acetate	1	ND		9.68	
75-01-4	Vinyl chloride	1	ND		4.84	
	m&p-Xylene	1	ND		9.68	
95-47-6	o-Xylene	1	ND		4.84	

57 compound(s) reported

4/13/2007 14:55:36

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Kansas Dept. of Health Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

Pace Analytical
New Orleans Laboratory

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: LF-B-02 (12-14)
Site: None
Project: MS BLUFFS VICKSBURG,MS
Project No.: 2068069
Sample Qu:
Lab ID: 20510815
Matrix: Soil
% Moisture: 16 Corrected
Description: None
Prep Level: Soil
Batch: 84447
Method: 8270 SVOAs Low Soil
Units: ug/kg
Target List: 8270_SL20
Collected: 03/29/07
Received: 03/30/07
Prep Factor: 1
Prepared: 04/10/07
Analyzed: 04/11/07 23:29 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		393.	
1912-24-9	Atrazine	1	ND		393.	
21725-46-2	Cyanazine	1	ND		393.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		393.	
100-02-7	4-Nitrophenol	1	ND		393.	
87-86-5	Pentachlorophenol	1	ND		393.	

6 compound(s) reported

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: LF-B-02 (30-32)
Site: None
Project: MS BLUFFS VICKSBURG,MS
Project No.: 2068069
Sample Qu:
Lab ID: 20510816
Matrix: Soil
% Moisture: 22.5 Corrected
Description: None
Prep Level: Soil
Batch: 84180
Method: 8260 VOAs Low Soil
Units: ug/kg
Target List: 8260_SL20
Collected: 03/29/07
Received: 03/30/07
Prep Factor: 1
Prepared: 04/04/07
Analyzed: 04/04/07 18:56 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	9.88	
75-05-8	Acetonitrile	1	ND		98.8	
107-02-8	Acrolein	1	ND		19.8	
107-13-1	Acrylonitrile	1	ND		19.8	
107-05-1	Allyl chloride	1	ND		9.88	
71-43-2	Benzene	1	ND		4.94	
75-27-4	Bromodichloromethane	1	ND		4.94	
75-25-2	Bromoform	1	ND		4.94	
74-83-9	Bromomethane	1	ND		4.94	
78-93-3	2-Butanone (MEK)	1	ND	A11	9.88	
75-15-0	Carbon disulfide	1	ND		4.94	
56-23-5	Carbon tetrachloride	1	116.		4.94	
108-90-7	Chlorobenzene	1	ND		4.94	
75-00-3	Chloroethane	1	ND		4.94	
67-66-3	Chloroform	1	ND		4.94	
74-87-3	Chloromethane	1	ND		4.94	
126-99-8	Chloroprene	1	ND		4.94	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		4.94	
124-48-1	Dibromochloromethane	1	ND		4.94	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		4.94	
74-95-3	Dibromomethane	1	ND		4.94	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		4.94	
75-71-8	Dichlorodifluoromethane	1	ND		4.94	
75-34-3	1,1-Dichloroethane	1	ND		4.94	
107-06-2	1,2-Dichloroethane	1	ND		4.94	
75-35-4	1,1-Dichloroethene	1	ND		4.94	
156-60-5	trans-1,2-Dichloroethene	1	ND		4.94	
78-87-5	1,2-Dichloropropane	1	ND		4.94	
10061-01-5	cis-1,3-Dichloropropene	1	ND		4.94	
10061-02-6	trans-1,3-Dichloropropene	1	ND		4.94	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		247.	
100-41-4	Ethylbenzene	1	ND		4.94	
97-63-2	Ethyl methacrylate	1	ND		9.88	

4/13/2007 14:55:36

ND denotes Not Detected at or above the adjusted reporting limit.
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1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: LF-B-02 (30-32) **Site:** None

Project: MS BLUFFS VICKSBURG,MS **Project No.:** 2068069 **Sample Qu:**

Lab ID: 20510816 **Matrix:** Soil **% Moisture:** 22.5 Corrected

Description: None **Prep Level:** Soil **Batch:** 84180

Method: 8260 VOAs Low Soil **Units:** ug/kg **Target List:** 8260_SL20

Collected: 03/29/07 **Received:** 03/30/07

Prep Factor: 1 **Prepared:** 04/04/07 **Analyzed:** 04/04/07 18:56 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		9.88	
74-88-4	Iodomethane	1	ND		4.94	
78-83-1	Isobutanol	1	ND		247.	
126-98-7	Methacrylonitrile	1	ND		98.8	
75-09-2	Methylene chloride	1	ND	A11	4.94	
80-62-6	Methyl methacrylate	1	ND		9.88	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		9.88	
107-12-0	Propionitrile	1	ND		19.8	
100-42-5	Styrene	1	ND		4.94	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		4.94	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		4.94	
127-18-4	Tetrachloroethene	1	ND		4.94	
108-88-3	Toluene	1	7.35		4.94	
71-55-6	1,1,1-Trichloroethane	1	ND		4.94	
79-00-5	1,1,2-Trichloroethane	1	ND		4.94	
79-01-6	Trichloroethene	1	ND		4.94	
75-69-4	Trichlorofluoromethane	1	ND		4.94	
96-18-4	1,2,3-Trichloropropane	1	ND		4.94	
95-63-6	1,2,4-Trimethylbenzene	1	ND		4.94	
108-67-8	1,3,5-Trimethylbenzene	1	ND		4.94	
108-05-4	Vinyl acetate	1	ND		9.88	
75-01-4	Vinyl chloride	1	ND		4.94	
	m&p-Xylene	1	ND		9.88	
95-47-6	o-Xylene	1	ND		4.94	

57 compound(s) reported

4/13/2007 14:55:36

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: LF-B-02 (30-32) **Site:** None

Project: MS BLUFFS VICKSBURG,MS **Project No.:** 2068069 **Sample Qu:**

Lab ID: 20510816 **Matrix:** Soil **% Moisture:** 22.5 Corrected

Description: None **Prep Level:** Soil **Batch:** 84447

Method: 8270 SVOAs Low Soil **Units:** ug/kg **Target List:** 8270_SL20

Collected: 03/29/07 **Received:** 03/30/07

Prep Factor: 1 **Prepared:** 04/10/07 **Analyzed:** 04/11/07 23:59 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		426.	
1912-24-9	Atrazine	1	ND		426.	
21725-46-2	Cyanazine	1	ND		426.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		426.	
100-02-7	4-Nitrophenol	1	ND		426.	
87-86-5	Pentachlorophenol	1	ND		426.	

6 compound(s) reported

4/13/2007 14:55:36

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: LF-B-03 (12-14)
Site: None
Project: MS BLUFFS VICKSBURG,MS
Project No.: 2068069
Sample Qu:
Lab ID: 20510817
Matrix: Soil
% Moisture: 18.2 Corrected
Description: None
Prep Level: Soil
Batch: 84180
Method: 8260 VOAs Low Soil
Units: ug/kg
Target List: 8260_SL20
Collected: 03/29/07
Received: 03/30/07
Prep Factor: 1
Prepared: 04/04/07
Analyzed: 04/04/07 19:15 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	9.86	
75-05-8	Acetonitrile	1	ND		98.6	
107-02-8	Acrolein	1	ND		19.7	
107-13-1	Acrylonitrile	1	ND		19.7	
107-05-1	Allyl chloride	1	ND		9.86	
71-43-2	Benzene	1	ND		4.93	
75-27-4	Bromodichloromethane	1	ND		4.93	
75-25-2	Bromoform	1	ND		4.93	
74-83-9	Bromomethane	1	ND		4.93	
78-93-3	2-Butanone (MEK)	1	ND	A11	9.86	
75-15-0	Carbon disulfide	1	ND		4.93	
56-23-5	Carbon tetrachloride	1	32.4		4.93	
108-90-7	Chlorobenzene	1	ND		4.93	
75-00-3	Chloroethane	1	ND		4.93	
67-66-3	Chloroform	1	ND		4.93	
74-87-3	Chloromethane	1	ND		4.93	
126-99-8	Chloroprene	1	ND		4.93	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		4.93	
124-48-1	Dibromochloromethane	1	ND		4.93	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		4.93	
74-95-3	Dibromomethane	1	ND		4.93	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		4.93	
75-71-8	Dichlorodifluoromethane	1	ND		4.93	
75-34-3	1,1-Dichloroethane	1	ND		4.93	
107-06-2	1,2-Dichloroethane	1	ND		4.93	
75-35-4	1,1-Dichloroethene	1	ND		4.93	
156-60-5	trans-1,2-Dichloroethene	1	ND		4.93	
78-87-5	1,2-Dichloropropane	1	ND		4.93	
10061-01-5	cis-1,3-Dichloropropene	1	ND		4.93	
10061-02-6	trans-1,3-Dichloropropene	1	ND		4.93	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		247.	
100-41-4	Ethylbenzene	1	ND		4.93	
97-63-2	Ethyl methacrylate	1	ND		9.86	

4/13/2007 14:55:37

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: LF-B-03 (12-14)
Site: None
Project: MS BLUFFS VICKSBURG,MS
Project No.: 2068069
Sample Qu:
Lab ID: 20510817
Matrix: Soil
% Moisture: 18.2 Corrected
Description: None
Prep Level: Soil
Batch: 84180
Method: 8260 VOAs Low Soil
Units: ug/kg
Target List: 8260_SL20
Collected: 03/29/07
Received: 03/30/07
Prep Factor: 1
Prepared: 04/04/07
Analyzed: 04/04/07 19:15 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		9.86	
74-88-4	Iodomethane	1	ND		4.93	
78-83-1	Isobutanol	1	ND		247.	
126-98-7	Methacrylonitrile	1	ND		98.6	
75-09-2	Methylene chloride	1	ND	A11	4.93	
80-62-6	Methyl methacrylate	1	ND		9.86	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		9.86	
107-12-0	Propionitrile	1	ND		19.7	
100-42-5	Styrene	1	ND		4.93	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		4.93	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		4.93	
127-18-4	Tetrachloroethene	1	ND		4.93	
108-88-3	Toluene	1	7.55		4.93	
71-55-6	1,1,1-Trichloroethane	1	ND		4.93	
79-00-5	1,1,2-Trichloroethane	1	ND		4.93	
79-01-6	Trichloroethene	1	ND		4.93	
75-69-4	Trichlorofluoromethane	1	ND		4.93	
96-18-4	1,2,3-Trichloropropane	1	ND		4.93	
95-63-6	1,2,4-Trimethylbenzene	1	ND		4.93	
108-67-8	1,3,5-Trimethylbenzene	1	ND		4.93	
108-05-4	Vinyl acetate	1	ND		9.86	
75-01-4	Vinyl chloride	1	ND		4.93	
	m&p-Xylene	1	ND		9.86	
95-47-6	o-Xylene	1	ND		4.93	

57 compound(s) reported

4/13/2007 14:55:37

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: LF-B-03 (12-14) **Site:** None

Project: MS BLUFFS VICKSBURG,MS **Project No.:** 2068069 **Sample Qu:**

Lab ID: 20510817 **Matrix:** Soil **% Moisture:** 18.2 Corrected

Description: None **Prep Level:** Soil **Batch:** 84447

Method: 8270 SVOAs Low Soil **Units:** ug/kg **Target List:** 8270_SL20

Collected: 03/29/07 **Received:** 03/30/07

Prep Factor: 1 **Prepared:** 04/10/07 **Analyzed:** 04/12/07 00:29 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		404.	
1912-24-9	Atrazine	1	419.		404.	
21725-46-2	Cyanazine	1	ND		404.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		404.	
100-02-7	4-Nitrophenol	1	ND		404.	
87-86-5	Pentachlorophenol	1	ND		404.	

6 compound(s) reported

4/13/2007 14:55:37

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: TB-01 (032907) **Site:** None

Project: MS BLUFFS VICKSBURG,MS **Project No.:** 2068069 **Sample Qu:**

Lab ID: 20510818 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 84177

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 03/29/07 **Received:** 03/30/07

Prep Factor: 1 **Prepared:** 04/10/07 **Analyzed:** 04/10/07 02:12 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	10.0	
75-05-8	Acetonitrile	1	ND		100.	
107-02-8	Acrolein	1	ND		20.0	
107-13-1	Acrylonitrile	1	ND		20.0	
107-05-1	Allyl chloride	1	ND		10.0	
71-43-2	Benzene	1	ND		5.00	
75-27-4	Bromodichloromethane	1	ND		5.00	
75-25-2	Bromoform	1	ND		5.00	
74-83-9	Bromomethane	1	ND		5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	10.0	
75-15-0	Carbon disulfide	1	ND		5.00	
56-23-5	Carbon tetrachloride	1	ND		5.00	
108-90-7	Chlorobenzene	1	ND		5.00	
75-00-3	Chloroethane	1	ND		5.00	
67-66-3	Chloroform	1	ND		5.00	
74-87-3	Chloromethane	1	ND		5.00	
126-99-8	Chloroprene	1	ND		5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.00	
124-48-1	Dibromochloromethane	1	ND		5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		5.00	
74-95-3	Dibromomethane	1	ND		5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		5.00	
75-71-8	Dichlorodifluoromethane	1	ND		5.00	
75-34-3	1,1-Dichloroethane	1	ND		5.00	
107-06-2	1,2-Dichloroethane	1	ND		5.00	
75-35-4	1,1-Dichloroethene	1	ND		5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00	
78-87-5	1,2-Dichloropropane	1	ND		5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		250.	
100-41-4	Ethylbenzene	1	ND		5.00	
97-63-2	Ethyl methacrylate	1	ND		10.0	

4/13/2007 14:55:37

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Pace Analytical
New Orleans Laboratory

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: TB-01 (032907) **Site:** None

Project: MS BLUFFS VICKSBURG,MS **Project No.:** 2068069 **Sample Qu:**

Lab ID: 20510818 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 84177

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 03/29/07 **Received:** 03/30/07

Prep Factor: 1 **Prepared:** 04/10/07 **Analyzed:** 04/10/07 02:12 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		10.0	
74-88-4	Iodomethane	1	ND		5.00	
78-83-1	Isobutanol	1	ND		250.	
126-98-7	Methacrylonitrile	1	ND		100.	
75-09-2	Methylene chloride	1	ND	A11	5.00	
80-62-6	Methyl methacrylate	1	ND		10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0	
107-12-0	Propionitrile	1	ND		20.0	
100-42-5	Styrene	1	ND		5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00	
127-18-4	Tetrachloroethene	1	ND		5.00	
108-88-3	Toluene	1	ND		5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		5.00	
79-01-6	Trichloroethene	1	ND		5.00	
75-69-4	Trichlorofluoromethane	1	ND		5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		5.00	
108-05-4	Vinyl acetate	1	ND		10.0	
75-01-4	Vinyl chloride	1	ND		5.00	
	m&p-Xylene	1	ND		10.0	
95-47-6	o-Xylene	1	ND		5.00	

57 compound(s) reported

4/13/2007 14:55:37

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: LF-B-02 (12-14)
Site: None
Project: MS BLUFFS VICKSBURG,MS
Project No.: 2068069
Sample Qu:
Lab ID: 20510815
Matrix: Soil
% Moisture: 16 Corrected
Description: None
Prep Level: Soil
Batch: 84521
Method: 8081 Pests Low Soil
Units: ug/kg
Target List: 8081_SL20
Collected: 03/29/07
Received: 03/30/07
Prep Factor: 1
Prepared: 04/11/07
Analyzed: 04/12/07 16:00 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	10	ND	D2	794.	

1 compound(s) reported

4/13/2007 14:55:40

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: LF-B-02 (12-14)
Site: None
Project: MS BLUFFS VICKSBURG,MS
Project No.: 2068069
Sample Qu:
Lab ID: 20510815
Matrix: Soil
% Moisture: 16 Corrected
Description: None
Prep Level: Soil
Batch: 84196
Method: 8151 Herbs Low Soil
Units: ug/kg
Target List: 8151_SL20
Collected: 03/29/07
Received: 03/30/07
Prep Factor: 1
Prepared: 04/03/07
Analyzed: 04/06/07 11:37 SRA (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	2	618.	D1	159.	

1 compound(s) reported

4/13/2007 14:55:40

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: LF-B-02 (30-32) **Site:** None

Project: MS BLUFFS VICKSBURG,MS **Project No.:** 2068069 **Sample Qu:**

Lab ID: 20510816 **Matrix:** Soil **% Moisture:** 22.5 Corrected

Description: None **Prep Level:** Soil **Batch:** 84521

Method: 8081 Pests Low Soil **Units:** ug/kg **Target List:** 8081_SL20

Collected: 03/29/07 **Received:** 03/30/07

Prep Factor: 1 **Prepared:** 04/11/07 **Analyzed:** 04/12/07 17:00 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		86.1	

1 compound(s) reported

4/13/2007 14:55:40

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: LF-B-02 (30-32)
Site: None
Project: MS BLUFFS VICKSBURG,MS
Project No.: 2068069
Sample Qu:
Lab ID: 20510816
Matrix: Soil
% Moisture: 22.5 Corrected
Description: None
Prep Level: Soil
Batch: 84196
Method: 8151 Herbs Low Soil
Units: ug/kg
Target List: 8151_SL20
Collected: 03/29/07
Received: 03/30/07
Prep Factor: 1
Prepared: 04/03/07
Analyzed: 04/05/07 09:28 SRA (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND		86.1	

1 compound(s) reported

4/13/2007 14:55:40

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: LF-B-03 (12-14) | **Site:** None

Project: MS BLUFFS VICKSBURG,MS | **Project No.:** 2068069 | **Sample Qu:**

Lab ID: 20510817 | **Matrix:** Soil | **% Moisture:** 18.2 Corrected

Description: None | **Prep Level:** Soil | **Batch:** 84521

Method: 8081 Pests Low Soil | **Units:** ug/kg | **Target List:** 8081_SL20

Collected: 03/29/07 | **Received:** 03/30/07

Prep Factor: 1 | **Prepared:** 04/11/07 | **Analyzed:** 04/12/07 17:16 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		81.6	

1 compound(s) reported

4/13/2007 14:55:40

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: LF-B-03 (12-14) | **Site:** None

Project: MS BLUFFS VICKSBURG,MS | **Project No.:** 2068069 | **Sample Qu:**

Lab ID: 20510817 | **Matrix:** Soil | **% Moisture:** 18.2 Corrected

Description: None | **Prep Level:** Soil | **Batch:** 84196

Method: 8151 Herbs Low Soil | **Units:** ug/kg | **Target List:** 8151_SL20

Collected: 03/29/07 | **Received:** 03/30/07

Prep Factor: 1 | **Prepared:** 04/03/07 | **Analyzed:** 04/06/07 12:04 SRA (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	50	25400	D1	4080	

1 compound(s) reported

4/13/2007 14:55:40

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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
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LELAP # 02006

Client ID: LF-B-02 (12-14)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS VICKSBURG,MS
Site: None
Lab ID: 20510815
Project No.: 2068069
Description: None
Matrix: Soil
%Moisture: 16 Corrected
Collected: 03/29/07
Received: 03/30/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	84511	1	ND		mg/kg	1.03	13-Apr-07	13-Apr-07 08:25	KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

4/13/2007 14:55:43

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: LF-B-02 (30-32)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS VICKSBURG,MS
Site: None
Lab ID: 20510816
Project No.: 2068069
Description: None
Matrix: Soil
%Moisture: 22.5 Corrected
Collected: 03/29/07
Received: 03/30/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	84511	1	ND		mg/kg	1.19	13-Apr-07	13-Apr-07 08:45	KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
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For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

4/13/2007 14:55:43

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St. Rose , LA 70087

Phone: 504.469.0333
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LELAP # 02006

Client ID: LF-B-03 (12-14)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS VICKSBURG,MS
Site: None
Lab ID: 20510817
Project No.: 2068069
Description: None
Matrix: Soil
%Moisture: 18.2 Corrected
Collected: 03/29/07
Received: 03/30/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
Arsenic	EPA 6010	84511	1	2.60		mg/kg	1.09	13-Apr-07	13-Apr-07 08:50 KJR (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

4/13/2007 14:55:43

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Report of Quality Control

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Method: EPA 8260 **Project:** 2068069 **LCS:** 20511115 4/9/2007 4:33:00 PM

Batch: 84177 **MS:** 20511532 4/9/2007 6:47:00 PM

Units: ug/L **Original for MS:** 20510750 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Acetone	50	64.39	129	50	0.00	61.61	60.84	123	122	1	22 - 165	11 - 171	20	A11
Acetonitrile	550	698.7	127	550	0.00	753.2	678.5	137	123	10	15 - 171	10 - 182	20	
Acrolein	100	116.7	117	100	0.00	106.1	87.83	106	88	19	10 - 150	10 - 150	20	
Acrylonitrile	150	160.1	107	150	0.00	174.5	163	116	109	7	10 - 150	10 - 150	20	
Allyl chloride	100	97.1	97	100	0.00	97.67	95.11	98	95	3	30 - 155	34 - 153	20	
Benzene	50	53.48	107	50	0.00	51.75	50.97	104	102	2	70 - 135	60 - 144	20	
Bromodichloromethane	50	60.21	120	50	0.00	60.67	60.23	121	121	1	61 - 156	59 - 156	20	
Bromoform	50	73.67	147	50	0.00	73.72	73.28	147	147	1	56 - 154	50 - 153	20	
Bromomethane	50	44.46	89	50	0.00	45.03	42.53	90	85	6	44 - 158	37 - 165	20	
2-Butanone (MEK)	50	59.42	119	50	0.00	60.84	57.49	122	115	6	32 - 157	20 - 168	20	A11
Carbon disulfide	50	44.06	88	50	0.00	45.41	43.55	91	87	4	40 - 147	36 - 152	20	
Carbon tetrachloride	50	58.17	116	50	0.00	57.84	56.65	116	113	2	50 - 166	44 - 170	20	
Chlorobenzene	50	59.77	120	50	0.00	58.06	58.91	116	118	1	73 - 129	67 - 134	20	
Chloroethane	50	50.41	101	50	0.00	48.84	49.46	98	99	1	38 - 163	34 - 170	20	
Chloroform	50	56.21	112	50	0.00	55.93	55.47	112	111	1	71 - 133	64 - 140	20	
Chloromethane	50	34.32	69	50	0.00	30.76	29.23	62	59	5	32 - 149	22 - 163	20	
Chloroprene	50	51.38	103	50	0.00	47.69	47.79	95	96	0	50 - 141	51 - 134	20	
1,2-Dibromo-3-chloropropa	50	55.25	111	50	0.00	58.18	58.21	116	116	0	34 - 145	28 - 150	20	
Dibromochloromethane	50	67.5	135	50	0.00	67.58	67.43	135	135	0	63 - 147	58 - 147	20	
1,2-Dibromoethane (EDB)	50	68.27	137	50	0.00	71.41	67.37	143	135	6	60 - 147	55 - 149	20	
Dibromomethane	50	64.89	130	50	0.00	66.71	63.92	133	128	4	60 - 147	56 - 148	20	
trans-1,4-Dichloro-2-butene	100	121.8	122	100	0.00	103.5	95.3	104	95	8	17 - 178	21 - 164	20	
1,1-Dichloroethane	50	51.78	104	50	0.00	51.12	51.1	102	102	0	64 - 135	59 - 142	20	
1,2-Dichloroethane	50	67.28	135	50	0.00	69.05	66.49	138	133	4	53 - 164	51 - 161	20	
1,1-Dichloroethene	50	53.81	108	50	0.00	53.69	51.35	107	103	4	51 - 143	44 - 152	20	
trans-1,2-Dichloroethene	50	53.27	107	50	0.00	52.77	52.25	106	105	1	59 - 139	56 - 145	20	
1,2-Dichloropropane	50	53.37	107	50	0.00	53.38	52.19	107	104	2	69 - 135	66 - 138	20	
cis-1,3-Dichloropropene	50	61.76	124	50	0.00	62.09	60.5	124	121	3	66 - 141	58 - 142	20	
trans-1,3-Dichloropropene	50	64.92	130	50	0.00	67.11	64.19	134	128	4	57 - 150	50 - 151	20	
1,4-Dioxane (p-Dioxane)	1050	1680	160	1050	0.00	1664	1621	159	154	3	17 - 176	19 - 172	20	
Ethylbenzene	50	54.9	110	50	0.00	51.65	53.09	103	106	3	67 - 132	58 - 138	20	
Ethyl methacrylate	100	136.2	136	100	0.00	139.9	136.3	140	136	3	57 - 143	45 - 170	20	
2-Hexanone	50	63.93	128	50	0.00	63.45	60.22	127	120	5	36 - 154	25 - 163	20	
Iodomethane	50	54.61	109	50	0.00	57.45	55.5	115	111	3	43 - 159	36 - 160	20	
Isobutanol	1050	1376	131	1050	0.00	1383	1210	132	115	13	32 - 160	26 - 169	20	
Methacrylonitrile	550	680	124	550	0.00	709.2	661.5	129	120	7	10 - 171	10 - 167	20	
Methylene chloride	50	53.53	107	50	0.00	57.94	55.89	116	112	4	29 - 159	19 - 158	20	A11
Methyl methacrylate	100	128.2	128	100	0.00	133.9	124.5	134	125	7	52 - 167	11 - 212	20	
4-Methyl-2-pentanone (MI	50	67.46	135	50	0.00	67.56	64.7	135	129	4	13 - 162	10 - 157	20	

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* denotes recovery outside of QC limits.

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

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New Orleans Laboratory

Report of Quality Control

Pace Analytical Services, Inc.
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Phone: 504.469.0333
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LELAP # 02006

Method: EPA 8260 **Project:** 2068069 **LCS:** 20511115 4/9/2007 4:33:00 PM

Batch: 84177 **MS:** 20511532 4/9/2007 6:47:00 PM

Units: ug/L **Original for MS:** 20510750 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Propionitrile	550	708.4	129	550	0.00	745.6	686.8	136	125	8	23 - 159	25 - 158	20	
Styrene	50	61.48	123	50	0.00	59.18	59.78	118	120	1	71 - 134	54 - 144	20	
1,1,1,2-Tetrachloroethane	50	63.14	126	50	0.00	60.82	62.66	122	125	3	73 - 146	65 - 150	20	
1,1,2,2-Tetrachloroethane	50	55.61	111	50	0.00	54.24	52.67	109	105	3	50 - 142	46 - 145	20	
Tetrachloroethene	50	61.84	124	50	0.00	57.34	57.86	115	116	1	42 - 156	39 - 151	20	
Toluene	50	52.72	105	50	0.00	51.62	50.86	103	102	1	72 - 132	64 - 139	20	
1,1,1-Trichloroethane	50	54.63	109	50	0.00	54.77	53.32	110	107	3	65 - 136	59 - 141	20	
1,1,2-Trichloroethane	50	62.07	124	50	0.00	65.09	63.31	130	127	3	67 - 144	60 - 146	20	
Trichloroethene	50	58.78	118	50	0.00	56.48	56.27	113	113	0	69 - 136	61 - 141	20	
Trichlorofluoromethane	50	46.33	93	50	0.00	47.66	48.54	95	97	2	42 - 161	38 - 160	20	
1,2,3-Trichloropropane	50	64.38	129	50	0.00	62.46	59.06	125	118	6	52 - 152	51 - 151	20	
1,2,4-Trimethylbenzene	50	51.65	103	50	0.00	48.73	49.2	98	98	1	59 - 137	41 - 155	20	
1,3,5-Trimethylbenzene	50	50.22	100	50	0.00	46.56	47.4	93	95	2	69 - 135	55 - 150	20	
Vinyl acetate	50	129.8	260 *	50	0.00	130.1	125.2	260 *	250 *	4	21 - 190	10 - 185	20	Q10
Vinyl chloride	50	37.44	75	50	0.00	37.09	35.91	74	72	3	40 - 146	28 - 161	20	
m&p-Xylene	100	112.9	113	100	0.00	108.2	109.6	108	110	1	70 - 129	66 - 132	20	
o-Xylene	50	57.29	115	50	0.00	54.8	56.32	110	113	3	70 - 129	66 - 132	20	

56 compound(s) reported

* denotes recovery outside of QC limits.

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

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LELAP # 02006

Method: EPA 8260 **Project:** 2068069 **LCS:** 20511125 4/4/2007 2:28:00 PM

Batch: 84180 **MS:** 20511126 4/4/2007 7:54:00 PM

Units: ug/kg **Original for MS:** 20510883 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Acetone	50	53.81	108	60.68	0.00	51.53	70	85	108	30 *	11 - 166	10 - 183	20	A11
Acetonitrile	550	1115	203 *	667.5	0.00	792	817.1	119	115	3	22 - 198	50 - 150	20	Q10
Acrolein	100	57.91	58	121.4	0.00	2.294	1.124	2 *	1 *	68 *	10 - 150	10 - 147	20	Q1
Acrylonitrile	150	128.2	86	182	0.00	47.89	59.07	26	31	21 *	10 - 150	10 - 150	20	
Allyl chloride	100	110.4	110	121.4	0.00	77.26	80.39	64	62	4	32 - 170	10 - 163	20	
Benzene	50	52.21	104	60.68	0.00	31.54	32.83	52	51	4	65 - 136	33 - 143	20	
Bromodichloromethane	50	56.28	113	60.68	0.00	22.86	23.01	38	36	1	56 - 157	14 - 155	20	
Bromoform	50	54.83	110	60.68	0.00	10.16	10.06	17	16	1	46 - 156	10 - 152	20	
Bromomethane	50	47.34	95	60.68	0.00	34.16	37.03	56	57	8	41 - 159	14 - 162	20	
2-Butanone (MEK)	50	54.7	109	60.68	0.00	25.4	30.37	42	47	18	17 - 164	10 - 166	20	A11
Carbon disulfide	50	49.54	99	60.68	0.00	38.81	44.08	64	68	13	38 - 150	14 - 148	20	
Carbon tetrachloride	50	49.32	99	60.68	0.00	36.81	40.39	61	63	9	44 - 166	17 - 160	20	
Chlorobenzene	50	51.85	104	60.68	3.19	21.32	20.48	30	27	4	65 - 134	14 - 145	20	
Chloroethane	50	62.05	124	60.68	0.00	43.03	47.26	71	73	9	34 - 166	28 - 158	20	
Chloroform	50	54.02	108	60.68	0.00	33.4	34.53	55	54	3	68 - 134	35 - 141	20	
Chloromethane	50	43.97	88	60.68	0.00	35.07	38.79	58	60	10	21 - 152	10 - 158	20	
Chloroprene	50	53.49	107	60.68	0.00	34.87	32.97	58	51	6	47 - 143	10 - 148	20	
1,2-Dibromo-3-chloropropa	50	51.22	102	60.68	0.00	10.39	11.32	17	18	9	23 - 147	10 - 147	20	
Dibromochloromethane	50	55.2	110	60.68	0.00	14.73	15.06	24	23	2	53 - 150	10 - 153	20	
1,2-Dibromoethane (EDB)	50	59.19	118	60.68	0.00	22.27	21.3	37	33	4	47 - 152	10 - 139	20	
Dibromomethane	50	58.13	116	60.68	0.00	22.42	22.03	37	34	2	55 - 153	34 - 145	20	
trans-1,4-Dichloro-2-butene	100	115.5	116	121.4	0.00	24.16	25.19	20	20	4	11 - 161	10 - 157	20	
1,1-Dichloroethane	50	53.33	107	60.68	0.00	35.52	37.39	59	58	5	61 - 135	36 - 141	20	
1,2-Dichloroethane	50	58.32	117	60.68	0.00	25.9	25.92	43	40	0	46 - 162	15 - 158	20	
1,1-Dichloroethene	50	58.83	118	60.68	0.00	50.02	54.28	82	84	8	50 - 144	31 - 149	20	
trans-1,2-Dichloroethene	50	55.43	111	60.68	0.00	40.63	42.76	67	66	5	56 - 138	29 - 142	20	
1,2-Dichloropropane	50	73.14	146 *	60.68	0.00	28.24	28.01	47	43	1	64 - 136	28 - 141	20	Q10
cis-1,3-Dichloropropene	50	57.02	114	60.68	0.00	23.6	23.19	39	36	2	58 - 142	10 - 145	20	
trans-1,3-Dichloropropene	50	59.33	119	60.68	0.00	21.27	19.04	35	30	11	47 - 152	10 - 149	20	
1,4-Dioxane (p-Dioxane)	1050	1463	139	1274	0.00	2519	2597	198 *	191	3	24 - 168	10 - 193	20	Q1
Ethylbenzene	50	51.65	103	60.68	0.00	22.85	22.53	38	35	1	62 - 134	11 - 144	20	
Ethyl methacrylate	100	119.6	120	121.4	0.00	39.02	39.46	32 *	31 *	1	70 - 130	70 - 130	20	Q1
2-Hexanone	50	47.75	96	60.68	0.00	16.93	17.87	28	28	5	22 - 162	10 - 165	20	
Iodomethane	50	51.64	103	60.68	0.00	37.1	38.54	61	60	4	10 - 233	10 - 229	20	
Isobutanol	1050	890.1	85	1274	0.00	817.6	895.5	64	66	9	14 - 161	10 - 167	20	
Methacrylonitrile	550	643.3	117	667.5	0.00	212.1	214.1	32 *	30 *	1	10 - 174	50 - 150	20	Q1
Methylene chloride	50	56.4	113	60.68	0.00	33.68	34.74	56	54	3	23 - 161	10 - 146	20	A11
Methyl methacrylate	100	116.7	117	121.4	0.00	37.18	38.36	31 *	30 *	3	70 - 130	70 - 130	20	Q1
4-Methyl-2-pentanone (MI	50	58.94	118	60.68	0.00	19.04	20.22	31	31	6	10 - 167	10 - 150	20	

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* denotes recovery outside of QC limits.

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

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Pace Analytical
New Orleans Laboratory

Report of Quality Control

Pace Analytical Services, Inc.
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LELAP # 02006

Method: EPA 8260 **Project:** 2068069 **LCS:** 20511125 4/4/2007 2:28:00 PM

Batch: 84180 **MS:** 20511126 4/4/2007 7:54:00 PM

Units: ug/kg **Original for MS:** 20510883 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Propionitrile	550	660.3	120	667.5	0.00	299.4	311.6	45	44	4	10 - 174	10 - 137	20	
Styrene	50	53.85	108	60.68	0.00	11.52	9.289	19	14	21 *	64 - 138	10 - 145	20	
1,1,1,2-Tetrachloroethane	50	53.2	106	60.68	0.00	19.66	19.55	32	30	1	56 - 154	10 - 162	20	
1,1,2,2-Tetrachloroethane	50	62.99	126	60.68	0.00	15.32	15.8	25	25	3	41 - 144	10 - 162	20	
Tetrachloroethene	50	52.82	106	60.68	0.00	27.34	28.84	45	45	5	30 - 161	10 - 179	20	
Toluene	50	51.57	103	60.68	0.00	28.34	28.79	47	45	2	65 - 135	21 - 147	20	
1,1,1-Trichloroethane	50	50.97	102	60.68	0.00	39.19	42.07	65	65	7	57 - 139	32 - 144	20	
1,1,2-Trichloroethane	50	53.31	107	60.68	0.00	21.43	21.55	35	33	1	59 - 145	13 - 150	20	
Trichloroethene	50	53.82	108	60.68	0.00	32.45	34.33	54	53	6	64 - 139	24 - 152	20	
Trichlorofluoromethane	50	62.42	125	60.68	0.00	45.95	55.87	76	87	19	39 - 157	20 - 153	20	
1,2,3-Trichloropropane	50	66.89	134	60.68	0.00	17.58	19.63	29	30	11	42 - 150	21 - 138	20	
1,2,4-Trimethylbenzene	50	56.01	112	60.68	0.00	15.79	15.97	26 *	25 *	1	62 - 145	43 - 124	20	Q1
1,3,5-Trimethylbenzene	50	53.68	107	60.68	0.00	18.75	19.5	31 *	30 *	4	58 - 151	70 - 130	20	Q1
Vinyl acetate	50	62.3	125	60.68	0.00	21.24	20.58	35 *	32 *	3	10 - 210	50 - 150	20	Q1
Vinyl chloride	50	45.77	92	60.68	0.00	40.53	44.7	67	69	10	33 - 145	15 - 153	20	
m&p-Xylene	100	102	102	121.4	0.00	42.26	41.41	35	32	2	60 - 138	10 - 147	20	
o-Xylene	50	50.24	100	60.68	0.00	19.37	18.91	32	29	2	62 - 139	10 - 149	20	

56 compound(s) reported

* denotes recovery outside of QC limits.

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

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LELAP # 02006

Method: EPA 8270 **Project:** 2068069 **LCS:** 20512703 4/11/2007 9:28:00 PM

Batch: 84447 **MS:** 20512704 4/11/2007 9:57:00 PM

Units: ug/kg **Original for MS:** 20510652 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Acetophenone	1667	1058	64	1667	0.00	1093	1029	66	62	6	40 - 120	40 - 120	20	
bis(2-Ethylhexyl)phthalate	1667	1185	71	1667	0.00	1091	686.7	65	41	45 *	41 - 125	14 - 144	20	
4-Nitrophenol	1667	1130	68	1667	0.00	520.3	228.3	31	14	78 *	30 - 132	10 - 138	20	
Pentachlorophenol	1667	1144	69	1667	0.00	933.7	889.7	56	53	5	28 - 122	10 - 142	20	

4 compound(s) reported

* denotes recovery outside of QC limits.

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

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Report of Batch Surrogate Recovery

Pace Analytical Services, Inc.
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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Report: 2068069 **Batch: 84177**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20510818	Sample	105	105	99					
20511114	BLANK	100	118	99					
20511115	LCS	98	105	102					
20511532	MS	94	110	104					
20511533	MSD	96	108	102					
	QC limits:	71-129	68-124	74-122					

Sur 1: 4-Bromofluorobenzene (S)
Sur 2: Dibromofluoromethane (S)
Sur 3: Toluene-d8 (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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Phone: 504.469.0333
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LELAP # 02006

Report: 2068069 **Batch: 84180**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20510815	Sample	111	110	108					
20510816	Sample	106	113	106					
20510817	Sample	105	112	107					
20510883	OQS	113	113	106					
20511124	BLANK	130	113	106					
20511125	LCS	114	102	107					
20511126	MS	133	119	107					
20511127	MSD	141	117	106					
	QC limits:	55-154	57-136	64-129					

Sur 1: 4-Bromofluorobenzene (S)
Sur 2: Dibromofluoromethane (S)
Sur 3: Toluene-d8 (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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LELAP # 02006

Report: 2068069 **Batch: 84447**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20510815	Sample	34	40	33	38	36	39		
20510816	Sample	25	64	53	59	53	64		
20510817	Sample	41	56	48	54	53	55		
20512702	BLANK	57	63	54	63	59	74		
20512703	LCS	66	66	56	53	63	66		
20512704	MS	61	63	54	45	56	58		
20512705	MSD	50	52	53	18	56	39		
QC limits:		10-127	18-116	10-109	10-121	20-107	30-113		

Sur 1: 2,4,6-Tribromophenol (S)
Sur 2: 2-Fluorobiphenyl (S)
Sur 3: 2-Fluorophenol (S)
Sur 4: Nitrobenzene-d5 (S)
Sur 5: Phenol-d5 (S)
Sur 6: Terphenyl-d14 (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

Report of Method Blank

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20511114

Description: 8260 VOAs Full List Water BLK **Project No.:** 2068069

Method: EPA 8260 **Batch:** 84177 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 09-Apr-07 **Analyzed:** 04/09/07 16:11 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
67-64-1	Acetone	1	ND	A11	10.0
75-05-8	Acetonitrile	1	ND		100.
107-02-8	Acrolein	1	ND		20.0
107-13-1	Acrylonitrile	1	ND		20.0
107-05-1	Allyl chloride	1	ND		10.0
71-43-2	Benzene	1	ND		5.00
75-27-4	Bromodichloromethane	1	ND		5.00
75-25-2	Bromoform	1	ND		5.00
74-83-9	Bromomethane	1	ND		5.00
78-93-3	2-Butanone (MEK)	1	ND	A11	10.0
75-15-0	Carbon disulfide	1	ND		5.00
56-23-5	Carbon tetrachloride	1	ND		5.00
108-90-7	Chlorobenzene	1	ND		5.00
75-00-3	Chloroethane	1	ND		5.00
67-66-3	Chloroform	1	ND		5.00
74-87-3	Chloromethane	1	ND		5.00
126-99-8	Chloroprene	1	ND		5.00
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.00
124-48-1	Dibromochloromethane	1	ND		5.00
106-93-4	1,2-Dibromoethane (EDB)	1	ND		5.00
74-95-3	Dibromomethane	1	ND		5.00
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		5.00
75-71-8	Dichlorodifluoromethane	1	ND		5.00
75-34-3	1,1-Dichloroethane	1	ND		5.00
107-06-2	1,2-Dichloroethane	1	ND		5.00
75-35-4	1,1-Dichloroethene	1	ND		5.00
156-59-2	cis-1,2-Dichloroethene	1	ND		5.00
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00
78-87-5	1,2-Dichloropropane	1	ND		5.00
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		250.
100-41-4	Ethylbenzene	1	ND		5.00
97-63-2	Ethyl methacrylate	1	ND		10.0
591-78-6	2-Hexanone	1	ND		10.0
74-88-4	Iodomethane	1	ND		5.00

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ND denotes Not Detected at or above the reporting limit.
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Pace Analytical Services, Inc.
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Phone: 504.469.0333
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LELAP # 02006

Lab ID: 20511114
Description: 8260 VOAs Full List Water BLK **Project No.:** 2068069
Method: EPA 8260 **Batch:** 84177 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 09-Apr-07 **Analyzed:** 04/09/07 16:11 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
78-83-1	Isobutanol	1	ND		250.
98-82-8	Isopropylbenzene (Cumene)	1	ND		5.00
126-98-7	Methacrylonitrile	1	ND		100.
79-20-9	Methyl acetate	1	ND		10.0
75-09-2	Methylene chloride	1	ND	A11	5.00
80-62-6	Methyl methacrylate	1	ND		10.0
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0
1634-04-4	Methyl-tert-butyl ether	1	ND		5.00
107-12-0	Propionitrile	1	ND		20.0
100-42-5	Styrene	1	ND		5.00
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.00
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00
127-18-4	Tetrachloroethene	1	ND		5.00
108-88-3	Toluene	1	ND		5.00
71-55-6	1,1,1-Trichloroethane	1	ND		5.00
79-00-5	1,1,2-Trichloroethane	1	ND		5.00
79-01-6	Trichloroethene	1	ND		5.00
75-69-4	Trichlorofluoromethane	1	ND		5.00
96-18-4	1,2,3-Trichloropropane	1	ND		5.00
95-63-6	1,2,4-Trimethylbenzene	1	ND		5.00
108-67-8	1,3,5-Trimethylbenzene	1	ND		5.00
108-05-4	Vinyl acetate	1	ND		10.0
75-01-4	Vinyl chloride	1	ND		5.00
	m&p-Xylene	1	ND		10.0
95-47-6	o-Xylene	1	ND		5.00

61 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
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Report of Method Blank

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Phone: 504.469.0333
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LELAP # 02006

Lab ID: 20511124

Description: 8260 VOAs Full List Low, BLK **Project No.:** 2068069

Method: EPA 8260 **Batch:** 84180 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 04-Apr-07 **Analyzed:** 04/04/07 13:41 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
67-64-1	Acetone	1	ND	A11	10.0
75-05-8	Acetonitrile	1	ND		100.
107-02-8	Acrolein	1	ND		20.0
107-13-1	Acrylonitrile	1	ND		20.0
107-05-1	Allyl chloride	1	ND		10.0
71-43-2	Benzene	1	ND		5.00
75-27-4	Bromodichloromethane	1	ND		5.00
75-25-2	Bromoform	1	ND		5.00
74-83-9	Bromomethane	1	ND		5.00
78-93-3	2-Butanone (MEK)	1	ND	A11	10.0
75-15-0	Carbon disulfide	1	ND		5.00
56-23-5	Carbon tetrachloride	1	ND		5.00
108-90-7	Chlorobenzene	1	ND		5.00
75-00-3	Chloroethane	1	ND		5.00
67-66-3	Chloroform	1	ND		5.00
74-87-3	Chloromethane	1	ND		5.00
126-99-8	Chloroprene	1	ND		5.00
110-82-7	Cyclohexane	1	ND		5.00
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.00
124-48-1	Dibromochloromethane	1	ND		5.00
106-93-4	1,2-Dibromoethane (EDB)	1	ND		5.00
74-95-3	Dibromomethane	1	ND		5.00
95-50-1	1,2-Dichlorobenzene	1	ND		5.00
541-73-1	1,3-Dichlorobenzene	1	ND		5.00
106-46-7	1,4-Dichlorobenzene	1	ND		5.00
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		5.00
75-71-8	Dichlorodifluoromethane	1	ND		5.00
75-34-3	1,1-Dichloroethane	1	ND		5.00
107-06-2	1,2-Dichloroethane	1	ND		5.00
75-35-4	1,1-Dichloroethene	1	ND		5.00
156-59-2	cis-1,2-Dichloroethene	1	ND		5.00
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00
78-87-5	1,2-Dichloropropane	1	ND		5.00
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		250.

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Phone: 504.469.0333
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LELAP # 02006

Lab ID: 20511124

Description: 8260 VOAs Full List Low, BLK **Project No.:** 2068069

Method: EPA 8260 **Batch:** 84180 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 04-Apr-07 **Analyzed:** 04/04/07 13:41 RMP (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
100-41-4	Ethylbenzene	1	ND		5.00
97-63-2	Ethyl methacrylate	1	ND		10.0
591-78-6	2-Hexanone	1	ND		10.0
74-88-4	Iodomethane	1	ND		5.00
78-83-1	Isobutanol	1	ND		250.
98-82-8	Isopropylbenzene (Cumene)	1	ND		5.00
126-98-7	Methacrylonitrile	1	ND		100.
79-20-9	Methyl acetate	1	ND		10.0
108-87-2	Methylcyclohexane	1	ND		10.0
75-09-2	Methylene chloride	1	2.80	J A11	5.00
80-62-6	Methyl methacrylate	1	ND		10.0
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0
1634-04-4	Methyl-tert-butyl ether	1	ND		5.00
107-12-0	Propionitrile	1	ND		20.0
100-42-5	Styrene	1	ND		5.00
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.00
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00
127-18-4	Tetrachloroethene	1	ND		5.00
108-88-3	Toluene	1	ND		5.00
120-82-1	1,2,4-Trichlorobenzene	1	ND		5.00
71-55-6	1,1,1-Trichloroethane	1	ND		5.00
79-00-5	1,1,2-Trichloroethane	1	ND		5.00
79-01-6	Trichloroethene	1	ND		5.00
75-69-4	Trichlorofluoromethane	1	ND		5.00
96-18-4	1,2,3-Trichloropropane	1	ND		5.00
76-13-1	1,1,2-Trichlorotrifluoroethane	1	ND		5.00
95-63-6	1,2,4-Trimethylbenzene	1	ND		5.00
108-67-8	1,3,5-Trimethylbenzene	1	ND		5.00
108-05-4	Vinyl acetate	1	ND		10.0
75-01-4	Vinyl chloride	1	ND		5.00
	m&p-Xylene	1	ND		10.0
95-47-6	o-Xylene	1	ND		5.00

68 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
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Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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St. Rose, LA 70087

Phone: 504.469.0333
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LELAP # 02006

Lab ID: 20512702

Description: 8270 SVOAs Low Soil **Project No.:** 2068069

Method: EPA 8270 **Batch:** 84447 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 10-Apr-07 **Analyzed:** 04/11/07 20:59 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
83-32-9	Acenaphthene	1	ND		330.
208-96-8	Acenaphthylene	1	ND		330.
98-86-2	Acetophenone	1	ND		330.
120-12-7	Anthracene	1	ND		330.
1912-24-9	Atrazine	1	ND		330.
92-87-5	Benzidine	1	ND		1000
56-55-3	Benzo(a)anthracene	1	ND		330.
205-99-2	Benzo(b)fluoranthene	1	ND		330.
207-08-9	Benzo(k)fluoranthene	1	ND		330.
191-24-2	Benzo(g,h,i)perylene	1	ND		330.
50-32-8	Benzo(a)pyrene	1	ND		330.
101-55-3	4-Bromophenylphenyl ether	1	ND		330.
85-68-7	Butylbenzylphthalate	1	ND		330.
59-50-7	4-Chloro-3-methylphenol	1	ND		330.
111-91-1	bis(2-Chloroethoxy)methane	1	ND		330.
111-44-4	bis(2-Chloroethyl) ether	1	ND		330.
91-58-7	2-Chloronaphthalene	1	ND		330.
95-57-8	2-Chlorophenol	1	ND		330.
7005-72-3	4-Chlorophenylphenyl ether	1	ND		330.
218-01-9	Chrysene	1	ND		330.
21725-46-2	Cyanazine	1	ND		330.
53-70-3	Dibenz(a,h)anthracene	1	ND		330.
95-50-1	1,2-Dichlorobenzene	1	ND		330.
541-73-1	1,3-Dichlorobenzene	1	ND		330.
106-46-7	1,4-Dichlorobenzene	1	ND		330.
91-94-1	3,3'-Dichlorobenzidine	1	ND		667.
120-83-2	2,4-Dichlorophenol	1	ND		330.
84-66-2	Diethylphthalate	1	ND		330.
57-97-6	7,12-Dimethylbenz(a)anthracene	1	ND		330.
105-67-9	2,4-Dimethylphenol	1	ND		330.
131-11-3	Dimethylphthalate	1	ND		330.
84-74-2	Di-n-butylphthalate	1	ND		330.
534-52-1	4,6-Dinitro-2-methylphenol	1	ND		330.
51-28-5	2,4-Dinitrophenol	1	ND		330.
121-14-2	2,4-Dinitrotoluene	1	ND		330.
606-20-2	2,6-Dinitrotoluene	1	ND		330.

4/13/2007 14:55:54

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Report of Method Blank

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20512702
Description: 8270 SVOAs Low Soil **Project No.:** 2068069
Method: EPA 8270 **Batch:** 84447 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 10-Apr-07 **Analyzed:** 04/11/07 20:59 JAM (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
117-84-0	Di-n-octylphthalate	1	ND		330.
122-66-7	1,2-Diphenylhydrazine	1	ND		330.
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		330.
206-44-0	Fluoranthene	1	ND		330.
86-73-7	Fluorene	1	ND		330.
87-68-3	Hexachloro-1,3-butadiene	1	ND		330.
118-74-1	Hexachlorobenzene	1	ND		330.
77-47-4	Hexachlorocyclopentadiene	1	ND		330.
67-72-1	Hexachloroethane	1	ND		330.
193-39-5	Indeno(1,2,3-cd)pyrene	1	ND		330.
78-59-1	Isophorone	1	ND		330.
95-48-7	2-Methylphenol (o-Cresol)	1	ND		330.
106-44-5	4-Methylphenol (p-Cresol)	1	ND	A7	330.
91-20-3	Naphthalene	1	ND		330.
98-95-3	Nitrobenzene	1	ND		330.
88-75-5	2-Nitrophenol	1	ND		330.
100-02-7	4-Nitrophenol	1	ND		330.
62-75-9	N-Nitrosodimethylamine	1	ND		330.
621-64-7	N-Nitroso-di-n-propylamine	1	ND		330.
86-30-6	N-Nitrosodiphenylamine	1	ND	A10	330.
108-60-1	2,2'-Oxybis(1-chloropropane)	1	ND		330.
87-86-5	Pentachlorophenol	1	ND		330.
85-01-8	Phenanthrene	1	ND		330.
108-95-2	Phenol	1	ND		330.
129-00-0	Pyrene	1	ND		330.
110-86-1	Pyridine	1	ND		330.
120-82-1	1,2,4-Trichlorobenzene	1	ND		330.
88-06-2	2,4,6-Trichlorophenol	1	ND		330.

64 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Report of Quality Control

Pace Analytical Services, Inc.
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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Method: EPA 8151 **Project:** 2068069 **LCS:** 20511220 4/4/2007 11:54:00 PM

Batch: 84196 **MS:** 20511221 4/6/2007 12:59:00 PM

Units: ug/kg **Original for MS:** 20509172 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Dinoseb	166.7	196.7	118	195.5	0.00	200.7	218.9	103	112	9	10 - 188	10 - 189	20	

1 compound(s) reported

* denotes recovery outside of QC limits.

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

4/13/2007 14:55:57

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Report of Batch Surrogate Recovery

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Phone: 504.469.0333
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LELAP # 02006

Report: 2068069 **Batch: 84196**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20509172	OQS	38	46						
20510815	Sample D1	137	157						
20510816	Sample	44	43						
20510817	Sample D1	66	52						
20511219	BLANK	48	49						
20511220	LCS	109	108						
20511221	MS	63	71						
20511222	MSD	32	35						
	QC limits:	10-191	10-191						

Sur 1: 2,4-DCPA (Conf)(S)
Sur 2: 2,4-DCPA (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

4/13/2007 14:56:00

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environment - E-10266
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Report of Batch Surrogate Recovery

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Report: 2068069 **Batch: 84521**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20510815	Sample D2	106	87	0 D	433 D				
20510816	Sample	156	66	66	71				
20510817	Sample	107	91	80	90				
20512972	BLANK	105	105	91	89				
20512973	LCS	96	101	86	84				
20512974	MS D2,Q	168	97	0 D	76				
20512975	MSD D2,Q	3710 D	94	0 D	49				
	QC limits:	15-172	15-172	10-151	10-151				

Sur 1: Decachlorobiphenyl (Conf)(S)
Sur 2: Decachlorobiphenyl (S)
Sur 3: Tetrachloro-m-xylene (Conf)(S)
Sur 4: Tetrachloro-m-xylene (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

4/13/2007 14:56:00

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Report of Method Blank

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20511219
Description: 8151 Herbs Low Soil **Project No.:** 2068069
Method: EPA 8151 **Batch:** 84196 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 03-Apr-07 **Analyzed:** 04/04/07 23:26 SRA (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
94-75-7	2,4-D	1	ND		66.7
127-20-8	Dalapon	1	ND		333.
94-82-6	2,4-DB	1	ND		167.
1918-00-9	Dicamba	1	ND		66.7
120-36-5	Dichloroprop	1	ND		66.7
88-85-7	Dinoseb	1	ND		66.7
94-74-6	MCPA	1	ND		6670
7085-19-0	MCPP	1	ND		6670
93-76-5	2,4,5-T	1	ND		66.7
93-72-1	2,4,5-TP (Silvex)	1	ND		66.7

10 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

4/13/2007 14:56:03

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Report of Method Blank

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20512972
Description: 8081 Pests Low Soil **Project No.:** 2068069
Method: EPA 8081 **Batch:** 84521 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 11-Apr-07 **Analyzed:** 04/12/07 15:27 SLF (1)

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
309-00-2	Aldrin	1	ND		1.70
319-84-6	alpha-BHC	1	ND		1.70
319-85-7	beta-BHC	1	ND		1.70
319-86-8	delta-BHC	1	ND		1.70
58-89-9	gamma-BHC (Lindane)	1	ND		1.70
57-74-9	Chlordane	1	ND		3.33
72-54-8	4,4'-DDD	1	ND		3.33
72-55-9	4,4'-DDE	1	ND		3.33
50-29-3	4,4'-DDT	1	ND		3.33
60-57-1	Dieldrin	1	ND		3.33
959-98-8	Endosulfan I	1	ND		1.70
33213-65-9	Endosulfan II	1	ND		3.33
1031-07-8	Endosulfan sulfate	1	ND		3.33
72-20-8	Endrin	1	ND		3.33
7421-93-4	Endrin aldehyde	1	ND		3.33
76-44-8	Heptachlor	1	ND		1.70
1024-57-3	Heptachlor epoxide	1	ND		1.70
8001-35-2	Toxaphene	1	ND		66.7

18 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

4/13/2007 14:56:04

New Orleans Laboratory Certifications
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U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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New Orleans Laboratory

Report of Quality Control

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2068069

Parameter	Batch	Blank	ARL	Units	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Arsenic	84511	ND	1.00	mg/kg	100	87.76	88	91.59	0.00	72.78	94.5	80	81	26 *	71 - 131	46 - 137	20	

* denotes recovery outside of QC limits.
ARL denotes Adjusted Reporting Limit , corrected for sample size, dilution and moisture content as applicable.
MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

4/13/2007 14:56:06

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health .Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

2068069

Page: 1 of 1

Section A Required Client Information:

Company: ARCADIS	
Address: 10352 Plaza Americana Drive	
Baton Rouge, Louisiana 70816	
Email To: Craig.Derouen@arcadis-us.com; Jane.Kennedy@arcadis-us.com	
Phone: (225) 292-1004 Fax: (225) 218-9677	
Requested Due Date/TAT:	

Section B Required Project Information:

Report To: Craig Derouen	
Copy To: Jane Kennedy	
Purchase Order No.:	
Project Name: MS Bluffs (Vicksburg, MS)	
Project Number: LA002656.0001	

Section C Invoice Information:

Attention: ARCADIS - Accounts Payable	
Company Name: ARCADIS	
Address: 10352 Plaza Americana; Baton Rouge, LA 70819	
Pace Quote Reference:	
Pace Project Manager: Cindy Olavesen	
Pace Profile #: 3271	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER MDEQ TRGs

SITE LOCATION ☐ GA ☐ IL ☐ IN ☐ MI ☐ NC ☐ OH ☐ SC ☐ WI ☑ OTHER MS

Section D Required Client Information

SAMPLE ID
One Character per box.
(A-Z, 0-9 / ,-)
Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G-GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis: 8260	8270	8081-TOXAPHENE	8151-DINOSEB	ARSENIC	Pace Project Number / Lab I.D.
1	LF-B-02(12-14)	SL	G	03/29/07			1230		3									1	1	1	1	1	265085 15
2	LF-B-02(30-32)	SL	G	03/29/07			1330		3									1	1	1	1	1	816
3	LF-B-03(12-14)	SL	G	03/29/07			1500		3									1	1	1	1	1	817
4	TB-01(03/29/07)	WT	G	03/29/07					2									1					818
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

Additional Comments:

MDEQ Tier 1 TRG Detection Limits

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Geoge E Cook	03/30/07	1435	Dennis Lee Pace	3/30/07	1435
[signature]	3/30/07	1555	M. Miller Pace	3-30-07	1555

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
	Y/N	Y/N	Y/N
3.4	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Geoge E Cook

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM / DD / YY): 03/30/07

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

2068069

Page: 1 of 1

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Pace Profile #: 3271	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER MDEQ TRGs

SITE LOCATION: ☐ GA ☐ IL ☐ IN ☐ MI ☐ NC ☐ OH ☐ SC ☑ WI ☐ OTHER MS

Section D — **Required** Client Information

SAMPLE ID
One Character per box.
(A-Z, 0-9 / ,-)
Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis: 8260	Trim (a-c)	8270	8081-TOXAPHENE	8151-DINOSEB	ARSENIC	Pace Project Number / Lab I.D.
1	LF-B-02(12-14)	SL	G	03/29/07			1230		3									1	1	1	1	1	2651815
2	LF-B-02(30-32)	SL	G	03/29/07			1330		3									1	1	1	1	1	816
3	LF-B-03(12-14)	SL	G	03/29/07			1500		3									1	1	1	1	1	817
4	TB-01(032907)	WT	G	03/29/07					2									1					818
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

Additional Comments:

MDEQ Tier 1 TRG Detection Limits

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Goose E Cook	03/30/07	1435	Dawn Thompson Pace	3/30/07	1435		Y/N	Y/N	Y/N
Dawn Thompson	3/30/07	1555	M. Mullins Pace	3/30/07	1555	3.4	Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Goose E Cook

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM / DD / YY): 03/30/07

Temp in °C | Received on Ice | Custody Sealed Cooler | Samples Intact

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Saint Rose, LA 70087

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LELAP # 02006

RECEIVED
APR 16 2007
ARCADIS Geraghty & Miller

April 20, 2007

Craig Derouen
Arcadis Geraghty & Miller
10352 Plaza Americana Drive
Baton Rouge, LA 70816

RE: Project: 2068284
RE: Project ID: MS BLUFFS/LA002656.0001

Dear Craig Derouen:

Enclosed are the analytical results for sample(s) received by the laboratory on April 06, 2007. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Cindy Olavesen

Cindy Olavesen

ACCREDITED IN ACCORDANCE WITH nelac

REPORT OF LABORATORY ANALYSIS

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Report of Laboratory Analysis

Project Number: 2068284

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4/20/2007 13:13:38

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Sample Cross Reference Report

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.0001

Project No.: 2068284

Sample ID	Lab ID	Matrix	Collection Date/Time		Received Date/Time	
LF-B-04 (5-6')	20512321	Soil	04/02/2007	10:00	04/06/2007	10:15
LF-B-04 (22-24')	20512322	Soil	04/02/2007	14:10	04/06/2007	10:15
TRIP BLANK	20512372	Water	04/02/2007		04/06/2007	10:15

4/20/2007 13:13:42

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Project Narrative

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: **2068284**

Narrative detail for GC semi-volatilves analyses:

The herbicide method blank associated with samples 20512321 and 20512322 had a hit for dinoseb. Sample 20512321 had a significant hit for this analyte, greater than 10 times the blank concentration, and required no corrective action.

Sample 20512322 also had a hit for dinoseb, at a level similar to that of the method blank. Due to the possibility of cross contamination from sample 20512321, the 20512322 result for dinoseb was based on the 8270 analysis.

Narrative detail for GC/MS semi-volatilves analyses:

Because there was a hit for dinoseb in the herbicide method blank associated with sample 20512322, the laboratory reported dinoseb based on the 8270 analysis; dinoseb was included in the GCMS initial and verification calibrations.

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Project Narrative

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2068284

Sample Receipt Condition:

All samples were received in accordance with EPA protocol.

Holding Times:

All holding times were met.

Blanks:

The following blank results were above reporting limits:

Batch 84355 sample 20512984 Dinoseb

Laboratory Control Samples:

LCS recoveries outside of QC limits are qualified in the Report of Quality Control section.

Matrix Spikes and Duplicates:

MS or MSD recoveries outside of QC limits are qualified in the Report of Quality Control section.

Surrogates:

Surrogate recoveries outside of QC limits are qualified in the surrogate results section.

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Project Narrative

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LELAP # 02006

Project: 2068284

Analytical Method	Batch	Sample used for QC
EPA 8151	84355	Project sample LF-B-04 (5-6')
EPA 8081	84521	Client sample LF-B-02 (12-14) from project 2068069
EPA 6010	84511	Client sample LF-B-02 (12-14) from project 2068069
EPA 8270	84524	Batch sample from another client
EPA 8260	84399	Batch sample from another client
% Moisture	84519	Batch sample from another client

For the sample used as the original for the DUP or MS/MSD for the batch:

Project sample means a sample from this project was used.
Client sample means a sample from the same client but in a different project was used.
Batch sample means a sample from the a different client was used.

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Report of Laboratory Analysis

Pace Analytical Services, Inc.
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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: LF-B-04 (5-6')
Site: None
Project: MS BLUFFS/LA002656.0001
Project No.: 2068284
Sample Qu:
Lab ID: 20512321
Matrix: Soil
% Moisture: 25.8 Corrected
Description: None
Prep Level: Soil
Batch: 84489
Method: 8260 VOAs Med Soil
Units: ug/kg
Target List: 8260M SL20
Collected: 04/02/07
Received: 04/06/07
Prep Factor: 1
Prepared: 04/06/07
Analyzed: 04/17/07 12:42 RMP

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	500	ND	D2,P5	120000	326000	
75-05-8	Acetonitrile	500	ND	D2,P5		3260000	
107-02-8	Acrolein	500	ND	D2,P5		652000	
107-13-1	Acrylonitrile	500	ND	D2,P5		652000	
107-05-1	Allyl chloride	500	ND	D2,P5	21100	326000	
71-43-2	Benzene	500	ND	D2,P5	2610	163000	
75-27-4	Bromodichloromethane	500	ND	D2,P5	3730	163000	
75-25-2	Bromoform	500	ND	D2,P5	9320	163000	
74-83-9	Bromomethane	500	ND	D2,P5	6670	163000	
78-93-3	2-Butanone (MEK)	500	ND	D2,P5	50100	326000	
75-15-0	Carbon disulfide	500	ND	D2,P5	4120	163000	
56-23-5	Carbon tetrachloride	500	4830000	D2,P5	5070	163000	
108-90-7	Chlorobenzene	500	ND	D2,P5	4630	163000	
75-00-3	Chloroethane	500	ND	D2,P5	8850	163000	
67-66-3	Chloroform	500	ND	D2,P5	2910	163000	
74-87-3	Chloromethane	500	ND	D2,P5	7550	163000	
126-99-8	Chloroprene	500	ND	D2,P5	25700	163000	
96-12-8	1,2-Dibromo-3-chloropropane	500	ND	D2,P5		163000	
124-48-1	Dibromochloromethane	500	ND	D2,P5	5700	163000	
106-93-4	1,2-Dibromoethane (EDB)	500	ND	D2,P5	6650	163000	
74-95-3	Dibromomethane	500	ND	D2,P5	9460	163000	
110-57-6	trans-1,4-Dichloro-2-butene	500	ND	D2,P5		163000	
75-71-8	Dichlorodifluoromethane	500	ND	D2,P5		163000	
75-34-3	1,1-Dichloroethane	500	ND	D2,P5	4700	163000	
107-06-2	1,2-Dichloroethane	500	ND	D2,P5	4620	163000	
75-35-4	1,1-Dichloroethene	500	ND	D2,P5	10000	163000	
156-60-5	trans-1,2-Dichloroethene	500	ND	D2,P5	5080	163000	
78-87-5	1,2-Dichloropropane	500	ND	D2,P5	20700	163000	
10061-01-5	cis-1,3-Dichloropropene	500	ND	D2,P5	4970	163000	
10061-02-6	trans-1,3-Dichloropropene	500	ND	D2,P5	3170	163000	
123-91-1	1,4-Dioxane (p-Dioxane)	500	ND	D2,P5	1380000	8150000	
100-41-4	Ethylbenzene	500	ND	D2,P5	546.	163000	
97-63-2	Ethyl methacrylate	500	ND	D2,P5	24800	326000	

4/20/2007 13:14:18

ND denotes Not Detected at or above the adjusted reporting limit.
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New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
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Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

Pace Analytical
New Orleans Laboratory

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: LF-B-04 (5-6')
Site: None
Project: MS BLUFFS/LA002656.0001
Project No.: 2068284
Sample Qu:
Lab ID: 20512321
Matrix: Soil
% Moisture: 25.8 Corrected
Description: None
Prep Level: Soil
Batch: 84489
Method: 8260 VOAs Med Soil
Units: ug/kg
Target List: 8260M SL20
Collected: 04/02/07
Received: 04/06/07
Prep Factor: 1
Prepared: 04/06/07
Analyzed: 04/17/07 12:42 RMP

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	500	ND	D2,P5	71700	326000	
74-88-4	Iodomethane	500	ND	D2,P5	7040	163000	
78-83-1	Isobutanol	500	ND	D2,P5	926000	8150000	
126-98-7	Methacrylonitrile	500	ND	D2,P5	626000	3260000	
75-09-2	Methylene chloride	500	ND	D2,,P5	29100	163000	
80-62-6	Methyl methacrylate	500	ND	D2,P5	5540	326000	
108-10-1	4-Methyl-2-pentanone (MIBK)	500	ND	D2,P5	18400	326000	
107-12-0	Propionitrile	500	ND	D2,P5		652000	
100-42-5	Styrene	500	ND	D2,P5	3420	163000	
630-20-6	1,1,1,2-Tetrachloroethane	500	ND	D2,P5	5610	163000	
79-34-5	1,1,2,2-Tetrachloroethane	500	ND	D2,P5	7040	163000	
127-18-4	Tetrachloroethene	500	ND	D2,P5	5150	163000	
108-88-3	Toluene	500	ND	D2,P5	2910	163000	
71-55-6	1,1,1-Trichloroethane	500	ND	D2,P5	4930	163000	
79-00-5	1,1,2-Trichloroethane	500	ND	D2,P5	5510	163000	
79-01-6	Trichloroethene	500	ND	D2,P5	5640	163000	
75-69-4	Trichlorofluoromethane	500	ND	D2,P5	16100	163000	
96-18-4	1,2,3-Trichloropropane	500	ND	D2,P5	11300	163000	
95-63-6	1,2,4-Trimethylbenzene	500	ND	D2,P5	5220	163000	
108-67-8	1,3,5-Trimethylbenzene	500	ND	D2,P5	5800	163000	
108-05-4	Vinyl acetate	500	ND	D2,P5	32200	326000	
75-01-4	Vinyl chloride	500	ND	D2,P5	3630	163000	
	m&p-Xylene	500	ND	D2,,P5	985.	326000	
95-47-6	o-Xylene	500	ND	D2,P5	1150	163000	

57 compound(s) reported

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Kansas Dept. of Health .Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: LF-B-04 (5-6')
Site: None
Project: MS BLUFFS/LA002656.0001
Project No.: 2068284
Sample Qu:
Lab ID: 20512321
Matrix: Soil
% Moisture: 25.8 Corrected
Description: None
Prep Level: Soil
Batch: 84524
Method: 8270 SVOAs Low Soil
Units: ug/kg
Target List: 8270_SL20
Collected: 04/02/07
Received: 04/06/07
Prep Factor: 1
Prepared: 04/11/07
Analyzed: 04/13/07 17:17 JAM

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	20	ND	D2	2660	8900	
1912-24-9	Atrazine	20	ND	D2	1580	8900	
21725-46-2	Cyanazine	20	ND	D2	3040	8900	
117-81-7	bis(2-Ethylhexyl)phthalate	20	ND	D2	2320	8900	
100-02-7	4-Nitrophenol	20	ND	D2	1320	8900	
87-86-5	Pentachlorophenol	20	ND	D2	6740	8900	

6 compound(s) reported

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: LF-B-04 (22-24')
Site: None
Project: MS BLUFFS/LA002656.0001
Project No.: 2068284
Sample Qu:
Lab ID: 20512322
Matrix: Soil
% Moisture: 17.2 Corrected
Description: None
Prep Level: Soil
Batch: 84489
Method: 8260 VOAs Med Soil
Units: ug/kg
Target List: 8260M SL20
Collected: 04/02/07
Received: 04/06/07
Prep Factor: 1
Prepared: 04/06/07
Analyzed: 04/17/07 13:04 RMP

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11,P5	187.	508.	
75-05-8	Acetonitrile	1	ND	P5		5080	
107-02-8	Acrolein	1	ND	P5		1020	
107-13-1	Acrylonitrile	1	ND	P5		1020	
107-05-1	Allyl chloride	1	ND	P5	32.9	508.	
71-43-2	Benzene	1	ND	P5	4.06	254.	
75-27-4	Bromodichloromethane	1	ND	P5	5.81	254.	
75-25-2	Bromoform	1	ND	P5	14.5	254.	
74-83-9	Bromomethane	1	ND	P5	10.4	254.	
78-93-3	2-Butanone (MEK)	1	ND	A11,P5	78.1	508.	
75-15-0	Carbon disulfide	1	ND	P5	6.41	254.	
56-23-5	Carbon tetrachloride	1	1200	P5	7.90	254.	
108-90-7	Chlorobenzene	1	ND	P5	7.21	254.	
75-00-3	Chloroethane	1	ND	P5	13.8	254.	
67-66-3	Chloroform	1	ND	P5	4.53	254.	
74-87-3	Chloromethane	1	ND	P5	11.8	254.	
126-99-8	Chloroprene	1	ND	P5	40.0	254.	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND	P5		254.	
124-48-1	Dibromochloromethane	1	ND	P5	8.88	254.	
106-93-4	1,2-Dibromoethane (EDB)	1	ND	P5	10.4	254.	
74-95-3	Dibromomethane	1	ND	P5	14.7	254.	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND	P5		254.	
75-71-8	Dichlorodifluoromethane	1	ND	P5		254.	
75-34-3	1,1-Dichloroethane	1	ND	P5	7.32	254.	
107-06-2	1,2-Dichloroethane	1	ND	P5	7.20	254.	
75-35-4	1,1-Dichloroethene	1	ND	P5	15.6	254.	
156-60-5	trans-1,2-Dichloroethene	1	ND	P5	7.91	254.	
78-87-5	1,2-Dichloropropane	1	ND	P5	32.2	254.	
10061-01-5	cis-1,3-Dichloropropene	1	ND	P5	7.75	254.	
10061-02-6	trans-1,3-Dichloropropene	1	ND	P5	4.93	254.	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND	P5	2150	12700	
100-41-4	Ethylbenzene	1	ND	P5	0.851	254.	
97-63-2	Ethyl methacrylate	1	ND	P5	38.7	508.	

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Kansas Dept. of Health Environment - E-10266
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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: LF-B-04 (22-24')
Site: None
Project: MS BLUFFS/LA002656.0001
Project No.: 2068284
Sample Qu:
Lab ID: 20512322
Matrix: Soil
% Moisture: 17.2 Corrected
Description: None
Prep Level: Soil
Batch: 84489
Method: 8260 VOAs Med Soil
Units: ug/kg
Target List: 8260M SL20
Collected: 04/02/07
Received: 04/06/07
Prep Factor: 1
Prepared: 04/06/07
Analyzed: 04/17/07 13:04 RMP

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND	P5	112.	508.	
74-88-4	Iodomethane	1	ND	P5	11.0	254.	
78-83-1	Isobutanol	1	ND	P5	1440	12700	
126-98-7	Methacrylonitrile	1	ND	P5	975.	5080	
75-09-2	Methylene chloride	1	ND	A11,,P5	45.3	254.	
80-62-6	Methyl methacrylate	1	ND	P5	8.63	508.	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND	P5	28.6	508.	
107-12-0	Propionitrile	1	ND	P5		1020	
100-42-5	Styrene	1	ND	P5	5.32	254.	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND	P5	8.73	254.	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND	P5	11.0	254.	
127-18-4	Tetrachloroethene	1	ND	P5	8.02	254.	
108-88-3	Toluene	1	ND	P5	4.53	254.	
71-55-6	1,1,1-Trichloroethane	1	ND	P5	7.68	254.	
79-00-5	1,1,2-Trichloroethane	1	ND	P5	8.57	254.	
79-01-6	Trichloroethene	1	ND	P5	8.78	254.	
75-69-4	Trichlorofluoromethane	1	ND	P5	25.1	254.	
96-18-4	1,2,3-Trichloropropane	1	ND	P5	17.6	254.	
95-63-6	1,2,4-Trimethylbenzene	1	ND	P5	8.12	254.	
108-67-8	1,3,5-Trimethylbenzene	1	ND	P5	9.04	254.	
108-05-4	Vinyl acetate	1	ND	P5	50.2	508.	
75-01-4	Vinyl chloride	1	ND	P5	5.65	254.	
	m&p-Xylene	1	ND	P5	1.53	508.	
95-47-6	o-Xylene	1	ND	P5	1.79	254.	

57 compound(s) reported

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Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: LF-B-04 (22-24')
Site: None
Project: MS BLUFFS/LA002656.0001
Project No.: 2068284
Sample Qu:
Lab ID: 20512322
Matrix: Soil
% Moisture: 17.2 Corrected
Description: None
Prep Level: Soil
Batch: 84524
Method: 8270 SVOAs Low Soil
Units: ug/kg
Target List: 8270_SL20
Collected: 04/02/07
Received: 04/06/07
Prep Factor: 1
Prepared: 04/11/07
Analyzed: 04/13/07 17:46 JAM

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		119.	399.	
1912-24-9	Atrazine	1	ND		70.8	399.	
21725-46-2	Cyanazine	1	ND		136.	399.	
88-85-7	Dinoseb	1	ND	N	37.7	399.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		104.	399.	
100-02-7	4-Nitrophenol	1	ND		58.9	399.	
87-86-5	Pentachlorophenol	1	ND		302.	399.	

7 compound(s) reported

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: TRIP BLANK
Site: None
Project: MS BLUFFS/LA002656.0001
Project No.: 2068284
Sample Qu:
Lab ID: 20512372
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 84399
Method: 8260 VOAs Water
Units: ug/L
Target List: 8260_WL20
Collected: 04/02/07
Received: 04/06/07
Prep Factor: 1
Prepared: 04/10/07
Analyzed: 04/10/07 14:55 RMP

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: TRIP BLANK
Site: None
Project: MS BLUFFS/LA002656.0001
Project No.: 2068284
Sample Qu:
Lab ID: 20512372
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 84399
Method: 8260 VOAs Water
Units: ug/L
Target List: 8260_WL20
Collected: 04/02/07
Received: 04/06/07
Prep Factor: 1
Prepared: 04/10/07
Analyzed: 04/10/07 14:55 RMP

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	ND	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	10.0	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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4/20/2007 13:14:19

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Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

Pace Analytical
New Orleans Laboratory

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: LF-B-04 (5-6')
Site: None
Project: MS BLUFFS/LA002656.0001
Project No.: 2068284
Sample Qu:
Lab ID: 20512321
Matrix: Soil
% Moisture: 25.8 Corrected
Description: None
Prep Level: Soil
Batch: 84521
Method: 8081 Pests Low Soil
Units: ug/kg
Target List: 8081_SL20
Collected: 04/02/07
Received: 04/06/07
Prep Factor: 1
Prepared: 04/11/07
Analyzed: 04/13/07 23:29 SPP1

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	10	15000	D1	126.	900.	

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: LF-B-04 (5-6')
Site: None
Project: MS BLUFFS/LA002656.0001
Project No.: 2068284
Sample Qu:
Lab ID: 20512321
Matrix: Soil
% Moisture: 25.8 Corrected
Description: None
Prep Level: Soil
Batch: 84355
Method: 8151 Herbs Low Soil
Units: ug/kg
Target List: 8151_SL20
Collected: 04/02/07
Received: 04/06/07
Prep Factor: 1
Prepared: 04/11/07
Analyzed: 04/17/07 17:20 SLF

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	20000	8400000	B2,D1,N	299000	1800000	

1 compound(s) reported

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: LF-B-04 (22-24')
Site: None
Project: MS BLUFFS/LA002656.0001
Project No.: 2068284
Sample Qu:
Lab ID: 20512322
Matrix: Soil
% Moisture: 17.2 Corrected
Description: None
Prep Level: Soil
Batch: 84521
Method: 8081 Pests Low Soil
Units: ug/kg
Target List: 8081_SL20
Collected: 04/02/07
Received: 04/06/07
Prep Factor: 1
Prepared: 04/11/07
Analyzed: 04/13/07 23:46 SPP1

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		11.3	80.6	

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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LELAP # 02006

Client ID: LF-B-04 (5-6')
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001
Site: None
Lab ID: 20512321
Project No.: 2068284
Description: None
Matrix: Soil
%Moisture: 25.8 Corrected
Collected: 04/02/07
Received: 04/06/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	84511	1	ND		mg/kg	0.553	1.18	04/13	04/13 13:30	KJR	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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LELAP # 02006

Client ID: LF-B-04 (22-24')
Project: MS BLUFFS/LA002656.0001
Lab ID: 20512322
Description: None

Client: Arcadis Geraghty & Miller
Site: None
Project No.: 2068284
Matrix: Soil **%Moisture:** 17.2 Corrected
Collected: 04/02/07 **Received:** 04/06/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	84511	1	1.49		mg/kg	0.554	1.18	04/13	04/13 13:35	KJR	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Report of Quality Control

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Method: EPA 8260 **Project:** 2068284 **LCS:** 20512471 4/10/2007 2:11:00 PM

Batch: 84399 **MS:** 20512472 4/10/2007 3:40:00 PM

Units: ug/L **Original for MS:** 20511782 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Acetone	50	53.65	107	50	0.00	55.17	61.63	110	123	11	22 - 165	11 - 171	20	A11
Acetonitrile	550	649.2	118	550	0.00	667.3	717.6	121	131	7	15 - 171	10 - 182	20	
Acrolein	100	104.1	104	100	0.00	110.7	125.8	111	126	13	10 - 150	10 - 150	20	
Acrylonitrile	150	152.4	102	150	0.00	155.6	171.8	104	115	10	10 - 150	10 - 150	20	
Allyl chloride	100	95	95	100	0.00	91.93	96.76	92	97	5	30 - 155	34 - 153	20	
Benzene	50	52.24	104	50	0.00	49.84	52.27	100	105	5	70 - 135	60 - 144	20	
Bromodichloromethane	50	58.22	116	50	0.00	57.12	60.63	114	121	6	61 - 156	59 - 156	20	
Bromoform	50	66.76	134	50	0.00	67.46	71.18	135	142	5	56 - 154	50 - 153	20	
Bromomethane	50	46.22	92	50	0.00	46.92	45.5	94	91	3	44 - 158	37 - 165	20	
2-Butanone (MEK)	50	55.45	111	50	0.00	55.3	58.51	111	117	6	32 - 157	20 - 168	20	A11
Carbon disulfide	50	42.36	85	50	0.00	40.43	42.17	81	84	4	40 - 147	36 - 152	20	
Carbon tetrachloride	50	58.49	117	50	0.00	54.68	57.3	109	115	5	50 - 166	44 - 170	20	
Chlorobenzene	50	58.81	118	50	0.00	57.38	58.83	115	118	2	73 - 129	67 - 134	20	
Chloroethane	50	51.94	104	50	0.00	51.14	51.91	102	104	1	38 - 163	34 - 170	20	
Chloroform	50	55.27	111	50	0.00	54.36	57.82	109	116	6	71 - 133	64 - 140	20	
Chloromethane	50	33.59	67	50	0.00	32.88	31.15	66	62	5	32 - 149	22 - 163	20	
Chloroprene	50	49.28	99	50	0.00	45.35	49.75	91	100	9	50 - 141	51 - 134	20	
1,2-Dibromo-3-chloropropa	50	48.24	97	50	0.00	48.39	52.21	97	104	8	34 - 145	28 - 150	20	
Dibromochloromethane	50	63.83	128	50	0.00	63.15	67.6	126	135	7	63 - 147	58 - 147	20	
1,2-Dibromoethane (EDB)	50	63.62	127	50	0.00	66.35	69.56	133	139	5	60 - 147	55 - 149	20	
Dibromomethane	50	61.77	124	50	0.00	63.84	66.92	128	134	5	60 - 147	56 - 148	20	
trans-1,4-Dichloro-2-butene	100	112.9	113	100	0.00	108.3	112.6	108	113	4	17 - 178	21 - 164	20	
1,1-Dichloroethane	50	50.84	102	50	0.00	48.79	52.12	98	104	7	64 - 135	59 - 142	20	
1,2-Dichloroethane	50	64.09	128	50	0.00	65.96	70.34	132	141	6	53 - 164	51 - 161	20	
1,1-Dichloroethene	50	52.75	106	50	0.00	50.02	53.13	100	106	6	51 - 143	44 - 152	20	
trans-1,2-Dichloroethene	50	53.2	106	50	0.00	50.63	52.94	101	106	4	59 - 139	56 - 145	20	
1,2-Dichloropropane	50	51.8	104	50	0.00	51.88	54.23	104	109	4	69 - 135	66 - 138	20	
cis-1,3-Dichloropropene	50	59.24	118	50	0.00	57.85	61.84	116	124	7	66 - 141	58 - 142	20	
trans-1,3-Dichloropropene	50	62.39	125	50	0.00	62.3	65.85	125	132	6	57 - 150	50 - 151	20	
1,4-Dioxane (p-Dioxane)	1050	1471	140	1050	0.00	1466	1607	140	153	9	17 - 176	19 - 172	20	
Ethylbenzene	50	54	108	50	0.00	51.24	53.15	103	106	4	67 - 132	58 - 138	20	
Ethyl methacrylate	100	127.4	127	100	0.00	130.3	140.9	130	141	8	57 - 143	45 - 170	20	
2-Hexanone	50	57.86	116	50	0.00	56.89	64.89	114	130	13	36 - 154	25 - 163	20	
Iodomethane	50	54.6	109	50	0.00	54.43	57.52	109	115	6	43 - 159	36 - 160	20	
Isobutanol	1050	1189	113	1050	0.00	1129	1266	108	121	11	32 - 160	26 - 169	20	
Methacrylonitrile	550	627.3	114	550	0.00	650.9	706.7	118	129	8	10 - 171	10 - 167	20	
Methylene chloride	50	53.47	107	50	0.00	54.53	56.63	109	113	4	29 - 159	19 - 158	20	A11
Methyl methacrylate	100	120.2	120	100	0.00	121.5	129.3	122	129	6	52 - 167	11 - 212	20	
4-Methyl-2-pentanone (MI	50	62.49	125	50	0.00	61.56	66.8	123	134	8	13 - 162	10 - 157	20	

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* denotes recovery outside of QC limits.

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

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Report of Quality Control

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Method: EPA 8260 **Project:** 2068284 **LCS:** 20512471 4/10/2007 2:11:00 PM

Batch: 84399 **MS:** 20512472 4/10/2007 3:40:00 PM

Units: ug/L **Original for MS:** 20511782 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Propionitrile	550	652.9	119	550	0.00	674.1	735.2	123	134	9	23 - 159	25 - 158	20	
Styrene	50	60.95	122	50	0.00	57.85	60.59	116	121	5	71 - 134	54 - 144	20	
1,1,1,2-Tetrachloroethane	50	61.2	122	50	0.00	59.24	61.92	119	124	4	73 - 146	65 - 150	20	
1,1,2,2-Tetrachloroethane	50	53.37	107	50	0.00	51.78	54.22	104	108	5	50 - 142	46 - 145	20	
Tetrachloroethene	50	61.08	122	50	0.00	55.69	59.53	111	119	7	42 - 156	39 - 151	20	
Toluene	50	51.58	103	50	0.00	50.25	52.52	101	105	4	72 - 132	64 - 139	20	
1,1,1-Trichloroethane	50	52.82	106	50	0.00	51.31	54.62	103	109	6	65 - 136	59 - 141	20	
1,1,2-Trichloroethane	50	60.7	121	50	0.00	61.53	65.95	123	132	7	67 - 144	60 - 146	20	
Trichloroethene	50	57.64	115	50	0.00	53.61	57.41	107	115	7	69 - 136	61 - 141	20	
Trichlorofluoromethane	50	50	100	50	0.00	48.88	49.03	98	98	0	42 - 161	38 - 160	20	
1,2,3-Trichloropropane	50	60.81	122	50	0.00	59.51	62.45	119	125	5	52 - 152	51 - 151	20	
1,2,4-Trimethylbenzene	50	51.19	102	50	0.00	48.7	48.83	97	98	0	59 - 137	41 - 155	20	
1,3,5-Trimethylbenzene	50	49.28	99	50	0.00	45.81	46.86	92	94	2	69 - 135	55 - 150	20	
Vinyl acetate	50	120.3	241 *	50	0.00	121.2	129.1	242 *	258 *	6	21 - 190	10 - 185	20	
Vinyl chloride	50	37.9	76	50	0.00	36.98	35.31	74	71	5	40 - 146	28 - 161	20	
m&p-Xylene	100	111	111	100	0.00	106.3	110.2	106	110	4	70 - 129	66 - 132	20	
o-Xylene	50	55.69	111	50	0.00	53.42	56.2	107	112	5	70 - 129	66 - 132	20	

56 compound(s) reported

* denotes recovery outside of QC limits.

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

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Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Method: EPA 8270 **Project:** 2068284 **LCS:** 20512979 4/13/2007 4:46:00 PM

Batch: 84524 **MS:** 20512980 4/14/2007 1:15:00 AM

Units: ug/kg **Original for MS:** 20511298 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Acetophenone	1667	1091	65	1667	0.00	983.7	986.3	59	59	0	40 - 120	40 - 120	20	
bis(2-Ethylhexyl)phthalate	1667	1325	80	1667	0.00	1127	1021	68	61	10	41 - 125	14 - 144	20	
4-Nitrophenol	1667	1188	71	1667	0.00	1021	898	61	54	13	30 - 132	10 - 138	20	
Pentachlorophenol	1667	1348	81	1667	0.00	1045	860	63	52	19	28 - 122	10 - 142	20	

4 compound(s) reported

* denotes recovery outside of QC limits.

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Report of Batch Surrogate Recovery

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Report: 2068284 **Batch: 84399**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20511782	OQS	100	105	98					
20512372	Sample	107	106	100					
20512470	BLANK	102	118	101					
20512471	LCS	97	105	103					
20512472	MS	95	107	103					
20512473	MSD	94	110	104					
	QC limits:	71-129	68-124	74-122					

Sur 1: 4-Bromofluorobenzene (S)
Sur 2: Dibromofluoromethane (S)
Sur 3: Toluene-d8 (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

4/20/2007 13:14:33

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Report: 2068284 **Batch: 84489**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20512321	Sample D2,P	0 D	0 D	0 D					
20512322	Sample P5	107	118	99					
20512865	BLANK P5	93	111	102					
20512866	LCS P5	107	108	103					
	QC limits:	45-146	50-137	51-140					

Sur 1: 4-Bromofluorobenzene (S)
Sur 2: Dibromofluoromethane (S)
Sur 3: Toluene-d8 (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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LELAP # 02006

Report: 2068284 **Batch: 84524**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20511298	OQS	60	69	62	69	68	68		
20512321	Sample D2	24	62	60	69	60	62		
20512322	Sample	61	71	62	70	66	71		
20512978	BLANK	61	64	58	64	63	67		
20512979	LCS	76	81	72	62	75	80		
20512980	MS	68	71	61	56	66	64		
20512981	MSD	60	72	61	52	63	58		
QC limits:		10-127	18-116	10-109	10-121	20-107	30-113		

Sur 1: 2,4,6-Tribromophenol (S)
Sur 2: 2-Fluorobiphenyl (S)
Sur 3: 2-Fluorophenol (S)
Sur 4: Nitrobenzene-d5 (S)
Sur 5: Phenol-d5 (S)
Sur 6: Terphenyl-d14 (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

4/20/2007 13:14:33

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1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20512470
Description: 8260 VOAs Full List Water BLK **Project No.:** 2068284
Method: EPA 8260 **Batch:** 84399 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 10-Apr-07 **Analyzed:** 04/10/07 13:48 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
67-64-1	Acetone	1	ND	A11	10.0
75-05-8	Acetonitrile	1	ND		100.
107-02-8	Acrolein	1	ND		20.0
107-13-1	Acrylonitrile	1	ND		20.0
107-05-1	Allyl chloride	1	ND		10.0
71-43-2	Benzene	1	ND		5.00
75-27-4	Bromodichloromethane	1	ND		5.00
75-25-2	Bromoform	1	ND		5.00
74-83-9	Bromomethane	1	ND		5.00
78-93-3	2-Butanone (MEK)	1	ND	A11	10.0
75-15-0	Carbon disulfide	1	ND		5.00
56-23-5	Carbon tetrachloride	1	ND		5.00
108-90-7	Chlorobenzene	1	ND		5.00
75-00-3	Chloroethane	1	ND		5.00
67-66-3	Chloroform	1	ND		5.00
74-87-3	Chloromethane	1	ND		5.00
126-99-8	Chloroprene	1	ND		5.00
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.00
124-48-1	Dibromochloromethane	1	ND		5.00
106-93-4	1,2-Dibromoethane (EDB)	1	ND		5.00
74-95-3	Dibromomethane	1	ND		5.00
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		5.00
75-71-8	Dichlorodifluoromethane	1	ND		5.00
75-34-3	1,1-Dichloroethane	1	ND		5.00
107-06-2	1,2-Dichloroethane	1	ND		5.00
540-59-0	1,2-Dichloroethene (Total)	1	ND		10.0
75-35-4	1,1-Dichloroethene	1	ND		5.00
156-59-2	cis-1,2-Dichloroethene	1	ND		5.00
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00
78-87-5	1,2-Dichloropropane	1	ND		5.00
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		250.
100-41-4	Ethylbenzene	1	ND		5.00
97-63-2	Ethyl methacrylate	1	ND		10.0
591-78-6	2-Hexanone	1	ND		10.0

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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Phone: 504.469.0333
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LELAP # 02006

Lab ID: 20512470
Description: 8260 VOAs Full List Water BLK **Project No.:** 2068284
Method: EPA 8260 **Batch:** 84399 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 10-Apr-07 **Analyzed:** 04/10/07 13:48 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
74-88-4	Iodomethane	1	ND		5.00
78-83-1	Isobutanol	1	ND		250.
98-82-8	Isopropylbenzene (Cumene)	1	ND		5.00
126-98-7	Methacrylonitrile	1	ND		100.
79-20-9	Methyl acetate	1	ND		10.0
75-09-2	Methylene chloride	1	ND	A11	5.00
80-62-6	Methyl methacrylate	1	ND		10.0
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0
1634-04-4	Methyl-tert-butyl ether	1	ND		5.00
91-20-3	Naphthalene	1	ND		5.00
107-12-0	Propionitrile	1	ND		20.0
100-42-5	Styrene	1	ND		5.00
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.00
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00
127-18-4	Tetrachloroethene	1	ND		5.00
108-88-3	Toluene	1	ND		5.00
71-55-6	1,1,1-Trichloroethane	1	ND		5.00
79-00-5	1,1,2-Trichloroethane	1	ND		5.00
79-01-6	Trichloroethene	1	ND		5.00
75-69-4	Trichlorofluoromethane	1	ND		5.00
96-18-4	1,2,3-Trichloropropane	1	ND		5.00
95-63-6	1,2,4-Trimethylbenzene	1	ND		5.00
108-67-8	1,3,5-Trimethylbenzene	1	ND		5.00
108-05-4	Vinyl acetate	1	ND		10.0
75-01-4	Vinyl chloride	1	ND		5.00
1330-20-7	Xylene (Total)	1	ND		10.0
	m&p-Xylene	1	ND		10.0
95-47-6	o-Xylene	1	ND		5.00

64 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20512978
Description: 8270 SVOAs Low Soil **Project No.:** 2068284
Method: EPA 8270 **Batch:** 84524 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 11-Apr-07 **Analyzed:** 04/13/07 16:17 JAM

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
83-32-9	Acenaphthene	1	ND		330.
208-96-8	Acenaphthylene	1	ND		330.
98-86-2	Acetophenone	1	ND		330.
120-12-7	Anthracene	1	ND		330.
1912-24-9	Atrazine	1	ND		330.
56-55-3	Benzo(a)anthracene	1	ND		330.
205-99-2	Benzo(b)fluoranthene	1	ND		330.
207-08-9	Benzo(k)fluoranthene	1	ND		330.
191-24-2	Benzo(g,h,i)perylene	1	ND		330.
50-32-8	Benzo(a)pyrene	1	ND		330.
85-68-7	Butylbenzylphthalate	1	ND		330.
218-01-9	Chrysene	1	ND		330.
21725-46-2	Cyanazine	1	ND		330.
53-70-3	Dibenz(a,h)anthracene	1	ND		330.
57-97-6	7,12-Dimethylbenz(a)anthracene	1	ND		330.
105-67-9	2,4-Dimethylphenol	1	ND		330.
84-74-2	Di-n-butylphthalate	1	ND		330.
121-14-2	2,4-Dinitrotoluene	1	ND		330.
117-84-0	Di-n-octylphthalate	1	ND		330.
88-85-7	Dinoseb	1	ND		330.
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		330.
206-44-0	Fluoranthene	1	ND		330.
86-73-7	Fluorene	1	ND		330.
193-39-5	Indeno(1,2,3-cd)pyrene	1	ND		330.
90-12-0	1-Methylnaphthalene	1	ND		330.
91-57-6	2-Methylnaphthalene	1	ND		330.
95-48-7	2-Methylphenol (o-Cresol)	1	ND		330.
106-44-5	4-Methylphenol (p-Cresol)	1	ND	A7	330.
91-20-3	Naphthalene	1	ND		330.
98-95-3	Nitrobenzene	1	ND		330.
100-02-7	4-Nitrophenol	1	ND		330.
87-86-5	Pentachlorophenol	1	ND		330.
85-01-8	Phenanthrene	1	ND		330.
108-95-2	Phenol	1	ND		330.
129-00-0	Pyrene	1	ND		330.
110-86-1	Pyridine	1	ND		330.

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Phone: 504.469.0333
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LELAP # 02006

Lab ID: 20512978

Description: 8270 SVOAs Low Soil **Project No.:** 2068284

Method: EPA 8270 **Batch:** 84524 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 11-Apr-07 **Analyzed:** 04/13/07 16:17 JAM

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit

36 compound(s) reported

ND denotes Not Detected at or above the reporting limit
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Method: EPA 8151 **Project:** 2068284 **LCS:** 20512985 4/16/2007 2:05:00 PM

Batch: 84355 **MS:** 20512986 4/16/2007 3:27:00 PM

Units: ug/kg **Original for MS:** 20512321 Client Sample

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Dinoseb	166.7	295.5	177	224.8	8398000.00	8015000	11360000	0 *	16000 *	34 *	10 - 188	10 - 189	20	D1,Q3

1 compound(s) reported

* denotes recovery outside of QC limits.

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

4/20/2007 13:14:40

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Report of Batch Surrogate Recovery

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Report: 2068284 **Batch: 84355**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20512216	BLANK	100	104						
20512217	LCS	94	106						
20512321	Sample D1,D	0 D	0 D						
20512984	BLANK	74	82						
20512985	LCS	93	105						
20512986	MS D1	0 D	0 D						
20512987	MSD D1	0 D	0 D						
	QC limits:	10-191	10-191						

Sur 1: 2,4-DCPA (Conf)(S)
Sur 2: 2,4-DCPA (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

4/20/2007 13:14:42

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Report of Batch Surrogate Recovery

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Phone: 504.469.0333
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LELAP # 02006

Report: 2068284 **Batch: 84521**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20512321	Sample D1	0 D	0 D	0 D	0 D				
20512322	Sample	114	87	93	91				
20512972	BLANK	105	105	91	89				
20512973	LCS	96	101	86	84				
20512974	MS D2,Q	168	97	0 D	76				
20512975	MSD D2,Q	3710 D	94	0 D	49				
	QC limits:	15-172	15-172	10-151	10-151				

Sur 1: Decachlorobiphenyl (Conf)(S)
Sur 2: Decachlorobiphenyl (S)
Sur 3: Tetrachloro-m-xylene (Conf)(S)
Sur 4: Tetrachloro-m-xylene (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

4/20/2007 13:14:43

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Phone: 504.469.0333
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LELAP # 02006

Lab ID: 20512972
Description: 8081 Pests Low Soil **Project No.:** 2068284
Method: EPA 8081 **Batch:** 84521 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 11-Apr-07 **Analyzed:** 04/12/07 15:27 SLF

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
309-00-2	Aldrin	1	ND		1.70
319-84-6	alpha-BHC	1	ND		1.70
319-85-7	beta-BHC	1	ND		1.70
319-86-8	delta-BHC	1	ND		1.70
58-89-9	gamma-BHC (Lindane)	1	ND		1.70
57-74-9	Chlordane	1	ND		3.33
72-54-8	4,4'-DDD	1	ND		3.33
72-55-9	4,4'-DDE	1	ND		3.33
50-29-3	4,4'-DDT	1	ND		3.33
60-57-1	Dieldrin	1	ND		3.33
959-98-8	Endosulfan I	1	ND		1.70
33213-65-9	Endosulfan II	1	ND		3.33
1031-07-8	Endosulfan sulfate	1	ND		3.33
72-20-8	Endrin	1	ND		3.33
7421-93-4	Endrin aldehyde	1	ND		3.33
76-44-8	Heptachlor	1	ND		1.70
1024-57-3	Heptachlor epoxide	1	ND		1.70
8001-35-2	Toxaphene	1	ND		66.7

18 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Lab ID: 20512984

Description: 8151 Herbs Low Soil **Project No.:** 2068284

Method: EPA 8151 **Batch:** 84355 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 11-Apr-07 **Analyzed:** 04/16/07 13:38 SPP1

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
94-75-7	2,4-D	1	ND		66.7
127-20-8	Dalapon	1	ND		333.
94-82-6	2,4-DB	1	ND		167.
1918-00-9	Dicamba	1	ND		66.7
120-36-5	Dichloroprop	1	ND		66.7
88-85-7	Dinoseb	1	221.		66.7
94-74-6	MCPA	1	ND		6670
7085-19-0	MCPP	1	ND		6670
93-76-5	2,4,5-T	1	ND		66.7
93-72-1	2,4,5-TP (Silvex)	1	ND		66.7

10 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Report of Quality Control

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Phone: 504.469.0333
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LELAP # 02006

Project: 2068284

Parameter	Batch	Blank	ARL	Units	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Arsenic	84511	ND	1.00	mg/kg	100	87.76	88	91.59	0.00	72.78	94.5	80	81	26 *	71 - 131	46 - 137	20	

* denotes recovery outside of QC limits.
ARL denotes Adjusted Reporting Limit, corrected for sample size, dilution and moisture content as applicable.
MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

4/20/2007 13:14:49

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Report Qualifiers

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Phone: 504.469.0333
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LELAP # 02006

Project: 2068284

ALL Qualifiers

Qualifier	Qualifier Description
N	See narrative for a detailed explanation.

Analyte Qualifiers

Qualifier	Qualifier Description
A7	3-Methylphenol and 4-methylphenol coelute under the conditions used for analysis, therefore the precise isomer in the sample cannot be determined. The sample concentration is arbitrarily reported as 4-methylphenol.
A11	This analyte is a common solvent. Its presence in field samples may be an artifact of sample collection, transport, laboratory storage or analysis.

General Qualifiers

Qualifier	Qualifier Description
D1	The analysis was performed at a dilution due to the high analyte concentration.
D2	The analysis was performed at a dilution due to the presence of matrix interferences.

QC Qualifiers

Qualifier	Qualifier Description
Q3	The matrix spike recoveries are poor due to the presence of this analyte in the sample at a concentration greater than 4 times the spiked amount. Acceptable method performance for this analyte has been demonstrated by the laboratory control sample.

Sample Qualifiers

Qualifier	Qualifier Description
P5	A medium level preparation was performed based upon screening data or the nature of the sample matrix.
B2	This analyte was present in the method blank, however the data are reported since the sample results are greater than 10 times the blank concentration.

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Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

2068284

Page: of

Section A Required Client Information:

Company: ARCADIS	
Address: 10352 Plaza Americana Drive	
Baton Rouge, Louisiana 70816	
Email To: Craig.Derouen@arcadis-us.com; Jane.Kennedy@arcadis-us.com	
Phone: (225) 292-1004 Fax: (225) 218-9677	
Requested Due Date/TAT:	

Section B Required Project Information:

Report To: Craig Derouen	
Copy To: Jane Kennedy	
Purchase Order No.:	
Project Name: MS Bluffs (Vicksburg, MS)	
Project Number: LA002656.0001	

Section C Invoice Information:

Attention: ARCADIS - Accounts Payable	
Company Name: ARCADIS	
Address: 10352 Plaza Americana; Baton Rouge, LA 70819	
Pace Quote Reference:	
Pace Project Manager: Cindy Olavesen	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER MDEQ TRGs

SITE LOCATION ☐ GA ☐ IL ☐ IN ☐ MI ☐ NC ☐ OH ☐ SC ☐ W ☑ OTHER MS

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / ,-) Samples IDs MUST BE UNIQUE)	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Filtered (Y/N)	Requested Analysis: 8260	8270	8081-TOX/PHENE	8151-DINOSEB	ARSENIC	Pace Project Number / Lab I.D.
1	LF-B-04(5-6)	SL		04/03/07			1000		3										1	1	1	1	1	2057232
2	LF-B-04(20-24)	SL		04/04/07			1410		3										1	1	1	1	1	322
3																								
4																								
5																								
6																								Trip 372
7																								
8																								
9																								
10																								
11																								
12																								

Additional Comments:

MDEQ Tier 1 TRG Detection Limits

* 5-6' could Be Hot !!

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
George Cook/Arcadis	4/5/07	1600			
FedEx	4-6-07	1015	M. Mellon/Pace	4-6-07	1015

SAMPLE CONDITIONS

Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
3.0	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: George E Cook

SIGNATURE of SAMPLER: George E Cook

DATE Signed (MM/DD/YY): 04/05/07

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Page: of

Section A — **Required** Client Information:

Company: ARCADIS	
Address: 10352 Plaza Americana Drive	
Baton Rouge, Louisiana 70816	
Email To: Craig.Derouen@arcadis-us.com; Jane.Kennedy@arcadis-us.com	
Phone: (225) 292-1004 Fax: (225) 218-9677	
Requested Due Date/TAT:	

Section B — **Required** Project Information:

Report To: Craig Derouen
Copy To: Jane Kennedy
Purchase Order No.:
Project Name: MS Bluffs (Vicksburg, MS)
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Attention: ARCADIS - Accounts Payable
Company Name: ARCADIS
Address: 10352 Plaza Americana; Baton Rouge, LA 70819
Pace Quote Reference:
Pace Project Manager: Cindy Olavesen
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER MDEQ TRGs

SITE LOCATION ☐ GA ☐ IL ☐ IN ☐ MI ☐ NC ☐ OH ☐ SC ☑ W ☐ OTHER MS

Section D **Required** Client Information

SAMPLE ID

One Character per box.
(A-Z, 0-9 / ,-)
Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL WP
WIPE	AR
AIR	OT
OTHER	TS
TISSUE	

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Filtered (Y/N)	Requested Analysis: 8260	BA 9-Trizine	8270	8081-TOXAPHENE	8151-DINOSEB	ARSENIC	Pace Project Number / Lab I.D.
1	LF-B-04(5-6)	SL		04/02/07			1000		3										1	1	1	1	1		20572321
2	LF-B-04(20-24)	SL		04/02/07			1410		3										1	1	1	1	1		322
3																									
4																									
5																									
6																								Trip	372
7																									
8																									
9																									
10																									
11																									
12																									

Additional Comments:

MDEQ Tier 1 TRG Detection Limits

* 5-6' Could Be Hot !!

20-24 should be 22-24 per George Cook 4/9/07 cs

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
George Cook/Arcadis	4/5/07	1600			
Fed Ex	4-6-07	1015	M) mull/Pace	4-6-07	1015

SAMPLE CONDITIONS

Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
3.0	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: George E Cook

SIGNATURE of SAMPLER: George E Cook

DATE Signed (MM/DD/YY): 04/05/07

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New Orleans Laboratory

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Phone: 504.469.0333
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LELAP # 02006

RECEIVED
MAY 0 1 2007
ARCADIS Geraghty & Miller

April 26, 2007

Craig Derouen
Arcadis Geraghty & Miller
10352 Plaza Americana Drive
Baton Rouge, LA 70816

RE: Project: 2068454
RE: Project ID: MS BLUFFS/LA002656.0001

Dear Craig Derouen:

Enclosed are the analytical results for sample(s) received by the laboratory on April 12, 2007. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Cindy Olavesen

Cindy Olavesen

ACCREDITED IN ACCORDANCE WITH nelac

REPORT OF LABORATORY ANALYSIS

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LELAP # 02006

Report of Laboratory Analysis

Project Number: 2068454

4/26/2007 16:58:30

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Sample Cross Reference Report

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.0001

Project No.: 2068454

Sample ID	Lab ID	Matrix	Collection Date/Time		Received Date/Time	
LF-B-13 (16-18)	20513393	Soil	04/10/2007	14:20	04/12/2007	10:15
TB-01 (040907)	20513394	Water	04/10/2007		04/12/2007	10:15

4/26/2007 16:58:33

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Kansas Dept. of Health Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

Project Narrative

Pace Analytical Services, Inc.
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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2068454

Narrative detail for GC semi-volatilves analyses:

Dinoseb is a poor performer by method 8151; QC recovery data may be poor or erratic as demonstrated by performance-based statistical evaluation.

Dinoseb was high biased in the closing standard that followed batch 84747; since there were no hits for dinoseb no corrective action was necessary.

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Project Narrative

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: **2068454**

Sample Receipt Condition:

All samples were received in accordance with EPA protocol.

Holding Times:

All holding times were met.

Blanks:

All blank results were below reporting limits.

Laboratory Control Samples:

LCS recoveries outside of QC limits are qualified in the Report of Quality Control section.

Matrix Spikes and Duplicates:

MS or MSD recoveries outside of QC limits are qualified in the Report of Quality Control section.

Surrogates:

Surrogate recoveries outside of QC limits are qualified in the surrogate results section.

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2068454

Analytical Method	Batch	Sample used for QC
EPA 8081	84521	Client sample LF-B-02 (12-14) from project 2068069
EPA 8151	84747	Project sample LF-B-13 (16-18)
EPA 6010	84672	Batch sample from another client
EPA 8270	84741	Batch sample from another client
EPA 8260	84868	Batch sample from another client
% Moisture	84646	Batch sample from another client

For the sample used as the original for the DUP or MS/MSD for the batch:

Project sample means a sample from this project was used.
Client sample means a sample from the same client but in a different project was used.
Batch sample means a sample from the a different client was used.

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Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: LF-B-13 (16-18)
Site: None
Project: MS BLUFFS/LA002656.0001
Project No.: 2068454
Sample Qu:
Lab ID: 20513393
Matrix: Soil
% Moisture: 32.3 Corrected
Description: None
Prep Level: Soil
Batch: 84489
Method: 8260 VOAs Med Soil
Units: ug/kg
Target List: 8260M SL20
Collected: 04/10/07
Received: 04/12/07
Prep Factor: 1
Prepared: 04/12/07
Analyzed: 04/17/07 13:26 RMP

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	20	ND	D2,P5	5030	13700	
75-05-8	Acetonitrile	20	ND	D2,P5		137000	
107-02-8	Acrolein	20	ND	D2,P5		27300	
107-13-1	Acrylonitrile	20	ND	D2,P5		27300	
107-05-1	Allyl chloride	20	ND	D2,P5	886.	13700	
71-43-2	Benzene	20	ND	D2,P5	109.	6840	
75-27-4	Bromodichloromethane	20	ND	D2,P5	156.	6840	
75-25-2	Bromoform	20	ND	D2,P5	391.	6840	
74-83-9	Bromomethane	20	ND	D2,P5	280.	6840	
78-93-3	2-Butanone (MEK)	20	ND	D2,P5	2100	13700	
75-15-0	Carbon disulfide	20	ND	D2,P5	173.	6840	
56-23-5	Carbon tetrachloride	20	ND	D2,,P5	213.	6840	
108-90-7	Chlorobenzene	20	ND	D2,P5	194.	6840	
75-00-3	Chloroethane	20	ND	D2,P5	371.	6840	
67-66-3	Chloroform	20	15900	D2,P5	122.	6840	
74-87-3	Chloromethane	20	ND	D2,P5	317.	6840	
126-99-8	Chloroprene	20	ND	D2,P5	1080	6840	
96-12-8	1,2-Dibromo-3-chloropropane	20	ND	D2,P5		6840	
124-48-1	Dibromochloromethane	20	ND	D2,P5	239.	6840	
106-93-4	1,2-Dibromoethane (EDB)	20	ND	D2,P5	279.	6840	
74-95-3	Dibromomethane	20	ND	D2,P5	396.	6840	
110-57-6	trans-1,4-Dichloro-2-butene	20	ND	D2,P5		6840	
75-71-8	Dichlorodifluoromethane	20	ND	D2,P5		6840	
75-34-3	1,1-Dichloroethane	20	ND	D2,P5	197.	6840	
107-06-2	1,2-Dichloroethane	20	ND	D2,P5	194.	6840	
75-35-4	1,1-Dichloroethene	20	ND	D2,P5	420.	6840	
156-60-5	trans-1,2-Dichloroethene	20	ND	D2,P5	213.	6840	
78-87-5	1,2-Dichloropropane	20	ND	D2,P5	867.	6840	
10061-01-5	cis-1,3-Dichloropropene	20	ND	D2,P5	209.	6840	
10061-02-6	trans-1,3-Dichloropropene	20	ND	D2,P5	133.	6840	
123-91-1	1,4-Dioxane (p-Dioxane)	20	ND	D2,P5	58000	342000	
100-41-4	Ethylbenzene	20	39700	D2,P5	22.9	6840	
97-63-2	Ethyl methacrylate	20	ND	D2,P5	1040	13700	

4/26/2007 16:59:07

ND denotes Not Detected at or above the adjusted reporting limit.
The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit denotes an actual regulatory limit or a client-requested notification limit.

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Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: LF-B-13 (16-18)
Site: None
Project: MS BLUFFS/LA002656.0001
Project No.: 2068454
Sample Qu:
Lab ID: 20513393
Matrix: Soil
% Moisture: 32.3 Corrected
Description: None
Prep Level: Soil
Batch: 84489
Method: 8260 VOAs Med Soil
Units: ug/kg
Target List: 8260M SL20
Collected: 04/10/07
Received: 04/12/07
Prep Factor: 1
Prepared: 04/12/07
Analyzed: 04/17/07 13:26 RMP

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	20	ND	D2,P5	3010	13700	
74-88-4	Iodomethane	20	ND	D2,P5	295.	6840	
78-83-1	Isobutanol	20	ND	D2,P5	38800	342000	
126-98-7	Methacrylonitrile	20	ND	D2,P5	26200	137000	
75-09-2	Methylene chloride	20	ND	D2,,P5	1220	6840	
80-62-6	Methyl methacrylate	20	ND	D2,P5	232.	13700	
108-10-1	4-Methyl-2-pentanone (MIBK)	20	ND	D2,P5	770.	13700	
107-12-0	Propionitrile	20	ND	D2,P5		27300	
100-42-5	Styrene	20	ND	D2,P5	143.	6840	
630-20-6	1,1,1,2-Tetrachloroethane	20	ND	D2,P5	235.	6840	
79-34-5	1,1,2,2-Tetrachloroethane	20	ND	D2,P5	295.	6840	
127-18-4	Tetrachloroethene	20	ND	D2,,P5	216.	6840	
108-88-3	Toluene	20	ND	D2,P5	122.	6840	
71-55-6	1,1,1-Trichloroethane	20	ND	D2,P5	207.	6840	
79-00-5	1,1,2-Trichloroethane	20	ND	D2,P5	231.	6840	
79-01-6	Trichloroethene	20	ND	D2,,P5	236.	6840	
75-69-4	Trichlorofluoromethane	20	ND	D2,P5	675.	6840	
96-18-4	1,2,3-Trichloropropane	20	ND	D2,P5	473.	6840	
95-63-6	1,2,4-Trimethylbenzene	20	281000	D2,P5	219.	6840	
108-67-8	1,3,5-Trimethylbenzene	20	99100	D2,P5	243.	6840	
108-05-4	Vinyl acetate	20	ND	D2,P5	1350	13700	
75-01-4	Vinyl chloride	20	ND	D2,P5	152.	6840	
	m&p-Xylene	20	142000	D2,P5	41.3	13700	
95-47-6	o-Xylene	20	119000	D2,P5	48.2	6840	

57 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
The Prep Factor accounts for a non-routine sample size.
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4/26/2007 16:59:08

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Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: LF-B-13 (16-18) **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2068454 **Sample Qu:**

Lab ID: 20513393 **Matrix:** Soil **% Moisture:** 32.3 Corrected

Description: None **Prep Level:** Soil **Batch:** 84741

Method: 8270 SVOAs Low Soil **Units:** ug/kg **Target List:** 8270_SL20

Collected: 04/10/07 **Received:** 04/12/07

Prep Factor: 1 **Prepared:** 04/16/07 **Analyzed:** 04/20/07 14:36 JAM

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1000	ND	D2,P2	1460000	4870000	
1912-24-9	Atrazine	1000	13800000	D2,P2	865000	4870000	
21725-46-2	Cyanazine	1000	14200000	D2,P2	1660000	4870000	
117-81-7	bis(2-Ethylhexyl)phthalate	1000	ND	D2,P2	1270000	4870000	
100-02-7	4-Nitrophenol	1000	ND	D2,P2	720000	4870000	
87-86-5	Pentachlorophenol	1000	ND	D2,P2	3690000	4870000	

6 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
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Regulatory limit denotes an actual regulatory limit or a client-requested notification limit.

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Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: TB-01 (040907) **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2068454 **Sample Qu:**

Lab ID: 20513394 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 84868

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 04/10/07 **Received:** 04/12/07

Prep Factor: 1 **Prepared:** 04/23/07 **Analyzed:** 04/23/07 20:55 RMP

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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ND denotes Not Detected at or above the adjusted reporting limit.
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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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1000 Riverbend Blvd. Suite F
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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: TB-01 (040907)
Site: None
Project: MS BLUFFS/LA002656.0001
Project No.: 2068454
Sample Qu:
Lab ID: 20513394
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 84868
Method: 8260 VOAs Water
Units: ug/L
Target List: 8260_WL20
Collected: 04/10/07
Received: 04/12/07
Prep Factor: 1
Prepared: 04/23/07
Analyzed: 04/23/07 20:55 RMP

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	ND	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	10.0	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: LF-B-13 (16-18) | **Site:** None

Project: MS BLUFFS/LA002656.0001 | **Project No.:** 2068454 | **Sample Qu:**

Lab ID: 20513393 | **Matrix:** Soil | **% Moisture:** 32.3 Corrected

Description: None | **Prep Level:** Soil | **Batch:** 84521

Method: 8081 Pests Low Soil | **Units:** ug/kg | **Target List:** 8081_SL20

Collected: 04/10/07 | **Received:** 04/12/07

Prep Factor: 1 | **Prepared:** 04/16/07 | **Analyzed:** 04/24/07 17:18 SLF

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1000	939000	D1	13800	98500	

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
The Prep Factor accounts for a non-routine sample size.
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For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: LF-B-13 (16-18) | **Site:** None

Project: MS BLUFFS/LA002656.0001 | **Project No.:** 2068454 | **Sample Qu:**

Lab ID: 20513393 | **Matrix:** Soil | **% Moisture:** 32.3 Corrected

Description: None | **Prep Level:** Soil | **Batch:** 84747

Method: 8151 Herbs Low Soil | **Units:** ug/kg | **Target List:** 8151_SL20

Collected: 04/10/07 | **Received:** 04/12/07

Prep Factor: 1 | **Prepared:** 04/21/07 | **Analyzed:** 04/26/07 08:04 SPP1

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1000	ND	D1,N	16400	98500	

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit denotes an actual regulatory limit or a client-requested notification limit.

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Phone: 504.469.0333
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LELAP # 02006

Client ID: LF-B-13 (16-18)
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001
Site: None
Lab ID: 20513393
Project No.: 2068454
Description: None
Matrix: Soil
%Moisture: 32.3 Corrected
Collected: 04/10/07
Received: 04/12/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	84672	1	4.81		mg/kg	0.651	1.39	04/16	04/17 13:04	KJR	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Report of Quality Control

Pace Analytical Services, Inc.
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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Method: EPA 8260 **Project:** 2068454 **LCS:** 20515189 4/23/2007 1:52:00 PM

Batch: 84868 **MS:** 20514833 4/19/2007 8:49:00 PM

Units: ug/L **Original for MS:** 20514616 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Acetone	50	48.44	97	50	0.00	56.63	63.72	113	127	12	22 - 165	11 - 171	20	A11
Acetonitrile	550	994	181 *	550	0.00	959.3	953.8	174	173	1	15 - 171	10 - 182	20	
Acrolein	100	49.76	50	100	0.00	59.32	65.61	59	66	10	10 - 150	10 - 150	20	
Acrylonitrile	150	95.06	63	150	0.00	130.3	116.8	87	78	11	10 - 150	10 - 150	20	
Allyl chloride	100	101.9	102	100	0.00	97.51	96.02	98	96	2	30 - 155	34 - 153	20	
Benzene	50	48.58	97	50	0.00	47.98	47.91	96	96	0	70 - 135	60 - 144	20	
Bromodichloromethane	50	51.61	103	50	0.00	53.59	54.62	107	109	2	61 - 156	59 - 156	20	
Bromoform	50	53.83	108	50	0.00	57.26	56.69	115	113	1	56 - 154	50 - 153	20	
Bromomethane	50	41.39	83	50	0.00	41.16	40.87	82	82	1	44 - 158	37 - 165	20	
2-Butanone (MEK)	50	48.88	98	50	0.00	56.8	54.14	114	108	5	32 - 157	20 - 168	20	A11
Carbon disulfide	50	42.5	85	50	0.00	39.27	39.79	79	80	1	40 - 147	36 - 152	20	
Carbon tetrachloride	50	54.46	109	50	0.00	48.64	49.65	97	99	2	50 - 166	44 - 170	20	
Chlorobenzene	50	49.94	100	50	0.00	50.24	50.57	101	101	1	73 - 129	67 - 134	20	
Chloroethane	50	52.06	104	50	0.00	50.16	51.6	100	103	3	38 - 163	34 - 170	20	
Chloroform	50	52.79	106	50	0.00	54.09	53.95	108	108	0	71 - 133	64 - 140	20	
Chloromethane	50	31.8	64	50	0.00	32.65	27.34	65	55	18	32 - 149	22 - 163	20	
Chloroprene	50	51.29	103	50	0.00	47.04	46.98	94	94	0	50 - 141	51 - 134	20	
1,2-Dibromo-3-chloropropa	50	39.97	80	50	0.00	45.44	44.39	91	89	2	34 - 145	28 - 150	20	
Dibromochloromethane	50	52.89	106	50	0.00	56.32	57.09	113	114	1	63 - 147	58 - 147	20	
1,2-Dibromoethane (EDB)	50	54.94	110	50	0.00	63.75	62.58	128	125	2	60 - 147	55 - 149	20	
Dibromomethane	50	48.26	97	50	0.00	57.35	57.06	115	114	1	60 - 147	56 - 148	20	
trans-1,4-Dichloro-2-butene	100	89.12	89	100	0.00	96.64	96.42	97	96	0	17 - 178	21 - 164	20	
1,1-Dichloroethane	50	47.2	94	50	0.00	47.93	47.12	96	94	2	64 - 135	59 - 142	20	
1,2-Dichloroethane	50	51.76	104	50	0.00	58.78	58.56	118	117	0	53 - 164	51 - 161	20	
1,1-Dichloroethene	50	54.84	110	50	0.00	50.33	51.39	101	103	2	51 - 143	44 - 152	20	
trans-1,2-Dichloroethene	50	53.46	107	50	0.00	50.75	50.19	102	100	1	59 - 139	56 - 145	20	
1,2-Dichloropropane	50	47.41	95	50	0.00	50.67	50.77	101	102	0	69 - 135	66 - 138	20	
cis-1,3-Dichloropropene	50	50.55	101	50	0.00	53.8	53.18	108	106	1	66 - 141	58 - 142	20	
trans-1,3-Dichloropropene	50	53.81	108	50	0.00	56.38	55.07	113	110	2	57 - 150	50 - 151	20	
1,4-Dioxane (p-Dioxane)	1050	996	95	1050	0.00	1282	1361	122	130	6	17 - 176	19 - 172	20	
Ethylbenzene	50	48.77	98	50	0.00	47.08	47	94	94	0	67 - 132	58 - 138	20	
Ethyl methacrylate	100	101.1	101	100	0.00	117.1	115.2	117	115	2	57 - 143	45 - 170	20	
2-Hexanone	50	46.56	93	50	0.00	53.19	54.75	106	110	3	36 - 154	25 - 163	20	
Iodomethane	50	52.14	104	50	0.00	52.73	51.25	106	103	3	43 - 159	36 - 160	20	
Isobutanol	1050	683.1	65	1050	0.00	881.5	910.6	84	87	3	32 - 160	26 - 169	20	
Methacrylonitrile	550	543.7	99	550	0.00	653.9	660.1	119	120	1	10 - 171	10 - 167	20	
Methylene chloride	50	51.09	102	50	2.05	55.84	55.8	108	108	0	29 - 159	19 - 158	20	A11
Methyl methacrylate	100	97.71	98	100	0.00	116.7	116.9	117	117	0	52 - 167	11 - 212	20	
4-Methyl-2-pentanone (MI	50	50.38	101	50	0.00	61.32	59.47	123	119	3	13 - 162	10 - 157	20	

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* denotes recovery outside of QC limits.

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

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Report of Quality Control

Pace Analytical Services, Inc.
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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Method: EPA 8260 **Project:** 2068454 **LCS:** 20515189 4/23/2007 1:52:00 PM

Batch: 84868 **MS:** 20514833 4/19/2007 8:49:00 PM

Units: ug/L **Original for MS:** 20514616 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Propionitrile	550	518.5	94	550	0.00	657	657.8	120	120	0	23 - 159	25 - 158	20	
Styrene	50	51.74	103	50	0.00	53.35	51.72	107	103	3	71 - 134	54 - 144	20	
1,1,1,2-Tetrachloroethane	50	52.4	105	50	0.00	53.34	53.68	107	107	1	73 - 146	65 - 150	20	
1,1,2,2-Tetrachloroethane	50	47.12	94	50	0.00	58.89	58.44	118	117	1	50 - 142	46 - 145	20	
Tetrachloroethene	50	57.69	115	50	0.00	52.41	53.39	105	107	2	42 - 156	39 - 151	20	
Toluene	50	48.07	96	50	0.00	46.82	47.95	94	96	2	72 - 132	64 - 139	20	
1,1,1-Trichloroethane	50	50.75	102	50	0.00	47.97	48.35	96	97	1	65 - 136	59 - 141	20	
1,1,2-Trichloroethane	50	48.94	98	50	0.00	57.53	55.59	115	111	3	67 - 144	60 - 146	20	
Trichloroethene	50	53.17	106	50	0.00	48.99	50.88	98	102	4	69 - 136	61 - 141	20	
Trichlorofluoromethane	50	58.55	117	50	0.00	55.58	55.44	111	111	0	42 - 161	38 - 160	20	
1,2,3-Trichloropropane	50	53.13	106	50	0.00	64.42	62.16	129	124	4	52 - 152	51 - 151	20	
1,2,4-Trimethylbenzene	50	45.87	92	50	0.00	47.76	48.21	96	96	1	59 - 137	41 - 155	20	
1,3,5-Trimethylbenzene	50	44.74	90	50	0.00	46.49	46.81	93	94	1	69 - 135	55 - 150	20	
Vinyl acetate	50	52.88	106	50	0.00	52.42	52.26	105	105	0	21 - 190	10 - 185	20	
Vinyl chloride	50	37.11	74	50	0.00	35.97	31.5	72	63	13	40 - 146	28 - 161	20	
m&p-Xylene	100	99.7	100	100	0.00	97.18	95.91	97	96	1	70 - 129	66 - 132	20	
o-Xylene	50	47.75	96	50	0.00	48.83	47.9	98	96	2	70 - 129	66 - 132	20	

56 compound(s) reported

* denotes recovery outside of QC limits.

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

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Phone: 504.469.0333
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LELAP # 02006

Method: EPA 8270 **Project:** 2068454 **LCS:** 20514147 4/20/2007 2:06:00 PM

Batch: 84741 **MS:** 20514148 4/20/2007 10:51:00 PM

Units: ug/kg **Original for MS:** 20511786 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Acetophenone	1667	1041	63	1667	0.00	578.3	568.3	35 *	34 *	2	40 - 120	40 - 120	20	Q1,D2
bis(2-Ethylhexyl)phthalate	1667	1297	78	1667	0.00	878.3	901.7	53	54	3	41 - 125	14 - 144	20	D2
4-Nitrophenol	1667	1401	84	1667	0.00	0	0	0 *	0 *	0	30 - 132	10 - 138	20	D2
Pentachlorophenol	1667	1206	72	1667	0.00	303.3	301.7	18	18	1	28 - 122	10 - 142	20	D2

4 compound(s) reported

* denotes recovery outside of QC limits.

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

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Report of Batch Surrogate Recovery

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Report: 2068454 **Batch: 84489**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20512865	BLANK P5	93	111	102					
20512866	LCS P5	107	108	103					
20513393	Sample D2,P	59	49 D	47 D					
	QC limits:	45-146	50-137	51-140					

Sur 1: 4-Bromofluorobenzene (S)
Sur 2: Dibromofluoromethane (S)
Sur 3: Toluene-d8 (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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New Orleans Laboratory

Report of Batch Surrogate Recovery

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Report: 2068454 **Batch: 84741**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20513393	Sample D2,P	0 D	0 D	0 D	0 D	0 D	0 D		
20514146	BLANK	70	79	69	71	74	82		
20514147	LCS	71	81	73	73	78	79		
20514148	MS D2	28	35	28	33	29	51		
20514149	MSD D2	27	32	26	31	29	52		
	QC limits:	10-127	18-116	10-109	10-121	20-107	30-113		

Sur 1: 2,4,6-Tribromophenol (S)
Sur 2: 2-Fluorobiphenyl (S)
Sur 3: 2-Fluorophenol (S)
Sur 4: Nitrobenzene-d5 (S)
Sur 5: Phenol-d5 (S)
Sur 6: Terphenyl-d14 (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

4/26/2007 16:59:21

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Report: 2068454 **Batch: 84868**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20513394	Sample S1	139 *	113	99					
20514831	BLANK	120	114	103					
20514832	LCS	115	100	102					
20514833	MS	114	106	102					
20514834	MSD	112	105	104					
20515188	BLANK	127	122	102					
20515189	LCS	110	101	103					
	QC limits:	71-129	68-124	74-122					

Sur 1: 4-Bromofluorobenzene (S)
Sur 2: Dibromofluoromethane (S)
Sur 3: Toluene-d8 (S)

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D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
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A Lab ID with a MSD suffix is a matrix spike duplicate.

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Report of Method Blank

Pace Analytical Services, Inc.
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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20514146
Description: 8270 SVOAs Low Soil **Project No.:** 2068454
Method: EPA 8270 **Batch:** 84741 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 16-Apr-07 **Analyzed:** 04/20/07 13:37 JAM

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
83-32-9	Acenaphthene	1	ND		330.
208-96-8	Acenaphthylene	1	ND		330.
98-86-2	Acetophenone	1	ND		330.
120-12-7	Anthracene	1	ND		330.
1912-24-9	Atrazine	1	ND		330.
100-52-7	Benzaldehyde	1	ND		330.
56-55-3	Benzo(a)anthracene	1	ND		330.
205-99-2	Benzo(b)fluoranthene	1	ND		330.
207-08-9	Benzo(k)fluoranthene	1	ND		330.
65-85-0	Benzoic acid	1	ND		833.
191-24-2	Benzo(g,h,i)perylene	1	ND		330.
50-32-8	Benzo(a)pyrene	1	ND		330.
100-51-6	Benzyl alcohol	1	ND		330.
92-52-4	Biphenyl (Diphenyl)	1	ND		330.
101-55-3	4-Bromophenylphenyl ether	1	ND		330.
85-68-7	Butylbenzylphthalate	1	ND		330.
105-60-2	Caprolactam	1	ND		330.
86-74-8	Carbazole	1	ND		330.
59-50-7	4-Chloro-3-methylphenol	1	ND		330.
106-47-8	4-Chloroaniline	1	ND		330.
111-91-1	bis(2-Chloroethoxy)methane	1	ND		330.
111-44-4	bis(2-Chloroethyl) ether	1	ND		330.
91-58-7	2-Chloronaphthalene	1	ND		330.
95-57-8	2-Chlorophenol	1	ND		330.
7005-72-3	4-Chlorophenylphenyl ether	1	ND		330.
218-01-9	Chrysene	1	ND		330.
21725-46-2	Cyanazine	1	ND		330.
53-70-3	Dibenz(a,h)anthracene	1	ND		330.
132-64-9	Dibenzofuran	1	ND		330.
95-50-1	1,2-Dichlorobenzene	1	ND		330.
541-73-1	1,3-Dichlorobenzene	1	ND		330.
106-46-7	1,4-Dichlorobenzene	1	ND		330.
91-94-1	3,3'-Dichlorobenzidine	1	ND		667.
120-83-2	2,4-Dichlorophenol	1	ND		330.
84-66-2	Diethylphthalate	1	ND		330.
57-97-6	7,12-Dimethylbenz(a)anthracene	1	ND		330.

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Fax: 504.469.0555
LELAP # 02006

Lab ID: 20514146
Description: 8270 SVOAs Low Soil **Project No.:** 2068454
Method: EPA 8270 **Batch:** 84741 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 16-Apr-07 **Analyzed:** 04/20/07 13:37 JAM

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
105-67-9	2,4-Dimethylphenol	1	ND		330.
131-11-3	Dimethylphthalate	1	ND		330.
84-74-2	Di-n-butylphthalate	1	ND		330.
534-52-1	4,6-Dinitro-2-methylphenol	1	ND		330.
51-28-5	2,4-Dinitrophenol	1	ND		330.
121-14-2	2,4-Dinitrotoluene	1	ND		330.
606-20-2	2,6-Dinitrotoluene	1	ND		330.
117-84-0	Di-n-octylphthalate	1	ND		330.
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		330.
206-44-0	Fluoranthene	1	ND		330.
86-73-7	Fluorene	1	ND		330.
87-68-3	Hexachloro-1,3-butadiene	1	ND		330.
118-74-1	Hexachlorobenzene	1	ND		330.
77-47-4	Hexachlorocyclopentadiene	1	ND		330.
67-72-1	Hexachloroethane	1	ND		330.
193-39-5	Indeno(1,2,3-cd)pyrene	1	ND		330.
78-59-1	Isophorone	1	ND		330.
91-57-6	2-Methylnaphthalene	1	ND		330.
95-48-7	2-Methylphenol (o-Cresol)	1	ND		330.
106-44-5	4-Methylphenol (p-Cresol)	1	ND	A7	330.
91-20-3	Naphthalene	1	ND		330.
88-74-4	2-Nitroaniline	1	ND		330.
99-09-2	3-Nitroaniline	1	ND		330.
100-01-6	4-Nitroaniline	1	ND		330.
98-95-3	Nitrobenzene	1	ND		330.
88-75-5	2-Nitrophenol	1	ND		330.
100-02-7	4-Nitrophenol	1	ND		330.
621-64-7	N-Nitroso-di-n-propylamine	1	ND		330.
86-30-6	N-Nitrosodiphenylamine	1	ND	A10	330.
108-60-1	2,2'-Oxybis(1-chloropropane)	1	ND		330.
87-86-5	Pentachlorophenol	1	ND		330.
85-01-8	Phenanthrene	1	ND		330.
108-95-2	Phenol	1	ND		330.
129-00-0	Pyrene	1	ND		330.
110-86-1	Pyridine	1	ND		330.
120-82-1	1,2,4-Trichlorobenzene	1	ND		330.

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Phone: 504.469.0333
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LELAP # 02006

Lab ID: 20514146
Description: 8270 SVOAs Low Soil **Project No.:** 2068454
Method: EPA 8270 **Batch:** 84741 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 16-Apr-07 **Analyzed:** 04/20/07 13:37 JAM

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
95-95-4	2,4,5-Trichlorophenol	1	ND		330.
88-06-2	2,4,6-Trichlorophenol	1	ND		330.

74 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
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Phone: 504.469.0333
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LELAP # 02006

Lab ID: 20515188

Description: 8260 VOAs Full List Water BLK **Project No.:** 2068454

Method: EPA 8260 **Batch:** 84868 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 23-Apr-07 **Analyzed:** 04/23/07 13:33 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
67-64-1	Acetone	1	ND	A11	10.0
75-05-8	Acetonitrile	1	ND		100.
107-02-8	Acrolein	1	ND		20.0
107-13-1	Acrylonitrile	1	ND		20.0
107-05-1	Allyl chloride	1	ND		10.0
71-43-2	Benzene	1	ND		5.00
75-27-4	Bromodichloromethane	1	ND		5.00
75-25-2	Bromoform	1	ND		5.00
74-83-9	Bromomethane	1	ND		5.00
78-93-3	2-Butanone (MEK)	1	ND	A11	10.0
75-15-0	Carbon disulfide	1	ND		5.00
56-23-5	Carbon tetrachloride	1	ND		5.00
108-90-7	Chlorobenzene	1	ND		5.00
75-00-3	Chloroethane	1	ND		5.00
67-66-3	Chloroform	1	ND		5.00
74-87-3	Chloromethane	1	ND		5.00
126-99-8	Chloroprene	1	ND		5.00
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.00
124-48-1	Dibromochloromethane	1	ND		5.00
106-93-4	1,2-Dibromoethane (EDB)	1	ND		5.00
74-95-3	Dibromomethane	1	ND		5.00
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		5.00
75-71-8	Dichlorodifluoromethane	1	ND		5.00
75-34-3	1,1-Dichloroethane	1	ND		5.00
107-06-2	1,2-Dichloroethane	1	ND		5.00
75-35-4	1,1-Dichloroethene	1	ND		5.00
156-59-2	cis-1,2-Dichloroethene	1	ND		5.00
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00
78-87-5	1,2-Dichloropropane	1	ND		5.00
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		250.
100-41-4	Ethylbenzene	1	ND		5.00
97-63-2	Ethyl methacrylate	1	ND		10.0
591-78-6	2-Hexanone	1	ND		10.0
74-88-4	Iodomethane	1	ND		5.00

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LELAP # 02006

Lab ID: 20515188

Description: 8260 VOAs Full List Water BLK **Project No.:** 2068454

Method: EPA 8260 **Batch:** 84868 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 23-Apr-07 **Analyzed:** 04/23/07 13:33 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
78-83-1	Isobutanol	1	ND		250.
98-82-8	Isopropylbenzene (Cumene)	1	ND		5.00
126-98-7	Methacrylonitrile	1	ND		100.
79-20-9	Methyl acetate	1	ND		10.0
75-09-2	Methylene chloride	1	ND	A11	5.00
80-62-6	Methyl methacrylate	1	ND		10.0
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0
1634-04-4	Methyl-tert-butyl ether	1	ND		5.00
107-12-0	Propionitrile	1	ND		20.0
100-42-5	Styrene	1	ND		5.00
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.00
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00
127-18-4	Tetrachloroethene	1	ND		5.00
108-88-3	Toluene	1	ND		5.00
120-82-1	1,2,4-Trichlorobenzene	1	ND		5.00
71-55-6	1,1,1-Trichloroethane	1	ND		5.00
79-00-5	1,1,2-Trichloroethane	1	ND		5.00
79-01-6	Trichloroethene	1	ND		5.00
75-69-4	Trichlorofluoromethane	1	ND		5.00
96-18-4	1,2,3-Trichloropropane	1	ND		5.00
95-63-6	1,2,4-Trimethylbenzene	1	ND		5.00
108-67-8	1,3,5-Trimethylbenzene	1	ND		5.00
108-05-4	Vinyl acetate	1	ND		10.0
75-01-4	Vinyl chloride	1	ND		5.00
	m&p-Xylene	1	ND		10.0
95-47-6	o-Xylene	1	ND		5.00

62 compound(s) reported

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Report of Quality Control

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Phone: 504.469.0333
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LELAP # 02006

Method: EPA 8151 **Project:** 2068454 **LCS:** 20514171 4/25/2007 11:36:00 AM

Batch: 84747 **MS:** 20514172 4/26/2007 8:32:00 AM

Units: ug/kg **Original for MS:** 20513393 Client Sample

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Dinoseb	166.7	225.5	135	246.1	81840.00	77370	95580	0 *	5580 *	21 *	10 - 188	10 - 189	20	D1

1 compound(s) reported

* denotes recovery outside of QC limits.

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

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Report of Batch Surrogate Recovery

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Report: 2068454 **Batch: 84521**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20512972	BLANK	105	105	91	89				
20512973	LCS	96	101	86	84				
20512974	MS D2,Q	168	97	0 D	76				
20512975	MSD D2,Q	3710 D	94	0 D	49				
20513393	Sample D1	0 D	0 D	0 D	0 D				
20514168	BLANK	93	87	88	91				
20514169	LCS	72	71	72	66				
	QC limits:	15-172	15-172	10-151	10-151				

Sur 1: Decachlorobiphenyl (Conf)(S)
Sur 2: Decachlorobiphenyl (S)
Sur 3: Tetrachloro-m-xylene (Conf)(S)
Sur 4: Tetrachloro-m-xylene (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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Report of Batch Surrogate Recovery

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Phone: 504.469.0333
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LELAP # 02006

Report: 2068454 **Batch: 84747**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20513393	Sample D1,N	0 D	0 D						
20514170	BLANK	84	84						
20514171	LCS	108	117						
20514172	MS D1	0 D	0 D						
20514173	MSD D1	0 D	0 D						
	QC limits:	10-191	10-191						

Sur 1: 2,4-DCPA (Conf)(S)
Sur 2: 2,4-DCPA (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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Report of Method Blank

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20514168
Description: 8081 Pests Low Soil **Project No.:** 2068454
Method: EPA 8081 **Batch:** 84521 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 16-Apr-07 **Analyzed:** 04/18/07 17:51 SLF

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
309-00-2	Aldrin	1	ND		1.70
319-84-6	alpha-BHC	1	ND		1.70
319-85-7	beta-BHC	1	ND		1.70
319-86-8	delta-BHC	1	ND		1.70
58-89-9	gamma-BHC (Lindane)	1	ND		1.70
57-74-9	Chlordane	1	ND		3.33
72-54-8	4,4'-DDD	1	ND		3.33
72-55-9	4,4'-DDE	1	ND		3.33
50-29-3	4,4'-DDT	1	ND		3.33
60-57-1	Dieldrin	1	ND		3.33
959-98-8	Endosulfan I	1	ND		1.70
33213-65-9	Endosulfan II	1	ND		3.33
1031-07-8	Endosulfan sulfate	1	ND		3.33
72-20-8	Endrin	1	ND		3.33
7421-93-4	Endrin aldehyde	1	ND		3.33
76-44-8	Heptachlor	1	ND		1.70
1024-57-3	Heptachlor epoxide	1	ND		1.70
8001-35-2	Toxaphene	1	ND		66.7

18 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

4/26/2007 16:59:33

New Orleans Laboratory Certifications
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Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

Report of Method Blank

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20514170
Description: 8151 Herbs Low Soil **Project No.:** 2068454
Method: EPA 8151 **Batch:** 84747 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 21-Apr-07 **Analyzed:** 04/25/07 11:09 SPP1

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
88-85-7	Dinoseb	1	ND		66.7

1 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

4/26/2007 16:59:33

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Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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New Orleans Laboratory

Report of Quality Control

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2068454

Parameter	Batch	Blank	ARL	Units	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Arsenic	84672	ND	1.00	mg/kg	100	91.72	92	86.21	42.10	136.9	230.1	110	229 *	51 *	71 - 131	46 - 137	20	

* denotes recovery outside of QC limits.
ARL denotes Adjusted Reporting Limit, corrected for sample size, dilution and moisture content as applicable.
MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

4/26/2007 16:59:36

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Report Qualifiers

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2068454

ALL Qualifiers

Qualifier	Qualifier Description
N	See narrative for a detailed explanation.

Analyte Qualifiers

Qualifier	Qualifier Description
A7	3-Methylphenol and 4-methylphenol coelute under the conditions used for analysis, therefore the precise isomer in the sample cannot be determined. The sample concentration is arbitrarily reported as 4-methylphenol.
A10	N-Nitrosodiphenylamine is reported as diphenylamine.
A11	This analyte is a common solvent. Its presence in field samples may be an artifact of sample collection, transport, laboratory storage or analysis.

General Qualifiers

Qualifier	Qualifier Description
D1	The analysis was performed at a dilution due to the high analyte concentration.
D2	The analysis was performed at a dilution due to the presence of matrix interferences.

QC Qualifiers

Qualifier	Qualifier Description
Q1	The matrix spike recoveries are poor. Acceptable method performance for this analyte has been demonstrated by the laboratory control sample recovery.
S1	The surrogate recovery was above the QC limit. The data are reported without qualification since the associated target analytes were not detected in the sample.

Sample Qualifiers

Qualifier	Qualifier Description
P2	The sample extract could not be concentrated to the method specified final volume. The reporting limit is elevated accordingly.
P5	A medium level preparation was performed based upon screening data or the nature of the sample matrix.

New Orleans Laboratory Certifications
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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

2068454

Page: of

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: ARCADIS	Report To: Craig Derouen	Attention: ARCADIS - Accounts Payable
Address: 10352 Plaza Americana Drive	Copy To: Jane Kennedy	Company Name: ARCADIS
Baton Rouge, Louisiana 70816		Address: 10352 Plaza Americana; Baton Rouge, LA 70819
Email To: Craig.Derouen@arcadis-us.com; Jane.Kennedy@arcadis-us.com	Purchase Order No.:	Pace Quote Reference:
Phone: (225) 292-1004 Fax: (225) 218-9677	Project Name: MS Bluffs (Vicksburg, MS)	Pace Project Manager: Cindy Olavesen
Requested Due Date/TAT:	Project Number: LA002656.0001	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER MDEQ TRGs

SITE LOCATION: ☐ GA ☐ IL ☐ IN ☐ MI ☐ NC ☐ OH ☐ SC ☑ WI ☑ OTHER MS

Section D Required Client Information

SAMPLE ID

One Character per box.
(A-Z, 0-9 / ,-)
Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis: 8260	8270	8081-TOXAPHENE	8151-DINOSEB	ARSENIC	Pace Project Number / Lab I.D.
1	LF-B-13(16-18)	SL	G	04/05/07	1420				3									1	1	1	1	1	20513393
2	TB-01 (040907)	WT	G	04/09/07	—													2					394
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

Additional Comments:

MDEQ Tier 1 TRG Detection Limits

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Gene E Cook/Arcadis	04/13/07	9:00	Mary Hollingsworth/Pace	4-12-07	0900
Mary Hollingsworth/Pace		1015	NJ Miller / Pace	4207	1015

SAMPLE CONDITIONS

Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
	Y/N	Y/N	Y/N
2.0	(Y) N	(Y) N	(Y) N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Gene E Cook

SIGNATURE of SAMPLER:

DATE Signed (MM / DD / YY)

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

206454

Page: of

Section A — **Required** Client Information:

Company: ARCADIS	
Address: 10352 Plaza Americana Drive	
Baton Rouge, Louisiana 70816	
Email To: Craig.Derouen@arcadis-us.com; Jane.Kennedy@arcadis-us.com	
Phone: (225) 292-1004 Fax: (225) 218-9677	
Requested Due Date/TAT:	

Section B — **Required** Project Information:

Report To: Craig Derouen
Copy To: Jane Kennedy
Purchase Order No.:
Project Name: MS Bluffs (Vicksburg, MS)
Project Number: LA002656.0001

Section C — Invoice Information:

Attention: ARCADIS - Accounts Payable
Company Name: ARCADIS
Address: 10352 Plaza Americana; Baton Rouge, LA 70819
Pace Quote Reference:
Pace Project Manager: Cindy Olavesen
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER MDEQ TRGs

SITE LOCATION ☐ GA ☐ IL ☐ IN ☐ MI ☐ NC ☐ OH ☐ SC ☑ W ☐ OTHER MS

Section D — **Required** Client Information

SAMPLE ID

One Character per box.
(A-Z, 0-9 / ,-)
Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis: 8260	8270	8081-TOXAPHENE	8151-DINOSEB	ARSENIC	Pace Project Number / Lab I.D.
1	LF-B-13(16-18)	SL	G	04/05/07	1420				3									1	1	1	1	1	205133393
2	TB-01(04/05/07)	WT	G	04/05/07	—													2					394
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

Additional Comments:

MDEQ Tier 1 TRG Detection Limits

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
						Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
[illegible]	04/12/07	9:00	[illegible]	4-12-07	0900		Y/N	Y/N	Y/N
[illegible]		1015	NJ Mills / Pace	4/12/07	1015	2.0	Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Craig E Cook

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM / DD / YY):

Pace Analytical®
New Orleans Laboratory

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

April 23, 2007

RECEIVED
APR 2 5 2007
ARCADIS Geraghty & Miller

Craig Derouen
Arcadis Geraghty & Miller
10352 Plaza Americana Drive
Baton Rouge, LA 70816

RE: Project: 2068698
RE: Project ID: MS BLUFFS

Dear Craig Derouen:

Enclosed are the analytical results for sample(s) received by the laboratory on April 20, 2007. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Cindy Olavesen

Cindy Olavesen

ACCREDITED IN ACCORDANCE WITH nelac

REPORT OF LABORATORY ANALYSIS

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Report of Laboratory Analysis

Project Number: 2068698

4/23/2007 17:57:57

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Sample Cross Reference Report

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Project: MS BLUFFS

Project No.: 2068698

Sample ID	Lab ID	Matrix	Collection Date/Time		Received Date/Time	
GP-SB-32(0-2)	20515144	Soil	04/18/2007	16:42	04/20/2007	10:00
GP-SB-32(2-4)	20515145	Soil	04/18/2007	16:50	04/20/2007	10:00

4/23/2007 17:58:00

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Kansas Dept. of Health Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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Project Narrative

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: **2068698**

Sample Receipt Condition:

All samples were received in accordance with EPA protocol.

Holding Times:

All holding times were met.

Blanks:

All blank results were below reporting limits.

Laboratory Control Samples:

All LCS recoveries were within QC limits.

Matrix Spikes and Duplicates:

All MS/MSD recoveries or duplicate RPDs were within QC limits.

Surrogates:

All surrogate recoveries were within QC limits.

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Project Narrative

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2068698

Analytical Method	Batch	Sample used for QC
EPA 8081	84926	Project sample GP-SB-32(0-2)
% Moisture	84921	Batch sample from another client
% Moisture	84921	Project sample GP-SB-32(0-2)

4/23/2007 17:58:28

For the sample used as the original for the DUP or MS/MSD for the batch:

Project sample means a sample from this project was used.
Client sample means a sample from the same client but in a different project was used.
Batch sample means a sample from the a different client was used.

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Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-32(0-2)
Site: None
Project: MS BLUFFS
Project No.: 2068698
Sample Qu:
Lab ID: 20515144
Matrix: Soil
% Moisture: 16.1 Corrected
Description: None
Prep Level: Soil
Batch: 84926
Method: 8081 Pests Low Soil
Units: ug/kg
Target List: 8081_SL20
Collected: 04/18/07
Received: 04/20/07
Prep Factor: 1
Prepared: 04/20/07
Analyzed: 04/20/07 21:39 SLF

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		79.5	

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit denotes an actual regulatory limit or a client-requested notification limit.

4/23/2007 17:58:31

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Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-32(2-4)
Site: None
Project: MS BLUFFS
Project No.: 2068698
Sample Qu:
Lab ID: 20515145
Matrix: Soil
% Moisture: 25.4 Corrected
Description: None
Prep Level: Soil
Batch: 84926
Method: 8081 Pests Low Soil
Units: ug/kg
Target List: 8081_SL20
Collected: 04/18/07
Received: 04/20/07
Prep Factor: 1
Prepared: 04/23/07
Analyzed: 04/23/07 15:51 SLF

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		89.4	

1 compound(s) reported

4/23/2007 17:58:31

ND denotes Not Detected at or above the adjusted reporting limit.
The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit denotes an actual regulatory limit or a client-requested notification limit.

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Report of Batch Surrogate Recovery

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Report: 2068698 **Batch: 84926**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20515144	Sample	73	72	62	70				
20515145	Sample	62	65	53	53				
20515190	BLANK	87	89	78	79				
20515191	LCS	86	91	74	74				
20515192	MS	56	58	71	59				
20515193	MSD	46	46	47	47				
20515646	BLANK	98	89	88	87				
20515647	LCS	94	100	82	82				
	QC limits:	15-172	15-172	10-151	10-151				

Sur 1: Decachlorobiphenyl (Conf)(S)
Sur 2: Decachlorobiphenyl (S)
Sur 3: Tetrachloro-m-xylene (Conf)(S)
Sur 4: Tetrachloro-m-xylene (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

4/23/2007 17:58:34

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Report of Method Blank

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20515190
Description: 8081 Pests Low Soil **Project No.:** 2068698
Method: EPA 8081 **Batch:** 84926 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 20-Apr-07 **Analyzed:** 04/20/07 21:07 SLF

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
8001-35-2	Toxaphene	1	ND		66.7

1 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

4/23/2007 17:58:37

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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New Orleans Laboratory

Report of Method Blank

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20515646
Description: 8081 Pests Low Soil **Project No.:** 2068698
Method: EPA 8081 **Batch:** 84926 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 23-Apr-07 **Analyzed:** 04/23/07 15:18 SLF

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
8001-35-2	Toxaphene	1	ND		66.7

1 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

4/23/2007 17:58:37

New Orleans Laboratory Certifications
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Kansas Dept. of Health Environment - E-10266
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ARCADIS

Laboratory Task Order No./P.O. No.

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name Miss Bluffs/LA002656.0001.00012

Project Location Vicksburg, Miss.

Laboratory Pace

Project Manager Craig Derouen

Sampler(s)/Affiliation G Cook / Arcadis

2068698

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE: Arsenic 1-4oz Clr. Glass/4°C	Toxaphene 1-4oz Clear Glass/4°C					Remarks	Total
GP-SB-28 (0-2)	S	04-18-07 1245		1	—						1
GP-SB-28 (2-4)	S	1250		1	—						1
GP-SB-27 (0-2)	S	1300		1	—						1
GP-SB-27 (2-4)	S	1305		1	—						1
GP-SB-29 (0-2)	S	1438		—	1						1
GP-SB-29 (2-4)	S	1430		—	1						1
GP-SB-30 (0-2)	S	1518		—	1						1
GP-SB-30 (2-4)	S	1530		—	1						1
GP-SB-31 (0-2)	S	1545		—	1						1
GP-SB-31 (2-4)	S	1555		—	1						1
GP-SB 13B (2-4)	S	1616		—	1						1
GP-SB-13B (4-6)	S	1620		—	1						1
* GP-SB-13B (6-8)	S	1625		—	1	(Hold)		147		SEE Below	1
* GP-SB-32 (0-2)	S	1642		—	1		2056	144		" "	1
* GP-SB-32 (2-4)	S	1650		—	1			145		" "	1

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers 15

Relinquished by: George E Cook	Organization: Arcadis	Date 04/19/07	Time 1630	Seal Intact?
Received by:	Organization:	Date / /	Time	Yes No N/A
Relinquished by: FedEx	Organization: FedEx	Date 4/20/07	Time 1000	Seal Intact?
Received by: MJ Miller	Organization: Pace	Date 4/20/07	Time 1000	(Yes) No N/A

Special Instructions/Remarks: 3.2°

Lab is to hold Sample GP-SB-13B (6-8) until Further notice.

Samples GP-SB-32 (0-2) and GP-SB-32 (4-6) are to have 48 hr. TAT.

Delivery Method: ☐ In Person ☐ Common Carrier ____ SPECIFY ☐ Lab Courier ☐ Other ____ SPECIFY

AG 05-12/01

ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name Miss Bluffs/LA002656.0001.00012

Project Location Vicksburg, Miss.

Laboratory Pace

Project Manager Craig Denham

Sampler(s)/Affiliation G Cook / Arcadis

2068698

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	Arsenic	1-4 oz Clr. Glass/Ice	Toxaphene	1-4 oz Clr Glass/Ice				Remarks	Total
				ANALYSIS / METHOD / SIZE								
GP-SB-28 (0-2)	S	04-18-07 1245		1	—							1
GPSB-28 (2-4)	S	1250		1	—							1
GP-SB-27 (0-2)	S	1300		1	—							1
GP-SB-27 (2-4)	S	1305		—	1							1
GP-SB-29 (0-2)	S	1438		—	1							1
GP-SB-29 (2-4)	S	1450		—	1							1
GP-SB-30 (0-2)	S	1518		—	1							1
GP-SB-30 (2-4)	S	1530		—	1							1
GP-SB-31 (0-2)	S	1545		—	1							1
GP-SB-31 (2-4)	S	1555		—	1							1
GP-SB-13B (2-4)	S	1616		—	1							1
GP-SB-13B (4-6)	S	1620		—	1							1
* GP-SB-13B (6-8)	S	1625		—	1	(Hold)			147		SEE Below	1
* GP-SB-32 (0-2)	S	1642		—	1			2055-144			" "	1
* GP-SB-32 (2-4)	S	1650		—	1				145		" "	1

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers: 15

					Seal Intact?
Relinquished by: Grant Frodi	Organization: Arcadis	Date 04/19/07	Time 1630		
Received by: _____	Organization: _____	Date / /	Time _____		Yes No N/A
Relinquished by: Fedex	Organization: Fed Ex	Date 4/20/07	Time 1600		Seal Intact?
Received by: MJ Miller	Organization: Pace	Date 4/20/07	Time 1000		Yes No N/A

Special Instructions/Remarks:

Lab is to hold Sample GP-SB-13B (6-8) until Further notice. 3.2°

Samples GP-SB-32 (0-2) and GP-SB-32 (4-6) are to have 48 hr. TAT.

Delivery Method: ☐ In Person ☐ Common Carrier _____ SPECIFY ☐ Lab Courier ☐ Other _____ SPECIFY

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May 04, 2007

Craig Derouen
Arcadis Geraghty & Miller
10352 Plaza Americana Drive
Baton Rouge, LA 70816

RE: Project: 2068702
RE: Project ID: MS BLUFFS

Dear Craig Derouen:

Enclosed are the analytical results for sample(s) received by the laboratory on April 20, 2007. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Cindy Olavesen

Cindy Olavesen

ACCREDITED IN ACCORDANCE WITH nelac

REPORT OF LABORATORY ANALYSIS

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Report of Laboratory Analysis

Project Number: 2068702

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Sample Cross Reference Report

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Phone: 504.469.0333
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Client: Arcadis Geraghty & Miller

Project: MS BLUFFS

Project No.: 2068702

Sample ID	Lab ID	Matrix	Collection Date/Time		Received Date/Time	
GP-SB-28 (0-2)	20515200	Soil	04/18/2007	12:45	04/20/2007	10:00
GP-SB-28 (2-4)	20515205	Soil	04/18/2007	12:50	04/20/2007	10:00
GP-SB-27 (0-2)	20515206	Soil	04/18/2007	13:00	04/20/2007	10:00
GP-SB-27 (2-4)	20515209	Soil	04/18/2007	13:05	04/20/2007	10:00
GP-SB-29 (0-2)	20515212	Soil	04/18/2007	14:38	04/20/2007	10:00
GP-SB-29 (2-4)	20515215	Soil	04/18/2007	14:50	04/20/2007	10:00
GP-SB-30 (0-2)	20515216	Soil	04/18/2007	15:18	04/20/2007	10:00
GP-SB-30 (2-4)	20515217	Soil	04/18/2007	15:30	04/20/2007	10:00
GP-SB-31 (0-2)	20515218	Soil	04/18/2007	15:45	04/20/2007	10:00
GP-SB-31 (2-4)	20515219	Soil	04/18/2007	15:55	04/20/2007	10:00
GP-SB-13B (2-4)	20515220	Soil	04/18/2007	16:16	04/20/2007	10:00
GP-SB-13B (4-6)	20515221	Soil	04/18/2007	16:20	04/20/2007	10:00

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Project Narrative

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Project: **2068702**

Narrative detail for GC semi-volatilves analyses:

The closing calibration analysis that followed these pesticide runs was low biased for most of the toxaphene peaks used to quantitate, wiht an average %D of 40% on both columns.

After the GC performance had been re-established, the samples were re-injected. Closing calibration were again low biased, indicating the problem was due to the matrix.

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Project: **2068702**

Sample Receipt Condition:

All samples were received in accordance with EPA protocol.

Holding Times:

All holding times were met.

Blanks:

All blank results were below reporting limits.

Laboratory Control Samples:

All LCS recoveries were within QC limits.

Matrix Spikes and Duplicates:

MS or MSD recoveries outside of QC limits are qualified in the Report of Quality Control section.

Surrogates:

All surrogate recoveries were within QC limits.

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Project: 2068702

Analytical Method	Batch	Sample used for QC
EPA 8081	85074	Batch sample from another client
EPA 6010	84983	Batch sample from another client
% Moisture	85111	Project sample GP-SB-28 (0-2)

5/4/2007 13:57:22

For the sample used as the original for the DUP or MS/MSD for the batch:

Project sample means a sample from this project was used.
Client sample means a sample from the same client but in a different project was used.
Batch sample means a sample from the a different client was used.

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-29 (0-2) | **Site:** None

Project: MS BLUFFS | **Project No.:** 2068702 | **Sample Qu:**

Lab ID: 20515212 | **Matrix:** Soil | **% Moisture:** 22.2 Corrected

Description: None | **Prep Level:** Soil | **Batch:** 85074

Method: 8081 Pests Low Soil | **Units:** ug/kg | **Target List:** 8081 SL20

Collected: 04/18/07 | **Received:** 04/20/07

Prep Factor: 1 | **Prepared:** 04/25/07 | **Analyzed:** 04/27/07 12:31 SLF

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		12.0	85.8	

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit denotes an actual regulatory limit or a client-requested notification limit.

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-29 (2-4)
Site: None
Project: MS BLUFFS
Project No.: 2068702
Sample Qu:
Lab ID: 20515215
Matrix: Soil
% Moisture: 20.6 Corrected
Description: None
Prep Level: Soil
Batch: 85074
Method: 8081 Pests Low Soil
Units: ug/kg
Target List: 8081_SL20
Collected: 04/18/07
Received: 04/20/07
Prep Factor: 1
Prepared: 04/25/07
Analyzed: 04/27/07 12:48 SLF

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		11.8	84.0	

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-30 (0-2) | **Site:** None

Project: MS BLUFFS | **Project No.:** 2068702 | **Sample Qu:**

Lab ID: 20515216 | **Matrix:** Soil | **% Moisture:** 19.9 Corrected

Description: None | **Prep Level:** Soil | **Batch:** 85074

Method: 8081 Pests Low Soil | **Units:** ug/kg | **Target List:** 8081_SL20

Collected: 04/18/07 | **Received:** 04/20/07

Prep Factor: 1 | **Prepared:** 04/25/07 | **Analyzed:** 04/27/07 13:04 SLF

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		11.7	83.3	

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-30 (2-4)
Site: None
Project: MS BLUFFS
Project No.: 2068702
Sample Qu:
Lab ID: 20515217
Matrix: Soil
% Moisture: 22.3 Corrected
Description: None
Prep Level: Soil
Batch: 85074
Method: 8081 Pests Low Soil
Units: ug/kg
Target List: 8081_SL20
Collected: 04/18/07
Received: 04/20/07
Prep Factor: 1
Prepared: 04/25/07
Analyzed: 04/27/07 13:21 SLF

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		12.0	85.8	

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-31 (0-2)
Site: None
Project: MS BLUFFS
Project No.: 2068702
Sample Qu:
Lab ID: 20515218
Matrix: Soil
% Moisture: 19.6 Corrected
Description: None
Prep Level: Soil
Batch: 85074
Method: 8081 Pests Low Soil
Units: ug/kg
Target List: 8081_SL20
Collected: 04/18/07
Received: 04/20/07
Prep Factor: 1
Prepared: 04/25/07
Analyzed: 04/27/07 13:37 SLF

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	123.		11.6	83.0	

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit denotes an actual regulatory limit or a client-requested notification limit.

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-31 (2-4)
Site: None
Project: MS BLUFFS
Project No.: 2068702
Sample Qu:
Lab ID: 20515219
Matrix: Soil
% Moisture: 20.2 Corrected
Description: None
Prep Level: Soil
Batch: 85074
Method: 8081 Pests Low Soil
Units: ug/kg
Target List: 8081_SL20
Collected: 04/18/07
Received: 04/20/07
Prep Factor: 1
Prepared: 04/25/07
Analyzed: 04/27/07 13:54 SLF

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	354.	Ph	11.7	83.6	

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit denotes an actual regulatory limit or a client-requested notification limit.

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Client: Arcadis Geraghty & Miller

Client ID: GP-SB-13B (2-4)
Site: None
Project: MS BLUFFS
Project No.: 2068702
Sample Qu:
Lab ID: 20515220
Matrix: Soil
% Moisture: 20.8 Corrected
Description: None
Prep Level: Soil
Batch: 85074
Method: 8081 Pests Low Soil
Units: ug/kg
Target List: 8081_SL20
Collected: 04/18/07
Received: 04/20/07
Prep Factor: 1
Prepared: 04/25/07
Analyzed: 04/27/07 14:10 SLF

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		11.8	84.2	

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit denotes an actual regulatory limit or a client-requested notification limit.

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: GP-SB-13B (4-6)
Site: None
Project: MS BLUFFS
Project No.: 2068702
Sample Qu:
Lab ID: 20515221
Matrix: Soil
% Moisture: 20.8 Corrected
Description: None
Prep Level: Soil
Batch: 85074
Method: 8081 Pests Low Soil
Units: ug/kg
Target List: 8081_SL20
Collected: 04/18/07
Received: 04/20/07
Prep Factor: 1
Prepared: 04/25/07
Analyzed: 04/27/07 14:27 SLF

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		11.8	84.2	

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit denotes an actual regulatory limit or a client-requested notification limit.

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Phone: 504.469.0333
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LELAP # 02006

Client ID: GP-SB-28 (0-2)
Project: MS BLUFFS
Lab ID: 20515200
Description: None

Client: Arcadis Geraghty & Miller
Site: None
Project No.: 2068702
Matrix: Soil
%Moisture: 21.7 Corrected
Collected: 04/18/07
Received: 04/20/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	84983	1	ND		mg/kg	0.553	1.18	04/21	04/26 05:05	KJR	

1 parameter(s) reported

5/4/2007 13:57:28

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

Pace Analytical
New Orleans Laboratory

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: GP-SB-28 (2-4)
Project: MS BLUFFS
Lab ID: 20515205
Description: None

Client: Arcadis Geraghty & Miller
Site: None
Project No.: 2068702
Matrix: Soil
%Moisture: 24.1 Corrected
Collected: 04/18/07
Received: 04/20/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	84983	1	0.710	J	mg/kg	0.616	1.32	04/21	04/26 05:10	KJR	

1 parameter(s) reported

5/4/2007 13:57:28

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: GP-SB-27 (0-2)
Project: MS BLUFFS
Lab ID: 20515206
Description: None

Client: Arcadis Geraghty & Miller
Site: None
Project No.: 2068702
Matrix: Soil **%Moisture:** 21.9 Corrected
Collected: 04/18/07 **Received:** 04/20/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	84983	1	ND		mg/kg	0.576	1.23	04/21	04/26 05:15	KJR	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

5/4/2007 13:57:28

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: GP-SB-27 (2-4)
Project: MS BLUFFS
Lab ID: 20515209
Description: None

Client: Arcadis Geraghty & Miller
Site: None
Project No.: 2068702
Matrix: Soil **%Moisture:** 23.4 Corrected
Collected: 04/18/07 **Received:** 04/20/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	84983	1	ND		mg/kg	0.611	1.31	04/21	04/26 05:20	KJR	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

5/4/2007 13:57:28

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Report of Batch Surrogate Recovery

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Report: 2068702 **Batch: 85074**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20515212	Sample	51	41	67	66				
20515215	Sample	67	54	75	69				
20515216	Sample	57	54	70	70				
20515217	Sample	51	49	67	110				
20515218	Sample	44	43	66	68				
20515219	Sample	45	44	70	70				
20515220	Sample	55	58	69	72				
20515221	Sample	50	54	60	63				
20515809	BLANK	77	90	84	80				
20515810	LCS	92	99	82	83				
20515811	MS G1,Q	87	117	68	199 *				
20515812	MSD	78	113	60	58				
QC limits:		15-172	15-172	10-151	10-151				

Sur 1: Decachlorobiphenyl (Conf)(S)
Sur 2: Decachlorobiphenyl (S)
Sur 3: Tetrachloro-m-xylene (Conf)(S)
Sur 4: Tetrachloro-m-xylene (S)

5/4/2007 13:57:31

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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Report of Method Blank

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20515809
Description: 8081 Pests Low Soil **Project No.:** 2068702
Method: EPA 8081 **Batch:** 85074 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 25-Apr-07 **Analyzed:** 04/27/07 09:47 SLF

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
309-00-2	Aldrin	1	ND		1.70
319-84-6	alpha-BHC	1	ND		1.70
319-85-7	beta-BHC	1	ND		1.70
319-86-8	delta-BHC	1	ND		1.70
58-89-9	gamma-BHC (Lindane)	1	ND		1.70
5103-71-9	alpha-Chlordane	1	ND		1.70
5103-74-2	gamma-Chlordane	1	ND		1.70
72-54-8	4,4'-DDD	1	ND		3.33
72-55-9	4,4'-DDE	1	ND		3.33
50-29-3	4,4'-DDT	1	ND		3.33
60-57-1	Dieldrin	1	ND		3.33
959-98-8	Endosulfan I	1	ND		1.70
33213-65-9	Endosulfan II	1	ND		3.33
1031-07-8	Endosulfan sulfate	1	ND		3.33
72-20-8	Endrin	1	ND		3.33
7421-93-4	Endrin aldehyde	1	ND		3.33
53494-70-5	Endrin ketone	1	ND		3.33
76-44-8	Heptachlor	1	ND		1.70
1024-57-3	Heptachlor epoxide	1	ND		1.70
72-43-5	Methoxychlor	1	ND		16.7
8001-35-2	Toxaphene	1	ND		66.7

21 compound(s) reported

5/4/2007 13:57:34

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Report of Quality Control

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2068702

Parameter	Batch	Blank	ARL	Units	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Arsenic	84983	ND	1.00	mg/kg	100	95.92	96	106.3	0.00	91.67	91.52	86	88	0	71 - 131	46 - 137	20	

* denotes recovery outside of QC limits.
ARL denotes Adjusted Reporting Limit, corrected for sample size, dilution and moisture content as applicable.
MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

5/4/2007 13:57:37

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Report Qualifiers

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2068702

Analyte Qualifiers

Qualifier	Qualifier Description
G1	Interferences are present which caused poor surrogate recovery.
J	This estimated value for the analyte is below the adjusted reporting limit but above the instrument reporting limit.
Ph	The relative percent difference between the two detectors is greater than 40%, indicating interference on one or more detectors. The higher of the two values is reported.

QC Qualifiers

Qualifier	Qualifier Description
Q1	The matrix spike recoveries are poor. Acceptable method performance for this analyte has been demonstrated by the laboratory control sample recovery.

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ARCADIS

Laboratory Task Order No./P.O. No. _____ **CHAIN-OF-CUSTODY RECORD** Page 1 of 1

Project Number/Name: Miss Bluffs/LA002656.0001.00012

Project Location: Vicksburg, Miss.

Laboratory: Pace

Project Manager: Greg Dereamo

Sampler(s)/Affiliation: G. Cook / Arcadis

2068702

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE: Arsenic	1-4oz Chlorides/1yr	Toxaphene	1-4oz Chlorides/1yr				Remarks	Total
GP-SB-28 (0-2)	S	04-18-07 1345		1	—						205 205 200	1
GP-SB-28 (2-4)	S	1350		1	—						205	1
GP-SB-27 (0-2)	S	1300		1	—						206	1
GP-SB-27 (2-4)	S	1305		1	—						207	1
GP-SB-29 (0-2)	S	1438		—	1						212	1
GP-SB-29 (2-4)	S	1450		—	1						215	1
GP-SB-30 (0-2)	S	1518		—	1						216	1
GP-SB-30 (2-4)	S	1530		—	1						217	1
GP-SB-31 (0-2)	S	1545		—	1						218	1
GP-SB-31 (2-4)	S	1555		—	1						219	1
GP-SB-13B (2-4)	S	1616		—	1						220	1
GP-SB-13B (4-6)	S	1620		—	1						221	1
* GP-SB-13B (6-8)	S	1625		—	1						SEE Below	1
* GP-SB-32 (0-2)	S	1642		—	1						" "	1
* GP-SB-32 (2-4)	S	1650		—	1						" "	1

Add'l PM's sent 2068698

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers: 15

						Seal Intact?
Relinquished by: George E Cook	Organization: Arcadis	Date 04/19/07	Time 1630			Yes No N/A
Received by: _____	Organization: _____	Date / /	Time _____			
Relinquished by: Fed Ex	Organization: Fed Ex	Date 4/20/07	Time 1000			Seal Intact?
Received by: MJ Miller	Organization: Pace	Date 4/20/07	Time 1000			Yes No N/A

Special Instructions/Remarks:

Lab is to hold Sample GP-SB-13B (6-8) until Further notice 3.2°

Samples GP-SB-32 (0-2) and GP-SB-32 (4-6) are to have 48 hr. TAT.

Delivery Method: ☐ In Person ☐ Common Carrier _____ SPECIFY ☐ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

ARCADIS

Laboratory Task Order No./P.O. No. _____ **CHAIN-OF-CUSTODY RECORD** Page 1 of 1

Project Number/Name: Miss Bluffs/LA002656.0001.00012

Project Location: Vicksburg, Miss.

Laboratory: Pace

Project Manager: Greg Derouen

Sampler(s)/Affiliation: G. Cook / Arcadis

2068702

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	Arsenic	1-4 or Chlorobenzene/Toxaphene	1-4 or Chlorobenzene/Toxaphene				Remarks	Total
GP-SB-28 (0-2)	S	04-18-07 1245		1	—					205 | 205	1
GP-SB-28 (2-4)	S	1250		1	—					205	1
GP-SB-27 (0-2)	S	1300		1	—					206	1
GP-SB-27 (2-4)	S	1305		1	—					207	1
GP-SB-29 (0-2)	S	1438		—	1					212	1
GP-SB-29 (2-4)	S	1450		—	1					215	1
GP-SB-30 (0-2)	S	1518		—	1					216	1
GP-SB-30 (2-4)	S	1530		—	1					217	1
GP-SB-31 (0-2)	S	1545		—	1					218	1
GP-SB-31 (2-4)	S	1555		—	1					219	1
GP-SB-13B (2-4)	S	1616		—	1					220	1
GP-SB-13B (4-6)	S	1620		—	1					221	1
* GP-SB-13B (6-8)	S	1625		—	1					SEE Below	1
* GP-SB-32 (0-2)	S	1642		—	1					" "	1
* GP-SB-32 (2-4)	S	1650		—	1					" "	1

see PM's list 2068698

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers: 15

						Seal Intact?
Relinquished by:	George E Cook	Organization:	Arcadis	Date 04/19/07	Time 1630	
Received by:		Organization:		Date / /	Time	Yes No N/A
Relinquished by:	Fed Ex	Organization:	Fed Ex	Date 4/20/07	Time 1600	Seal Intact?
Received by:	MJ Miller	Organization:	Pace	Date 4/20/07	Time 1600	Yes No N/A

Special Instructions/Remarks:

Lab is to hold Sample GP-SB-13B (6-8) until Further notice 3.2°

Samples GP-SB-32 (0-2) and GP-SB-32 (4-6) are to have 48 hr. TAT.

Delivery Method: ☐ In Person ☐ Common Carrier _____ SPECIFY ☐ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

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Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

May 18, 2007

Craig Derouen
Arcadis Geraghty & Miller
10352 Plaza Americana Drive
Baton Rouge, LA 70816

RE: Project: 2068847
RE: Project ID: MS BLUFFS/LA002656.0001

Dear Craig Derouen:

Enclosed are the analytical results for sample(s) received by the laboratory on April 25, 2007. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Cindy Olavesen

Cindy Olavesen

ACCREDITED IN ACCORDANCE WITH nelac

REPORT OF LABORATORY ANALYSIS

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Report of Laboratory Analysis

Project Number: 2068847

5/18/2007 17:27:46

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Sample Cross Reference Report

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.0001

Project No.: 2068847

Sample ID	Lab ID	Matrix	Collection Date/Time		Received Date/Time	
T-552	20516310	Other	04/23/2007	11:45	04/25/2007	14:50
T-543	20516311	Other	04/23/2007	13:30	04/25/2007	14:50
T-512	20516312	Other	04/23/2007	14:21	04/25/2007	14:50
T-549	20516313	Other	04/23/2007	14:45	04/25/2007	14:50
T-516	20516314	Other	04/23/2007	15:30	04/25/2007	14:50
T-1109	20516315	Other	04/24/2007	07:50	04/25/2007	14:50
T-1110	20516316	Other	04/24/2007	08:40	04/25/2007	14:50
T-2014	20516317	Other	04/24/2007	11:00	04/25/2007	14:50
T-561	20516318	Water	04/23/2007	13:00	04/25/2007	14:50
T-513	20516320	Water	04/23/2007	14:00	04/25/2007	14:50
T-540	20516321	Water	04/23/2007	15:05	04/25/2007	14:50

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Project Narrative

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Phone: 504.469.0333
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LELAP # 02006

Project: **2068847**

Narrative detail for GC semi-volatiles analyses:

Sample 20516317 required re-extraction due to low surrogate recoveries. The sample was re-leached and re-extracted within the holding time limits. Surrogate recoveries were within limits for the rerun. Results reported are based on the re-analysis.

Herbicide samples 20516318 and 20516320 were re-extracted due to low surrogate recoveries. Re-extractions were performed outside the holding time. Both sets of results were included in the report for these two samples.

Surrogate recoveries were within QC limits for the re-extraction of herbicide sample 20516320, which had the confirmation column surrogate below 10% in the original extraction.

The re-extraction for herbicide sample 20516318 again yielded low surrogate recoveries, indicating a matrix effect.

Narrative detail for GC/MS semi-volatiles analyses:

Sample 20516318 required re-extraction due to poor surrogate recoveries. The sample was releached outside the holding time by one day and re-extracted. Re-analysis results were similar to original, indicating a matrix effect.

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Project Narrative

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: **2068847**

Sample Receipt Condition:

All samples were received in accordance with EPA protocol.

Holding Times:

All holding times were met.

Blanks:

All blank results were below reporting limits.

Laboratory Control Samples:

All LCS recoveries were within QC limits.

Matrix Spikes and Duplicates:

MS or MSD recoveries outside of QC limits are qualified in the Report of Quality Control section.

Surrogates:

Surrogate recoveries outside of QC limits are qualified in the surrogate results section.

Regulatory, Permit or Client Specified Limits:

Results were found that exceeded regulatory, permit or client specified limits:

Method EPA 6010 sample 20516318 Selenium reporting limit 2mg/L is greater than 1mg/L limit

Method EPA 6010 sample 20516320 Selenium reporting limit 2mg/L is greater than 1mg/L limit

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2068847

Analytical Method	Batch	Sample used for QC
EPA 8081	85398	Project sample T-552
EPA 8151	85427	Project sample T-543
EPA 6010	85281	Batch sample from another client
EPA 6010	85554	Batch sample from another client
EPA 7470	85282	Project sample T-552
EPA 7470	85555	Batch sample from another client
EPA 8270	85428	Project sample T-512
EPA 8260	85335	Project sample T-552
EPA 9040	85183	Batch sample from another client
SW-846 7.3.4.2	85287	Batch sample from another client
EPA 9045	85410	Project sample T-552
SW-846 7.3.3.2	85286	Batch sample from another client

For the sample used as the original for the DUP or MS/MSD for the batch:

Project sample means a sample from this project was used.
Client sample means a sample from the same client but in a different project was used.
Batch sample means a sample from the a different client was used.

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Pennsylvania DEP (NELAC) 68-04202

Pace Analytical®
New Orleans Laboratory

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: T-552
Site: None
Project: MS BLUFFS/LA002656.0001
Project No.: 2068847
Sample Qu:
Lab ID: 20516310 (TCLP)
Matrix: Other
% Moisture: n/a
Description: None
Prep Level: TCLP
Batch: 85335
Method: 8260 VOAs TCLP
Units: mg/L
Target List: 8260_LL20
Collected: 04/23/07
Received: 04/25/07
Prep Factor: 1
Prepared: 05/01/07
Analyzed: 05/01/07 13:17 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	ND		0.100	0.500
78-93-3	2-Butanone (MEK)	1	ND	A11	0.200	200.
56-23-5	Carbon tetrachloride	1	ND		0.100	0.500
108-90-7	Chlorobenzene	1	ND		0.100	100.
67-66-3	Chloroform	1	ND		0.100	6.00
107-06-2	1,2-Dichloroethane	1	ND		0.100	0.500
75-35-4	1,1-Dichloroethene	1	ND		0.100	0.700
127-18-4	Tetrachloroethene	1	ND		0.100	0.700
79-01-6	Trichloroethene	1	ND		0.100	0.500
75-01-4	Vinyl chloride	1	ND		0.100	0.200

10 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
A Prep Factor other than 1 accounts for a non-routine sample size.
Reporting/Detection Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit denotes an actual regulatory limit or a client-requested notification limit.

5/18/2007 17:28:30

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Client: Arcadis Geraghty & Miller

Client ID: T-552 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2068847 **Sample Qu:**

Lab ID: 20516310 (TCLP) **Matrix:** Other **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 85428

Method: 8270 SVOAs TCLP **Units:** mg/L **Target List:** 8270_LL20

Collected: 04/23/07 **Received:** 04/25/07

Prep Factor: 1 **Prepared:** 05/04/07 **Analyzed:** 05/07/07 13:46 JAM

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
106-46-7	1,4-Dichlorobenzene	1	ND		0.100	7.50
121-14-2	2,4-Dinitrotoluene	1	ND		0.100	0.130
87-68-3	Hexachloro-1,3-butadiene	1	ND		0.100	0.500
118-74-1	Hexachlorobenzene	1	ND		0.100	0.130
67-72-1	Hexachloroethane	1	ND		0.100	3.00
95-48-7	2-Methylphenol (o-Cresol)	1	ND		0.100	200.
	3&4-Methylphenol	1	ND		0.200	200.
98-95-3	Nitrobenzene	1	ND		0.100	2.00
87-86-5	Pentachlorophenol	1	ND		0.250	100.
110-86-1	Pyridine	1	ND		0.100	5.00
95-95-4	2,4,5-Trichlorophenol	1	ND		0.250	400.
88-06-2	2,4,6-Trichlorophenol	1	ND		0.100	2.00

12 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: T-543 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2068847 **Sample Qu:**

Lab ID: 20516311 (TCLP) **Matrix:** Other **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 85335

Method: 8260 VOAs TCLP **Units:** mg/L **Target List:** 8260_LL20

Collected: 04/23/07 **Received:** 04/25/07

Prep Factor: 1 **Prepared:** 05/01/07 **Analyzed:** 05/01/07 14:29 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	ND		0.100	0.500
78-93-3	2-Butanone (MEK)	1	ND	A11	0.200	200.
56-23-5	Carbon tetrachloride	1	ND		0.100	0.500
108-90-7	Chlorobenzene	1	ND		0.100	100.
67-66-3	Chloroform	1	ND		0.100	6.00
107-06-2	1,2-Dichloroethane	1	ND		0.100	0.500
75-35-4	1,1-Dichloroethene	1	ND		0.100	0.700
127-18-4	Tetrachloroethene	1	ND		0.100	0.700
79-01-6	Trichloroethene	1	ND		0.100	0.500
75-01-4	Vinyl chloride	1	ND		0.100	0.200

10 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: T-543 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2068847 **Sample Qu:**

Lab ID: 20516311 (TCLP) **Matrix:** Other **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 85428

Method: 8270 SVOAs TCLP **Units:** mg/L **Target List:** 8270_LL20

Collected: 04/23/07 **Received:** 04/25/07

Prep Factor: 1 **Prepared:** 05/04/07 **Analyzed:** 05/07/07 14:16 JAM

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
106-46-7	1,4-Dichlorobenzene	1	ND		0.100	7.50
121-14-2	2,4-Dinitrotoluene	1	ND		0.100	0.130
87-68-3	Hexachloro-1,3-butadiene	1	ND		0.100	0.500
118-74-1	Hexachlorobenzene	1	ND		0.100	0.130
67-72-1	Hexachloroethane	1	ND		0.100	3.00
95-48-7	2-Methylphenol (o-Cresol)	1	ND		0.100	200.
	3&4-Methylphenol	1	ND		0.200	200.
98-95-3	Nitrobenzene	1	ND		0.100	2.00
87-86-5	Pentachlorophenol	1	ND		0.250	100.
110-86-1	Pyridine	1	ND		0.100	5.00
95-95-4	2,4,5-Trichlorophenol	1	ND		0.250	400.
88-06-2	2,4,6-Trichlorophenol	1	ND		0.100	2.00

12 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: T-512 | **Site:** None

Project: MS BLUFFS/LA002656.0001 | **Project No.:** 2068847 | **Sample Qu:**

Lab ID: 20516312 (TCLP) | **Matrix:** Other | **% Moisture:** n/a

Description: None | **Prep Level:** TCLP | **Batch:** 85335

Method: 8260 VOAs TCLP | **Units:** mg/L | **Target List:** 8260_LL20

Collected: 04/23/07 | **Received:** 04/25/07

Prep Factor: 1 | **Prepared:** 05/01/07 | **Analyzed:** 05/01/07 14:48 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	ND		0.100	0.500
78-93-3	2-Butanone (MEK)	1	ND	A11	0.200	200.
56-23-5	Carbon tetrachloride	1	ND		0.100	0.500
108-90-7	Chlorobenzene	1	ND		0.100	100.
67-66-3	Chloroform	1	ND		0.100	6.00
107-06-2	1,2-Dichloroethane	1	ND		0.100	0.500
75-35-4	1,1-Dichloroethene	1	ND		0.100	0.700
127-18-4	Tetrachloroethene	1	ND		0.100	0.700
79-01-6	Trichloroethene	1	ND		0.100	0.500
75-01-4	Vinyl chloride	1	ND		0.100	0.200

10 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: T-512 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2068847 **Sample Qu:**

Lab ID: 20516312 (TCLP) **Matrix:** Other **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 85428

Method: 8270 SVOAs TCLP **Units:** mg/L **Target List:** 8270_LL20

Collected: 04/23/07 **Received:** 04/25/07

Prep Factor: 1 **Prepared:** 05/04/07 **Analyzed:** 05/07/07 13:18 JAM

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
106-46-7	1,4-Dichlorobenzene	1	ND		0.100	7.50
121-14-2	2,4-Dinitrotoluene	1	ND		0.100	0.130
87-68-3	Hexachloro-1,3-butadiene	1	ND		0.100	0.500
118-74-1	Hexachlorobenzene	1	ND		0.100	0.130
67-72-1	Hexachloroethane	1	ND		0.100	3.00
95-48-7	2-Methylphenol (o-Cresol)	1	ND		0.100	200.
	3&4-Methylphenol	1	ND		0.200	200.
98-95-3	Nitrobenzene	1	ND		0.100	2.00
87-86-5	Pentachlorophenol	1	ND		0.250	100.
110-86-1	Pyridine	1	ND		0.100	5.00
95-95-4	2,4,5-Trichlorophenol	1	ND		0.250	400.
88-06-2	2,4,6-Trichlorophenol	1	ND		0.100	2.00

12 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: T-549 | **Site:** None

Project: MS BLUFFS/LA002656.0001 | **Project No.:** 2068847 | **Sample Qu:**

Lab ID: 20516313 (TCLP) | **Matrix:** Other | **% Moisture:** n/a

Description: None | **Prep Level:** TCLP | **Batch:** 85335

Method: 8260 VOAs TCLP | **Units:** mg/L | **Target List:** 8260 LL20

Collected: 04/23/07 | **Received:** 04/25/07

Prep Factor: 1 | **Prepared:** 05/01/07 | **Analyzed:** 05/01/07 15:08 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	ND		0.100	0.500
78-93-3	2-Butanone (MEK)	1	ND	A11	0.200	200.
56-23-5	Carbon tetrachloride	1	ND		0.100	0.500
108-90-7	Chlorobenzene	1	ND		0.100	100.
67-66-3	Chloroform	1	ND		0.100	6.00
107-06-2	1,2-Dichloroethane	1	ND		0.100	0.500
75-35-4	1,1-Dichloroethene	1	ND		0.100	0.700
127-18-4	Tetrachloroethene	1	ND		0.100	0.700
79-01-6	Trichloroethene	1	ND		0.100	0.500
75-01-4	Vinyl chloride	1	ND		0.100	0.200

10 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: T-549 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2068847 **Sample Qu:**

Lab ID: 20516313 (TCLP) **Matrix:** Other **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 85428

Method: 8270 SVOAs TCLP **Units:** mg/L **Target List:** 8270 LL20

Collected: 04/23/07 **Received:** 04/25/07

Prep Factor: 1 **Prepared:** 05/04/07 **Analyzed:** 05/07/07 14:43 JAM

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
106-46-7	1,4-Dichlorobenzene	1	ND		0.100	7.50
121-14-2	2,4-Dinitrotoluene	1	ND		0.100	0.130
87-68-3	Hexachloro-1,3-butadiene	1	ND		0.100	0.500
118-74-1	Hexachlorobenzene	1	ND		0.100	0.130
67-72-1	Hexachloroethane	1	ND		0.100	3.00
95-48-7	2-Methylphenol (o-Cresol)	1	ND		0.100	200.
	3&4-Methylphenol	1	ND		0.200	200.
98-95-3	Nitrobenzene	1	ND		0.100	2.00
87-86-5	Pentachlorophenol	1	ND		0.250	100.
110-86-1	Pyridine	1	ND		0.100	5.00
95-95-4	2,4,5-Trichlorophenol	1	ND		0.250	400.
88-06-2	2,4,6-Trichlorophenol	1	ND		0.100	2.00

12 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: T-516 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2068847 **Sample Qu:**

Lab ID: 20516314 (TCLP) **Matrix:** Other **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 85335

Method: 8260 VOAs TCLP **Units:** mg/L **Target List:** 8260 LL20

Collected: 04/23/07 **Received:** 04/25/07

Prep Factor: 1 **Prepared:** 05/01/07 **Analyzed:** 05/01/07 15:27 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	ND		0.100	0.500
78-93-3	2-Butanone (MEK)	1	ND	A11	0.200	200.
56-23-5	Carbon tetrachloride	1	ND		0.100	0.500
108-90-7	Chlorobenzene	1	ND		0.100	100.
67-66-3	Chloroform	1	ND		0.100	6.00
107-06-2	1,2-Dichloroethane	1	ND		0.100	0.500
75-35-4	1,1-Dichloroethene	1	ND		0.100	0.700
127-18-4	Tetrachloroethene	1	ND		0.100	0.700
79-01-6	Trichloroethene	1	ND		0.100	0.500
75-01-4	Vinyl chloride	1	ND		0.100	0.200

10 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: T-516 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2068847 **Sample Qu:**

Lab ID: 20516314 (TCLP) **Matrix:** Other **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 85428

Method: 8270 SVOAs TCLP **Units:** mg/L **Target List:** 8270 LL20

Collected: 04/23/07 **Received:** 04/25/07

Prep Factor: 1 **Prepared:** 05/04/07 **Analyzed:** 05/07/07 16:37 JAM

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
106-46-7	1,4-Dichlorobenzene	1	ND		0.100	7.50
121-14-2	2,4-Dinitrotoluene	1	ND		0.100	0.130
87-68-3	Hexachloro-1,3-butadiene	1	ND		0.100	0.500
118-74-1	Hexachlorobenzene	1	ND		0.100	0.130
67-72-1	Hexachloroethane	1	ND		0.100	3.00
95-48-7	2-Methylphenol (o-Cresol)	1	ND		0.100	200.
	3&4-Methylphenol	1	ND		0.200	200.
98-95-3	Nitrobenzene	1	ND		0.100	2.00
87-86-5	Pentachlorophenol	1	ND		0.250	100.
110-86-1	Pyridine	1	ND		0.100	5.00
95-95-4	2,4,5-Trichlorophenol	1	ND		0.250	400.
88-06-2	2,4,6-Trichlorophenol	1	ND		0.100	2.00

12 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: T-1109 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2068847 **Sample Qu:**

Lab ID: 20516315 (TCLP) **Matrix:** Other **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 85335

Method: 8260 VOAs TCLP **Units:** mg/L **Target List:** 8260_LL20

Collected: 04/24/07 **Received:** 04/25/07

Prep Factor: 1 **Prepared:** 05/01/07 **Analyzed:** 05/01/07 15:46 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	ND		0.100	0.500
78-93-3	2-Butanone (MEK)	1	ND	A11	0.200	200.
56-23-5	Carbon tetrachloride	1	ND		0.100	0.500
108-90-7	Chlorobenzene	1	ND		0.100	100.
67-66-3	Chloroform	1	ND		0.100	6.00
107-06-2	1,2-Dichloroethane	1	ND		0.100	0.500
75-35-4	1,1-Dichloroethene	1	ND		0.100	0.700
127-18-4	Tetrachloroethene	1	ND		0.100	0.700
79-01-6	Trichloroethene	1	ND		0.100	0.500
75-01-4	Vinyl chloride	1	ND		0.100	0.200

10 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
A Prep Factor other than 1 accounts for a non-routine sample size.
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Client: Arcadis Geraghty & Miller

Client ID: T-1109 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2068847 **Sample Qu:**

Lab ID: 20516315 (TCLP) **Matrix:** Other **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 85428

Method: 8270 SVOAs TCLP **Units:** mg/L **Target List:** 8270_LL20

Collected: 04/24/07 **Received:** 04/25/07

Prep Factor: 1 **Prepared:** 05/04/07 **Analyzed:** 05/07/07 18:31 JAM

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
106-46-7	1,4-Dichlorobenzene	1	ND		0.100	7.50
121-14-2	2,4-Dinitrotoluene	1	ND		0.100	0.130
87-68-3	Hexachloro-1,3-butadiene	1	ND		0.100	0.500
118-74-1	Hexachlorobenzene	1	ND		0.100	0.130
67-72-1	Hexachloroethane	1	ND		0.100	3.00
95-48-7	2-Methylphenol (o-Cresol)	1	ND		0.100	200.
	3&4-Methylphenol	1	ND		0.200	200.
98-95-3	Nitrobenzene	1	ND		0.100	2.00
87-86-5	Pentachlorophenol	1	ND		0.250	100.
110-86-1	Pyridine	1	ND		0.100	5.00
95-95-4	2,4,5-Trichlorophenol	1	ND		0.250	400.
88-06-2	2,4,6-Trichlorophenol	1	ND		0.100	2.00

12 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Client: Arcadis Geraghty & Miller

Client ID: T-1110 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2068847 **Sample Qu:**

Lab ID: 20516316 (TCLP) **Matrix:** Other **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 85335

Method: 8260 VOAs TCLP **Units:** mg/L **Target List:** 8260_LL20

Collected: 04/24/07 **Received:** 04/25/07

Prep Factor: 1 **Prepared:** 05/01/07 **Analyzed:** 05/01/07 16:06 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	ND		0.100	0.500
78-93-3	2-Butanone (MEK)	1	ND	A11	0.200	200.
56-23-5	Carbon tetrachloride	1	ND		0.100	0.500
108-90-7	Chlorobenzene	1	ND		0.100	100.
67-66-3	Chloroform	1	ND		0.100	6.00
107-06-2	1,2-Dichloroethane	1	ND		0.100	0.500
75-35-4	1,1-Dichloroethene	1	ND		0.100	0.700
127-18-4	Tetrachloroethene	1	ND		0.100	0.700
79-01-6	Trichloroethene	1	ND		0.100	0.500
75-01-4	Vinyl chloride	1	ND		0.100	0.200

10 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Client: Arcadis Geraghty & Miller

Client ID: T-1110 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2068847 **Sample Qu:**

Lab ID: 20516316 (TCLP) **Matrix:** Other **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 85428

Method: 8270 SVOAs TCLP **Units:** mg/L **Target List:** 8270 LL20

Collected: 04/24/07 **Received:** 04/25/07

Prep Factor: 1 **Prepared:** 05/04/07 **Analyzed:** 05/07/07 18:59 JAM

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
106-46-7	1,4-Dichlorobenzene	1	ND		0.100	7.50
121-14-2	2,4-Dinitrotoluene	1	ND		0.100	0.130
87-68-3	Hexachloro-1,3-butadiene	1	ND		0.100	0.500
118-74-1	Hexachlorobenzene	1	ND		0.100	0.130
67-72-1	Hexachloroethane	1	ND		0.100	3.00
95-48-7	2-Methylphenol (o-Cresol)	1	ND		0.100	200.
	3&4-Methylphenol	1	ND		0.200	200.
98-95-3	Nitrobenzene	1	ND		0.100	2.00
87-86-5	Pentachlorophenol	1	ND		0.250	100.
110-86-1	Pyridine	1	ND		0.100	5.00
95-95-4	2,4,5-Trichlorophenol	1	ND		0.250	400.
88-06-2	2,4,6-Trichlorophenol	1	ND		0.100	2.00

12 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: T-2014 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2068847 **Sample Qu:**

Lab ID: 20516317 (TCLP) **Matrix:** Other **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 85335

Method: 8260 VOAs TCLP **Units:** mg/L **Target List:** 8260_LL20

Collected: 04/24/07 **Received:** 04/25/07

Prep Factor: 1 **Prepared:** 05/01/07 **Analyzed:** 05/01/07 16:25 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	ND		0.100	0.500
78-93-3	2-Butanone (MEK)	1	ND	A11	0.200	200.
56-23-5	Carbon tetrachloride	1	ND		0.100	0.500
108-90-7	Chlorobenzene	1	ND		0.100	100.
67-66-3	Chloroform	1	ND		0.100	6.00
107-06-2	1,2-Dichloroethane	1	ND		0.100	0.500
75-35-4	1,1-Dichloroethene	1	ND		0.100	0.700
127-18-4	Tetrachloroethene	1	ND		0.100	0.700
79-01-6	Trichloroethene	1	ND		0.100	0.500
75-01-4	Vinyl chloride	1	ND		0.100	0.200

10 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: T-2014 | **Site:** None

Project: MS BLUFFS/LA002656.0001 | **Project No.:** 2068847 | **Sample Qu:**

Lab ID: 20516317 (TCLP) | **Matrix:** Other | **% Moisture:** n/a

Description: None | **Prep Level:** TCLP | **Batch:** 85428

Method: 8270 SVOAs TCLP | **Units:** mg/L | **Target List:** 8270_LL20

Collected: 04/24/07 | **Received:** 04/25/07

Prep Factor: 1 | **Prepared:** 05/04/07 | **Analyzed:** 05/07/07 19:26 JAM

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
106-46-7	1,4-Dichlorobenzene	1	ND		0.100	7.50
121-14-2	2,4-Dinitrotoluene	1	ND		0.100	0.130
87-68-3	Hexachloro-1,3-butadiene	1	ND		0.100	0.500
118-74-1	Hexachlorobenzene	1	ND		0.100	0.130
67-72-1	Hexachloroethane	1	ND		0.100	3.00
95-48-7	2-Methylphenol (o-Cresol)	1	ND		0.100	200.
	3&4-Methylphenol	1	ND		0.200	200.
98-95-3	Nitrobenzene	1	ND		0.100	2.00
87-86-5	Pentachlorophenol	1	ND		0.250	100.
110-86-1	Pyridine	1	ND		0.100	5.00
95-95-4	2,4,5-Trichlorophenol	1	ND		0.250	400.
88-06-2	2,4,6-Trichlorophenol	1	ND		0.100	2.00

12 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: T-561 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2068847 **Sample Qu:**

Lab ID: 20516318 (TCLP) **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 85335

Method: 8260 VOAs TCLP **Units:** mg/L **Target List:** 8260_LL20

Collected: 04/23/07 **Received:** 04/25/07

Prep Factor: 1 **Prepared:** 05/03/07 **Analyzed:** 05/03/07 15:38 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	ND	M1	0.100	0.500
78-93-3	2-Butanone (MEK)	1	ND	M1	0.200	200.
56-23-5	Carbon tetrachloride	1	ND	M1	0.100	0.500
108-90-7	Chlorobenzene	1	ND	M1	0.100	100.
67-66-3	Chloroform	1	ND	M1	0.100	6.00
107-06-2	1,2-Dichloroethane	1	ND	M1	0.100	0.500
75-35-4	1,1-Dichloroethene	1	ND	M1	0.100	0.700
127-18-4	Tetrachloroethene	1	ND	M1	0.100	0.700
79-01-6	Trichloroethene	1	ND	M1	0.100	0.500
75-01-4	Vinyl chloride	1	ND	M1	0.100	0.200

10 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: T-561 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2068847 **Sample Qu:**

Lab ID: 20516318 (TCLP)RE2 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 85428

Method: 8270 SVOAs TCLP **Units:** mg/L **Target List:** 8270 LL20

Collected: 04/23/07 **Received:** 04/25/07

Prep Factor: 1 **Prepared:** 05/04/07 **Analyzed:** 05/07/07 15:11 JAM

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
106-46-7	1,4-Dichlorobenzene	1	ND	N	0.100	7.50
121-14-2	2,4-Dinitrotoluene	1	ND	N	0.100	0.130
87-68-3	Hexachloro-1,3-butadiene	1	ND	N	0.100	0.500
118-74-1	Hexachlorobenzene	1	ND	N	0.100	0.130
67-72-1	Hexachloroethane	1	ND	N	0.100	3.00
95-48-7	2-Methylphenol (o-Cresol)	1	ND	N	0.100	200.
	3&4-Methylphenol	1	ND	N	0.200	200.
98-95-3	Nitrobenzene	1	ND	N	0.100	2.00
87-86-5	Pentachlorophenol	1	ND	N	0.250	100.
110-86-1	Pyridine	1	ND	N	0.100	5.00
95-95-4	2,4,5-Trichlorophenol	1	ND	N	0.250	400.
88-06-2	2,4,6-Trichlorophenol	1	ND	N	0.100	2.00

12 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: T-561 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2068847 **Sample Qu:**

Lab ID: 20516318 (TCLP)RE3 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 85684

Method: 8270 SVOAs TCLP **Units:** mg/L **Target List:** 8270_LL20

Collected: 04/23/07 **Received:** 04/25/07

Prep Factor: 1 **Prepared:** 05/09/07 **Analyzed:** 05/10/07 13:42 JAM

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
106-46-7	1,4-Dichlorobenzene	1	ND	N	0.100	7.50
121-14-2	2,4-Dinitrotoluene	1	ND	N	0.100	0.130
87-68-3	Hexachloro-1,3-butadiene	1	ND	N	0.100	0.500
118-74-1	Hexachlorobenzene	1	ND	N	0.100	0.130
67-72-1	Hexachloroethane	1	ND	N	0.100	3.00
95-48-7	2-Methylphenol (o-Cresol)	1	ND	N	0.100	200.
	3&4-Methylphenol	1	ND	N	0.200	200.
98-95-3	Nitrobenzene	1	ND	N	0.100	2.00
87-86-5	Pentachlorophenol	1	ND	N	0.250	100.
110-86-1	Pyridine	1	ND	N	0.100	5.00
95-95-4	2,4,5-Trichlorophenol	1	ND	N	0.250	400.
88-06-2	2,4,6-Trichlorophenol	1	ND	N	0.100	2.00

12 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: T-513 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2068847 **Sample Qu:**

Lab ID: 20516320 (TCLP) **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 85335

Method: 8260 VOAs TCLP **Units:** mg/L **Target List:** 8260_LL20

Collected: 04/23/07 **Received:** 04/25/07

Prep Factor: 1 **Prepared:** 05/01/07 **Analyzed:** 05/01/07 17:03 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	ND		0.100	0.500
78-93-3	2-Butanone (MEK)	1	ND	A11	0.200	200.
56-23-5	Carbon tetrachloride	1	ND		0.100	0.500
108-90-7	Chlorobenzene	1	ND		0.100	100.
67-66-3	Chloroform	1	ND		0.100	6.00
107-06-2	1,2-Dichloroethane	1	ND		0.100	0.500
75-35-4	1,1-Dichloroethene	1	ND		0.100	0.700
127-18-4	Tetrachloroethene	1	ND		0.100	0.700
79-01-6	Trichloroethene	1	ND		0.100	0.500
75-01-4	Vinyl chloride	1	ND		0.100	0.200

10 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: T-513 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2068847 **Sample Qu:**

Lab ID: 20516320 (TCLP) **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 85428

Method: 8270 SVOAs TCLP **Units:** mg/L **Target List:** 8270_LL20

Collected: 04/23/07 **Received:** 04/25/07

Prep Factor: 1 **Prepared:** 05/04/07 **Analyzed:** 05/07/07 15:40 JAM

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
106-46-7	1,4-Dichlorobenzene	1	ND		0.100	7.50
121-14-2	2,4-Dinitrotoluene	1	ND		0.100	0.130
87-68-3	Hexachloro-1,3-butadiene	1	ND		0.100	0.500
118-74-1	Hexachlorobenzene	1	ND		0.100	0.130
67-72-1	Hexachloroethane	1	ND		0.100	3.00
95-48-7	2-Methylphenol (o-Cresol)	1	ND		0.100	200.
	3&4-Methylphenol	1	ND		0.200	200.
98-95-3	Nitrobenzene	1	ND		0.100	2.00
87-86-5	Pentachlorophenol	1	ND		0.250	100.
110-86-1	Pyridine	1	ND		0.100	5.00
95-95-4	2,4,5-Trichlorophenol	1	ND		0.250	400.
88-06-2	2,4,6-Trichlorophenol	1	ND		0.100	2.00

12 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Client: Arcadis Geraghty & Miller

Client ID: T-540 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2068847 **Sample Qu:**

Lab ID: 20516321 (TCLP) **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 85335

Method: 8260 VOAs TCLP **Units:** mg/L **Target List:** 8260_LL20

Collected: 04/23/07 **Received:** 04/25/07

Prep Factor: 1 **Prepared:** 05/01/07 **Analyzed:** 05/01/07 17:22 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	ND		0.100	0.500
78-93-3	2-Butanone (MEK)	1	ND	A11	0.200	200.
56-23-5	Carbon tetrachloride	1	ND		0.100	0.500
108-90-7	Chlorobenzene	1	ND		0.100	100.
67-66-3	Chloroform	1	ND		0.100	6.00
107-06-2	1,2-Dichloroethane	1	ND		0.100	0.500
75-35-4	1,1-Dichloroethene	1	ND		0.100	0.700
127-18-4	Tetrachloroethene	1	ND		0.100	0.700
79-01-6	Trichloroethene	1	ND		0.100	0.500
75-01-4	Vinyl chloride	1	ND		0.100	0.200

10 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: T-540 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2068847 **Sample Qu:**

Lab ID: 20516321 (TCLP) **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 85428

Method: 8270 SVOAs TCLP **Units:** mg/L **Target List:** 8270 LL20

Collected: 04/23/07 **Received:** 04/25/07

Prep Factor: 1 **Prepared:** 05/04/07 **Analyzed:** 05/07/07 16:10 JAM

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
106-46-7	1,4-Dichlorobenzene	1	ND		0.100	7.50
121-14-2	2,4-Dinitrotoluene	1	ND		0.100	0.130
87-68-3	Hexachloro-1,3-butadiene	1	ND		0.100	0.500
118-74-1	Hexachlorobenzene	1	ND		0.100	0.130
67-72-1	Hexachloroethane	1	ND		0.100	3.00
95-48-7	2-Methylphenol (o-Cresol)	1	ND		0.100	200.
	3&4-Methylphenol	1	ND		0.200	200.
98-95-3	Nitrobenzene	1	ND		0.100	2.00
87-86-5	Pentachlorophenol	1	ND		0.250	100.
110-86-1	Pyridine	1	ND		0.100	5.00
95-95-4	2,4,5-Trichlorophenol	1	ND		0.250	400.
88-06-2	2,4,6-Trichlorophenol	1	ND		0.100	2.00

12 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: T-552 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2068847 **Sample Qu:**

Lab ID: 20516310 (TCLP) **Matrix:** Other **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 85398

Method: 8081 Pests TCLP **Units:** mg/L **Target List:** 8081 LL20

Collected: 04/23/07 **Received:** 04/25/07

Prep Factor: 1 **Prepared:** 05/02/07 **Analyzed:** 05/07/07 19:44 SLF

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
58-89-9	gamma-BHC (Lindane)	1	ND		0.000500	0.400
57-74-9	Chlordane	1	ND		0.00100	0.0300
72-20-8	Endrin	1	ND		0.00100	0.0200
76-44-8	Heptachlor	1	ND		0.000500	0.00800
1024-57-3	Heptachlor epoxide	1	ND		0.000500	0.00800
72-43-5	Methoxychlor	1	ND		0.00500	10.0
8001-35-2	Toxaphene	1	ND		0.0200	0.500

7 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: T-552 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2068847 **Sample Qu:**

Lab ID: 20516310 (TCLP) **Matrix:** Other **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 85427

Method: 8151 Herbs TCLP **Units:** mg/L **Target List:** 8151 LL20

Collected: 04/23/07 **Received:** 04/25/07

Prep Factor: 1 **Prepared:** 05/03/07 **Analyzed:** 05/10/07 20:10 SRA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
94-75-7	2,4-D	1	ND		0.0200	10.0
93-72-1	2,4,5-TP (Silvex)	1	ND		0.0200	1.00

2 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Client: Arcadis Geraghty & Miller

Client ID: T-543 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2068847 **Sample Qu:**

Lab ID: 20516311 (TCLP) **Matrix:** Other **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 85398

Method: 8081 Pests TCLP **Units:** mg/L **Target List:** 8081_LL20

Collected: 04/23/07 **Received:** 04/25/07

Prep Factor: 1 **Prepared:** 05/02/07 **Analyzed:** 05/07/07 20:33 SLF

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
58-89-9	gamma-BHC (Lindane)	1	ND		0.000500	0.400
57-74-9	Chlordane	1	ND		0.00100	0.0300
72-20-8	Endrin	1	ND		0.00100	0.0200
76-44-8	Heptachlor	1	ND		0.000500	0.00800
1024-57-3	Heptachlor epoxide	1	ND		0.000500	0.00800
72-43-5	Methoxychlor	1	ND		0.00500	10.0
8001-35-2	Toxaphene	1	ND		0.0200	0.500

7 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: T-543 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2068847 **Sample Qu:**

Lab ID: 20516311 (TCLP) **Matrix:** Other **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 85427

Method: 8151 Herbs TCLP **Units:** mg/L **Target List:** 8151_LL20

Collected: 04/23/07 **Received:** 04/25/07

Prep Factor: 1 **Prepared:** 05/03/07 **Analyzed:** 05/10/07 20:38 SRA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
94-75-7	2,4-D	1	ND		0.0200	10.0
93-72-1	2,4,5-TP (Silvex)	1	ND		0.0200	1.00

2 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: T-512 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2068847 **Sample Qu:**

Lab ID: 20516312 (TCLP) **Matrix:** Other **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 85398

Method: 8081 Pests TCLP **Units:** mg/L **Target List:** 8081_LL20

Collected: 04/23/07 **Received:** 04/25/07

Prep Factor: 1 **Prepared:** 05/02/07 **Analyzed:** 05/07/07 20:50 SLF

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
58-89-9	gamma-BHC (Lindane)	1	ND		0.000500	0.400
57-74-9	Chlordane	1	ND		0.00100	0.0300
72-20-8	Endrin	1	ND		0.00100	0.0200
76-44-8	Heptachlor	1	ND		0.000500	0.00800
1024-57-3	Heptachlor epoxide	1	ND		0.000500	0.00800
72-43-5	Methoxychlor	1	ND		0.00500	10.0
8001-35-2	Toxaphene	1	ND		0.0200	0.500

7 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: T-512 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2068847 **Sample Qu:**

Lab ID: 20516312 (TCLP) **Matrix:** Other **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 85427

Method: 8151 Herbs TCLP **Units:** mg/L **Target List:** 8151 LL20

Collected: 04/23/07 **Received:** 04/25/07

Prep Factor: 1 **Prepared:** 05/03/07 **Analyzed:** 05/10/07 22:00 SRA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
94-75-7	2,4-D	1	ND		0.0200	10.0
93-72-1	2,4,5-TP (Silvex)	1	ND		0.0200	1.00

2 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Client: Arcadis Geraghty & Miller

Client ID: T-549 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2068847 **Sample Qu:**

Lab ID: 20516313 (TCLP) **Matrix:** Other **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 85398

Method: 8081 Pests TCLP **Units:** mg/L **Target List:** 8081_LL20

Collected: 04/23/07 **Received:** 04/25/07

Prep Factor: 1 **Prepared:** 05/02/07 **Analyzed:** 05/07/07 21:06 SLF

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
58-89-9	gamma-BHC (Lindane)	1	ND		0.000500	0.400
57-74-9	Chlordane	1	ND		0.00100	0.0300
72-20-8	Endrin	1	ND		0.00100	0.0200
76-44-8	Heptachlor	1	ND		0.000500	0.00800
1024-57-3	Heptachlor epoxide	1	ND		0.000500	0.00800
72-43-5	Methoxychlor	1	ND		0.00500	10.0
8001-35-2	Toxaphene	1	ND		0.0200	0.500

7 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: T-549 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2068847 **Sample Qu:**

Lab ID: 20516313 (TCLP) **Matrix:** Other **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 85427

Method: 8151 Herbs TCLP **Units:** mg/L **Target List:** 8151 LL20

Collected: 04/23/07 **Received:** 04/25/07

Prep Factor: 1 **Prepared:** 05/03/07 **Analyzed:** 05/10/07 22:28 SRA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
94-75-7	2,4-D	1	ND		0.0200	10.0
93-72-1	2,4,5-TP (Silvex)	1	ND		0.0200	1.00

2 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: T-516
Site: None
Project: MS BLUFFS/LA002656.0001
Project No.: 2068847
Sample Qu:
Lab ID: 20516314 (TCLP)
Matrix: Other
% Moisture: n/a
Description: None
Prep Level: TCLP
Batch: 85398
Method: 8081 Pests TCLP
Units: mg/L
Target List: 8081 LL20
Collected: 04/23/07
Received: 04/25/07
Prep Factor: 1
Prepared: 05/02/07
Analyzed: 05/07/07 22:12 SLF

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
58-89-9	gamma-BHC (Lindane)	1	ND		0.000500	0.400
57-74-9	Chlordane	1	ND		0.00100	0.0300
72-20-8	Endrin	1	ND		0.00100	0.0200
76-44-8	Heptachlor	1	ND		0.000500	0.00800
1024-57-3	Heptachlor epoxide	1	ND		0.000500	0.00800
72-43-5	Methoxychlor	1	ND		0.00500	10.0
8001-35-2	Toxaphene	1	ND		0.0200	0.500

7 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
A Prep Factor other than 1 accounts for a non-routine sample size.
Reporting/Detection Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit denotes an actual regulatory limit or a client-requested notification limit.

5/18/2007 17:28:36

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: T-516 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2068847 **Sample Qu:**

Lab ID: 20516314 (TCLP) **Matrix:** Other **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 85427

Method: 8151 Herbs TCLP **Units:** mg/L **Target List:** 8151_LL20

Collected: 04/23/07 **Received:** 04/25/07

Prep Factor: 1 **Prepared:** 05/03/07 **Analyzed:** 05/11/07 10:22 SRA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
94-75-7	2,4-D	1	ND		0.0200	10.0
93-72-1	2,4,5-TP (Silvex)	1	ND		0.0200	1.00

2 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Client: Arcadis Geraghty & Miller

Client ID: T-1109 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2068847 **Sample Qu:**

Lab ID: 20516315 (TCLP) **Matrix:** Other **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 85398

Method: 8081 Pests TCLP **Units:** mg/L **Target List:** 8081_LL20

Collected: 04/24/07 **Received:** 04/25/07

Prep Factor: 1 **Prepared:** 05/02/07 **Analyzed:** 05/08/07 10:19 SLF

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
58-89-9	gamma-BHC (Lindane)	1	ND		0.000500	0.400
57-74-9	Chlordane	1	ND		0.00100	0.0300
72-20-8	Endrin	1	ND		0.00100	0.0200
76-44-8	Heptachlor	1	ND		0.000500	0.00800
1024-57-3	Heptachlor epoxide	1	ND		0.000500	0.00800
72-43-5	Methoxychlor	1	ND		0.00500	10.0
8001-35-2	Toxaphene	1	ND		0.0200	0.500

7 compound(s) reported

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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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Client: Arcadis Geraghty & Miller

Client ID: T-1109 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2068847 **Sample Qu:**

Lab ID: 20516315 (TCLP) **Matrix:** Other **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 85427

Method: 8151 Herbs TCLP **Units:** mg/L **Target List:** 8151 LL20

Collected: 04/24/07 **Received:** 04/25/07

Prep Factor: 1 **Prepared:** 05/03/07 **Analyzed:** 05/11/07 12:12 SRA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
94-75-7	2,4-D	1	ND		0.0200	10.0
93-72-1	2,4,5-TP (Silvex)	1	ND		0.0200	1.00

2 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: T-1110 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2068847 **Sample Qu:**

Lab ID: 20516316 (TCLP) **Matrix:** Other **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 85398

Method: 8081 Pests TCLP **Units:** mg/L **Target List:** 8081 LL20

Collected: 04/24/07 **Received:** 04/25/07

Prep Factor: 1 **Prepared:** 05/02/07 **Analyzed:** 05/08/07 10:35 SLF

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
58-89-9	gamma-BHC (Lindane)	1	ND		0.000500	0.400
57-74-9	Chlordane	1	ND		0.00100	0.0300
72-20-8	Endrin	1	ND		0.00100	0.0200
76-44-8	Heptachlor	1	ND		0.000500	0.00800
1024-57-3	Heptachlor epoxide	1	ND		0.000500	0.00800
72-43-5	Methoxychlor	1	ND		0.00500	10.0
8001-35-2	Toxaphene	1	ND		0.0200	0.500

7 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: T-1110
Site: None
Project: MS BLUFFS/LA002656.0001
Project No.: 2068847
Sample Qu:
Lab ID: 20516316 (TCLP)
Matrix: Other
% Moisture: n/a
Description: None
Prep Level: TCLP
Batch: 85427
Method: 8151 Herbs TCLP
Units: mg/L
Target List: 8151_LL20
Collected: 04/24/07
Received: 04/25/07
Prep Factor: 1
Prepared: 05/03/07
Analyzed: 05/11/07 12:40 SRA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
94-75-7	2,4-D	1	ND		0.0200	10.0
93-72-1	2,4,5-TP (Silvex)	1	ND		0.0200	1.00

2 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: T-2014 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2068847 **Sample Qu:**

Lab ID: 20516317 (TCLP) **Matrix:** Other **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 85398

Method: 8081 Pests TCLP **Units:** mg/L **Target List:** 8081_LL20

Collected: 04/24/07 **Received:** 04/25/07

Prep Factor: 1 **Prepared:** 05/02/07 **Analyzed:** 05/10/07 19:41 SLF

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
58-89-9	gamma-BHC (Lindane)	1	ND	N	0.000500	0.400
58-89-9	gamma-BHC (Lindane)	1	ND	N	0.000500	0.400
57-74-9	Chlordane	1	ND	N	0.00100	0.0300
57-74-9	Chlordane	1	ND	N	0.00100	0.0300
72-20-8	Endrin	1	ND	N	0.00100	0.0200
72-20-8	Endrin	1	ND	N	0.00100	0.0200
76-44-8	Heptachlor	1	ND	N	0.000500	0.00800
76-44-8	Heptachlor	1	ND	N	0.000500	0.00800
1024-57-3	Heptachlor epoxide	1	ND	N	0.000500	0.00800
1024-57-3	Heptachlor epoxide	1	ND	N	0.000500	0.00800
72-43-5	Methoxychlor	1	ND	N	0.00500	10.0
72-43-5	Methoxychlor	1	ND	N	0.00500	10.0
8001-35-2	Toxaphene	1	ND	N	0.0200	0.500
8001-35-2	Toxaphene	1	ND	N	0.0200	0.500

14 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: T-2014 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2068847 **Sample Qu:**

Lab ID: 20516317 (TCLP) **Matrix:** Other **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 85427

Method: 8151 Herbs TCLP **Units:** mg/L **Target List:** 8151_LL20

Collected: 04/24/07 **Received:** 04/25/07

Prep Factor: 1 **Prepared:** 05/03/07 **Analyzed:** 05/11/07 13:07 SRA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
94-75-7	2,4-D	1	ND		0.0200	10.0
93-72-1	2,4,5-TP (Silvex)	1	ND		0.0200	1.00

2 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Client: Arcadis Geraghty & Miller

Client ID: T-561 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2068847 **Sample Qu:**

Lab ID: 20516318 (TCLP) **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 85398

Method: 8081 Pests TCLP **Units:** mg/L **Target List:** 8081_LL20

Collected: 04/23/07 **Received:** 04/25/07

Prep Factor: 1 **Prepared:** 05/02/07 **Analyzed:** 05/07/07 21:23 SLF

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
58-89-9	gamma-BHC (Lindane)	1	ND		0.000500	0.400
57-74-9	Chlordane	1	ND		0.00100	0.0300
72-20-8	Endrin	1	ND		0.00100	0.0200
76-44-8	Heptachlor	1	ND		0.000500	0.00800
1024-57-3	Heptachlor epoxide	1	ND		0.000500	0.00800
72-43-5	Methoxychlor	1	ND		0.00500	10.0
8001-35-2	Toxaphene	1	ND		0.0200	0.500

7 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: T-561 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2068847 **Sample Qu:**

Lab ID: 20516318 (TCLP) **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 85427

Method: 8151 Herbs TCLP **Units:** mg/L **Target List:** 8151 LL20

Collected: 04/23/07 **Received:** 04/25/07

Prep Factor: 1 **Prepared:** 05/03/07 **Analyzed:** 05/11/07 08:37 SRA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
94-75-7	2,4-D	1	ND	N	0.0200	10.0
93-72-1	2,4,5-TP (Silvex)	1	ND	N	0.0200	1.00

2 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: T-561 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2068847 **Sample Qu:**

Lab ID: 20516318 (TCLP)RE1 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 85795

Method: 8151 Herbs TCLP **Units:** mg/L **Target List:** 8151 LL20

Collected: 04/23/07 **Received:** 04/25/07

Prep Factor: 1 **Prepared:** 05/14/07 **Analyzed:** 05/17/07 02:24 SRA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
94-75-7	2,4-D	1	ND	N	0.0200	10.0
93-72-1	2,4,5-TP (Silvex)	1	ND	N	0.0200	1.00

2 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
A Prep Factor other than 1 accounts for a non-routine sample size.
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: T-513 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2068847 **Sample Qu:**

Lab ID: 20516320 (TCLP) **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 85398

Method: 8081 Pests TCLP **Units:** mg/L **Target List:** 8081 LL20

Collected: 04/23/07 **Received:** 04/25/07

Prep Factor: 1 **Prepared:** 05/02/07 **Analyzed:** 05/07/07 21:39 SLF

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
58-89-9	gamma-BHC (Lindane)	1	ND		0.000500	0.400
57-74-9	Chlordane	1	ND		0.00100	0.0300
72-20-8	Endrin	1	ND		0.00100	0.0200
76-44-8	Heptachlor	1	ND		0.000500	0.00800
1024-57-3	Heptachlor epoxide	1	ND		0.000500	0.00800
72-43-5	Methoxychlor	1	ND		0.00500	10.0
8001-35-2	Toxaphene	1	ND		0.0200	0.500

7 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: T-513 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2068847 **Sample Qu:**

Lab ID: 20516320 (TCLP) **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 85427

Method: 8151 Herbs TCLP **Units:** mg/L **Target List:** 8151 LL20

Collected: 04/23/07 **Received:** 04/25/07

Prep Factor: 1 **Prepared:** 05/03/07 **Analyzed:** 05/11/07 09:04 SRA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
94-75-7	2,4-D	1	ND	N	0.0200	10.0
93-72-1	2,4,5-TP (Silvex)	1	ND	N	0.0200	1.00

2 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
A Prep Factor other than 1 accounts for a non-routine sample size.
Reporting/Detection Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit denotes an actual regulatory limit or a client-requested notification limit.

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: T-513 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2068847 **Sample Qu:**

Lab ID: 20516320 (TCLP)RE1 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 85795

Method: 8151 Herbs TCLP **Units:** mg/L **Target List:** 8151_LL20

Collected: 04/23/07 **Received:** 04/25/07

Prep Factor: 1 **Prepared:** 05/14/07 **Analyzed:** 05/17/07 02:52 SRA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
94-75-7	2,4-D	1	ND	N	0.0200	10.0
93-72-1	2,4,5-TP (Silvex)	1	ND	N	0.0200	1.00

2 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
A Prep Factor other than 1 accounts for a non-routine sample size.
Reporting/Detection Limit is corrected for sample size, dilution and moisture content if applicable.
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: T-540 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2068847 **Sample Qu:**

Lab ID: 20516321 (TCLP) **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 85398

Method: 8081 Pests TCLP **Units:** mg/L **Target List:** 8081 LL20

Collected: 04/23/07 **Received:** 04/25/07

Prep Factor: 1 **Prepared:** 05/02/07 **Analyzed:** 05/07/07 21:56 SLF

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
58-89-9	gamma-BHC (Lindane)	1	ND		0.000500	0.400
57-74-9	Chlordane	1	ND		0.00100	0.0300
72-20-8	Endrin	1	ND		0.00100	0.0200
76-44-8	Heptachlor	1	ND		0.000500	0.00800
1024-57-3	Heptachlor epoxide	1	ND		0.000500	0.00800
72-43-5	Methoxychlor	1	ND		0.00500	10.0
8001-35-2	Toxaphene	1	ND		0.0200	0.500

7 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
A Prep Factor other than 1 accounts for a non-routine sample size.
Reporting/Detection Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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Client: Arcadis Geraghty & Miller

Client ID: T-540 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2068847 **Sample Qu:**

Lab ID: 20516321 (TCLP) **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 85427

Method: 8151 Herbs TCLP **Units:** mg/L **Target List:** 8151_LL20

Collected: 04/23/07 **Received:** 04/25/07

Prep Factor: 1 **Prepared:** 05/03/07 **Analyzed:** 05/11/07 09:55 SRA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
94-75-7	2,4-D	1	ND		0.0200	10.0
93-72-1	2,4,5-TP (Silvex)	1	ND		0.0200	1.00

2 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
A Prep Factor other than 1 accounts for a non-routine sample size.
Reporting/Detection Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit denotes an actual regulatory limit or a client-requested notification limit.

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Client ID: T-552
Project: MS BLUFFS/LA002656.0001
Lab ID: 20516310 (TCLP)
Description: None

Client: Arcadis Geraghty & Miller
Site: None
Project No.: 2068847
Matrix: Other **%Moisture:** n/a
Collected: 04/23/07 **Received:** 04/25/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010 (TC	85281	1	ND		mg/L	0.200	30-Apr-07	03-May-07 03:47	KJR	5.00
Barium	EPA 6010 (TC	85281	1	ND		mg/L	2.00	30-Apr-07	03-May-07 03:47	KJR	100.
Cadmium	EPA 6010 (TC	85281	1	ND		mg/L	0.100	30-Apr-07	03-May-07 03:47	KJR	1.00
Chromium	EPA 6010 (TC	85281	1	ND		mg/L	0.200	30-Apr-07	03-May-07 03:47	KJR	5.00
Lead	EPA 6010 (TC	85281	1	ND		mg/L	0.200	30-Apr-07	03-May-07 03:47	KJR	5.00
Mercury	EPA 7470 (TC	85282	1	ND		mg/L	0.000200	04-May-07	04-May-07 15:34	MHB1	0.200
Selenium	EPA 6010 (TC	85281	1	ND		mg/L	0.200	30-Apr-07	03-May-07 03:47	KJR	1.00
Silver	EPA 6010 (TC	85281	1	ND		mg/L	0.200	30-Apr-07	03-May-07 03:47	KJR	5.00

8 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.

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Client ID: T-543
Project: MS BLUFFS/LA002656.0001
Lab ID: 20516311 (TCLP)
Description: None

Client: Arcadis Geraghty & Miller
Site: None
Project No.: 2068847
Matrix: Other **%Moisture:** n/a
Collected: 04/23/07 **Received:** 04/25/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010 (TC	85281	1	ND		mg/L	0.200	30-Apr-07	03-May-07 03:52	KJR	5.00
Barium	EPA 6010 (TC	85281	1	ND		mg/L	2.00	30-Apr-07	03-May-07 03:52	KJR	100.
Cadmium	EPA 6010 (TC	85281	1	ND		mg/L	0.100	30-Apr-07	03-May-07 03:52	KJR	1.00
Chromium	EPA 6010 (TC	85281	1	ND		mg/L	0.200	30-Apr-07	03-May-07 03:52	KJR	5.00
Lead	EPA 6010 (TC	85281	1	ND		mg/L	0.200	30-Apr-07	03-May-07 03:52	KJR	5.00
Mercury	EPA 7470 (TC	85282	1	ND		mg/L	0.000200	04-May-07	04-May-07 15:41	MHB1	0.200
Selenium	EPA 6010 (TC	85281	1	ND		mg/L	0.200	30-Apr-07	03-May-07 03:52	KJR	1.00
Silver	EPA 6010 (TC	85281	1	ND		mg/L	0.200	30-Apr-07	03-May-07 03:52	KJR	5.00

8 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.

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Client ID: T-512 **Client:** Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.0001 **Site:** None

Lab ID: 20516312 (TCLP) **Project No.:** 2068847

Description: None **Matrix:** Other **%Moisture:** n/a

Collected: 04/23/07 **Received:** 04/25/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010 (TC	85281	1	ND		mg/L	0.200	30-Apr-07	03-May-07 03:57	KJR	5.00
Barium	EPA 6010 (TC	85281	1	ND		mg/L	2.00	30-Apr-07	03-May-07 03:57	KJR	100.
Cadmium	EPA 6010 (TC	85281	1	ND		mg/L	0.100	30-Apr-07	03-May-07 03:57	KJR	1.00
Chromium	EPA 6010 (TC	85281	1	ND		mg/L	0.200	30-Apr-07	03-May-07 03:57	KJR	5.00
Lead	EPA 6010 (TC	85281	1	ND		mg/L	0.200	30-Apr-07	03-May-07 03:57	KJR	5.00
Mercury	EPA 7470 (TC	85282	1	ND		mg/L	0.000200	04-May-07	04-May-07 15:43	MHB1	0.200
Selenium	EPA 6010 (TC	85281	1	ND		mg/L	0.200	30-Apr-07	03-May-07 03:57	KJR	1.00
Silver	EPA 6010 (TC	85281	1	ND		mg/L	0.200	30-Apr-07	03-May-07 03:57	KJR	5.00

8 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.

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Client ID: T-549
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001
Site: None
Lab ID: 20516313 (TCLP)
Project No.: 2068847
Description: None
Matrix: Other
%Moisture: n/a
Collected: 04/23/07
Received: 04/25/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010 (TC	85281	1	ND		mg/L	0.200	30-Apr-07	03-May-07 04:02	KJR	5.00
Barium	EPA 6010 (TC	85281	1	ND		mg/L	2.00	30-Apr-07	03-May-07 04:02	KJR	100.
Cadmium	EPA 6010 (TC	85281	1	ND		mg/L	0.100	30-Apr-07	03-May-07 04:02	KJR	1.00
Chromium	EPA 6010 (TC	85281	1	ND		mg/L	0.200	30-Apr-07	03-May-07 04:02	KJR	5.00
Lead	EPA 6010 (TC	85281	1	ND		mg/L	0.200	30-Apr-07	03-May-07 04:02	KJR	5.00
Mercury	EPA 7470 (TC	85282	1	ND		mg/L	0.000200	04-May-07	04-May-07 15:45	MHB1	0.200
Selenium	EPA 6010 (TC	85281	1	ND		mg/L	0.200	30-Apr-07	03-May-07 04:02	KJR	1.00
Silver	EPA 6010 (TC	85281	1	ND		mg/L	0.200	30-Apr-07	03-May-07 04:02	KJR	5.00

8 parameter(s) reported

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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.

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Client ID: T-516 **Client:** Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.0001 **Site:** None

Lab ID: 20516314 (TCLP) **Project No.:** 2068847

Description: None **Matrix:** Other **%Moisture:** n/a

Collected: 04/23/07 **Received:** 04/25/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010 (TC	85554	1	ND		mg/L	0.200	05-May-07	08-May-07 00:28	KJR	5.00
Barium	EPA 6010 (TC	85554	1	ND		mg/L	2.00	05-May-07	08-May-07 00:28	KJR	100.
Cadmium	EPA 6010 (TC	85554	1	ND		mg/L	0.100	05-May-07	08-May-07 00:28	KJR	1.00
Chromium	EPA 6010 (TC	85554	1	ND		mg/L	0.200	05-May-07	08-May-07 00:28	KJR	5.00
Lead	EPA 6010 (TC	85554	1	ND		mg/L	0.200	05-May-07	08-May-07 00:28	KJR	5.00
Mercury	EPA 7470 (TC	85555	1	ND		mg/L	0.000200	07-May-07	07-May-07 09:51	MHB1	0.200
Selenium	EPA 6010 (TC	85554	1	ND		mg/L	0.200	05-May-07	08-May-07 00:28	KJR	1.00
Silver	EPA 6010 (TC	85554	1	ND		mg/L	0.200	05-May-07	08-May-07 00:28	KJR	5.00

8 parameter(s) reported

5/18/2007 17:28:41

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.

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Client ID: T-1109 **Client:** Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.0001 **Site:** None

Lab ID: 20516315 (TCLP) **Project No.:** 2068847

Description: None **Matrix:** Other **%Moisture:** n/a

Collected: 04/24/07 **Received:** 04/25/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010 (TC	85554	1	ND		mg/L	0.200	05-May-07	08-May-07 00:33	KJR	5.00
Barium	EPA 6010 (TC	85554	1	ND		mg/L	2.00	05-May-07	08-May-07 00:33	KJR	100.
Cadmium	EPA 6010 (TC	85554	1	ND		mg/L	0.100	05-May-07	08-May-07 00:33	KJR	1.00
Chromium	EPA 6010 (TC	85554	1	ND		mg/L	0.200	05-May-07	08-May-07 00:33	KJR	5.00
Lead	EPA 6010 (TC	85554	1	ND		mg/L	0.200	05-May-07	08-May-07 00:33	KJR	5.00
Mercury	EPA 7470 (TC	85555	1	ND		mg/L	0.000200	07-May-07	07-May-07 09:53	MHB1	0.200
Selenium	EPA 6010 (TC	85554	1	ND		mg/L	0.200	05-May-07	08-May-07 00:33	KJR	1.00
Silver	EPA 6010 (TC	85554	1	ND		mg/L	0.200	05-May-07	08-May-07 00:33	KJR	5.00

8 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.

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Client ID: T-1110 **Client:** Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.0001 **Site:** None

Lab ID: 20516316 (TCLP) **Project No.:** 2068847

Description: None **Matrix:** Other **%Moisture:** n/a

Collected: 04/24/07 **Received:** 04/25/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010 (TC	85554	1	ND		mg/L	0.200	05-May-07	08-May-07 00:38	KJR	5.00
Barium	EPA 6010 (TC	85554	1	ND		mg/L	2.00	05-May-07	08-May-07 00:38	KJR	100.
Cadmium	EPA 6010 (TC	85554	1	ND		mg/L	0.100	05-May-07	08-May-07 00:38	KJR	1.00
Chromium	EPA 6010 (TC	85554	1	ND		mg/L	0.200	05-May-07	08-May-07 00:38	KJR	5.00
Lead	EPA 6010 (TC	85554	1	ND		mg/L	0.200	05-May-07	08-May-07 00:38	KJR	5.00
Mercury	EPA 7470 (TC	85555	1	ND		mg/L	0.000200	07-May-07	07-May-07 09:59	MHB1	0.200
Selenium	EPA 6010 (TC	85554	1	ND		mg/L	0.200	05-May-07	08-May-07 00:38	KJR	1.00
Silver	EPA 6010 (TC	85554	1	ND		mg/L	0.200	05-May-07	08-May-07 00:38	KJR	5.00

8 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.

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Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270
Pennsylvania DEP (NELAC) 68-04202

Report of Laboratory Analysis

Pace Analytical Services, Inc.
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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: T-2014 **Client:** Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.0001 **Site:** None

Lab ID: 20516317 (TCLP) **Project No.:** 2068847

Description: None **Matrix:** Other **%Moisture:** n/a

Collected: 04/24/07 **Received:** 04/25/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010 (TC	85554	1	ND		mg/L	0.200	05-May-07	08-May-07 00:43	KJR	5.00
Barium	EPA 6010 (TC	85554	1	ND		mg/L	2.00	05-May-07	08-May-07 00:43	KJR	100.
Cadmium	EPA 6010 (TC	85554	1	ND		mg/L	0.100	05-May-07	08-May-07 00:43	KJR	1.00
Chromium	EPA 6010 (TC	85554	1	ND		mg/L	0.200	05-May-07	08-May-07 00:43	KJR	5.00
Lead	EPA 6010 (TC	85554	1	ND		mg/L	0.200	05-May-07	08-May-07 00:43	KJR	5.00
Mercury	EPA 7470 (TC	85555	1	ND		mg/L	0.000200	07-May-07	07-May-07 10:00	MHB1	0.200
Selenium	EPA 6010 (TC	85554	1	ND		mg/L	0.200	05-May-07	08-May-07 00:43	KJR	1.00
Silver	EPA 6010 (TC	85554	1	ND		mg/L	0.200	05-May-07	08-May-07 00:43	KJR	5.00

8 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.

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Client ID: T-561 **Client:** Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.0001 **Site:** None

Lab ID: 20516318 (TCLP) **Project No.:** 2068847

Description: None **Matrix:** Water **%Moisture:** n/a

Collected: 04/23/07 **Received:** 04/25/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010 (TC	85281	10	ND	D2	mg/L	2.00	30-Apr-07	03-May-07 04:09	KJR	5.00
Barium	EPA 6010 (TC	85281	10	ND	D2	mg/L	20.0	30-Apr-07	03-May-07 04:09	KJR	100.
Cadmium	EPA 6010 (TC	85281	10	ND	D2	mg/L	1.00	30-Apr-07	03-May-07 04:09	KJR	1.00
Chromium	EPA 6010 (TC	85281	10	ND	D2	mg/L	2.00	30-Apr-07	03-May-07 04:09	KJR	5.00
Lead	EPA 6010 (TC	85281	10	ND	D2	mg/L	2.00	30-Apr-07	03-May-07 04:09	KJR	5.00
Mercury	EPA 7470 (TC	85282	1	0.000230		mg/L	0.000200	04-May-07	04-May-07 15:48	MHB1	0.200
Selenium	EPA 6010 (TC	85281	10	ND	D2	mg/L	2.00	30-Apr-07	03-May-07 04:09	KJR	1.00
Silver	EPA 6010 (TC	85281	10	ND	D2	mg/L	2.00	30-Apr-07	03-May-07 04:09	KJR	5.00

8 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.

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Client ID: T-513 **Client:** Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.0001 **Site:** None

Lab ID: 20516320 (TCLP) **Project No.:** 2068847

Description: None **Matrix:** Water **%Moisture:** n/a

Collected: 04/23/07 **Received:** 04/25/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010 (TC	85281	10	ND	D2	mg/L	2.00	30-Apr-07	03-May-07 04:14	KJR	5.00
Barium	EPA 6010 (TC	85281	10	ND	D2	mg/L	20.0	30-Apr-07	03-May-07 04:14	KJR	100.
Cadmium	EPA 6010 (TC	85281	10	ND	D2	mg/L	1.00	30-Apr-07	03-May-07 04:14	KJR	1.00
Chromium	EPA 6010 (TC	85281	10	ND	D2	mg/L	2.00	30-Apr-07	03-May-07 04:14	KJR	5.00
Lead	EPA 6010 (TC	85281	10	ND	D2	mg/L	2.00	30-Apr-07	03-May-07 04:14	KJR	5.00
Mercury	EPA 7470 (TC	85282	10	ND	D1	mg/L	0.0200	04-May-07	04-May-07 15:54	MHB1	0.200
Selenium	EPA 6010 (TC	85281	10	ND	D2	mg/L	2.00	30-Apr-07	03-May-07 04:14	KJR	1.00
Silver	EPA 6010 (TC	85281	10	ND	D2	mg/L	2.00	30-Apr-07	03-May-07 04:14	KJR	5.00

8 parameter(s) reported

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DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.

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LELAP # 02006

Client ID: T-540 **Client:** Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.0001 **Site:** None

Lab ID: 20516321 (TCLP) **Project No.:** 2068847

Description: None **Matrix:** Water **%Moisture:** n/a

Collected: 04/23/07 **Received:** 04/25/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010 (TC	85281	1	ND		mg/L	0.200	30-Apr-07	03-May-07 04:20	KJR	5.00
Barium	EPA 6010 (TC	85281	1	ND		mg/L	2.00	30-Apr-07	03-May-07 04:20	KJR	100.
Cadmium	EPA 6010 (TC	85281	1	ND		mg/L	0.100	30-Apr-07	03-May-07 04:20	KJR	1.00
Chromium	EPA 6010 (TC	85281	1	ND		mg/L	0.200	30-Apr-07	03-May-07 04:20	KJR	5.00
Lead	EPA 6010 (TC	85281	1	ND		mg/L	0.200	30-Apr-07	03-May-07 04:20	KJR	5.00
Mercury	EPA 7470 (TC	85282	1	ND		mg/L	0.000200	04-May-07	04-May-07 15:56	MHB1	0.200
Selenium	EPA 6010 (TC	85281	1	ND		mg/L	0.200	30-Apr-07	03-May-07 04:20	KJR	1.00
Silver	EPA 6010 (TC	85281	1	ND		mg/L	0.200	30-Apr-07	03-May-07 04:20	KJR	5.00

8 parameter(s) reported

5/18/2007 17:28:42

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DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.

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Client ID: T-552
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001
Site: None
Lab ID: 20516310
Project No.: 2068847
Description: None
Matrix: Other
%Moisture: n/a
Collected: 04/23/07
Received: 04/25/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Cyanide, Reactive	SW-846 7.3.3.2	85286	1	ND		mg/kg	25.0	01-May-07	01-May-07 11:18	MHM	
Flash Point	EPA 1010	85156	1	>100		deg C		27-Apr-07	27-Apr-07 12:40	LJL	
pH	EPA 9045	85410	1	6.31		Std. Units		02-May-07	02-May-07 16:35	LJL	
Sulfide, Reactive	SW-846 7.3.4.2	85287	1	60.0		mg/kg	50.0	01-May-07	01-May-07 08:15	LJL	

4 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.

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LELAP # 02006

Client ID: T-543 **Client:** Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.0001 **Site:** None

Lab ID: 20516311 **Project No.:** 2068847

Description: None **Matrix:** Other **%Moisture:** n/a

Collected: 04/23/07 **Received:** 04/25/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Cyanide, Reactive	SW-846 7.3.3.2	85286	1	ND		mg/kg	25.0	01-May-07	01-May-07 11:23	MHM	
Flash Point	EPA 1010	85156	1	>100		deg C		27-Apr-07	27-Apr-07 12:40	LJL	
pH	EPA 9045	85410	1	7.09		Std. Units		02-May-07	02-May-07 16:35	LJL	
Sulfide, Reactive	SW-846 7.3.4.2	85287	1	ND		mg/kg	50.0	01-May-07	01-May-07 08:15	LJL	

4 parameter(s) reported

5/18/2007 17:28:45

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.

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LELAP # 02006

Client ID: T-512 **Client:** Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.0001 **Site:** None

Lab ID: 20516312 **Project No.:** 2068847

Description: None **Matrix:** Other **%Moisture:** n/a

Collected: 04/23/07 **Received:** 04/25/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Cyanide, Reactive	SW-846 7.3.3.2	85286	1	ND		mg/kg	25.0	01-May-07	01-May-07 11:23	MHM	
Flash Point	EPA 1010	85156	1	>100		deg C		27-Apr-07	27-Apr-07 12:40	LJL	
pH	EPA 9045	85410	1	4.52		Std. Units		02-May-07	02-May-07 16:35	LJL	
Sulfide, Reactive	SW-846 7.3.4.2	85287	1	60.0		mg/kg	50.0	01-May-07	01-May-07 08:15	LJL	

4 parameter(s) reported

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ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.

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Client ID: T-549
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001
Site: None
Lab ID: 20516313
Project No.: 2068847
Description: None
Matrix: Other
%Moisture: n/a
Collected: 04/23/07
Received: 04/25/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Cyanide, Reactive	SW-846 7.3.3.2	85286	1	ND		mg/kg	25.0	01-May-07	01-May-07 11:23	MHM	
Flash Point	EPA 1010	85156	1	>100		deg C		27-Apr-07	27-Apr-07 12:40	LJL	
pH	EPA 9045	85410	1	10.4		Std. Units		02-May-07	02-May-07 16:35	LJL	
Sulfide, Reactive	SW-846 7.3.4.2	85287	1	ND		mg/kg	50.0	01-May-07	01-May-07 08:15	LJL	

4 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.

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Client ID: T-516 **Client:** Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.0001 **Site:** None

Lab ID: 20516314 **Project No.:** 2068847

Description: None **Matrix:** Other **%Moisture:** n/a

Collected: 04/23/07 **Received:** 04/25/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Cyanide, Reactive	SW-846 7.3.3.2	85286	1	ND		mg/kg	25.0	01-May-07	01-May-07 11:23	MHM	
Flash Point	EPA 1010	85156	1	>100		deg C		27-Apr-07	27-Apr-07 12:40	LJL	
pH	EPA 9045	85410	1	7.10		Std. Units		02-May-07	02-May-07 16:35	LJL	
Sulfide, Reactive	SW-846 7.3.4.2	85287	1	ND		mg/kg	50.0	01-May-07	01-May-07 08:15	LJL	

4 parameter(s) reported

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DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.

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Client ID: T-1109 **Client:** Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.0001 **Site:** None

Lab ID: 20516315 **Project No.:** 2068847

Description: None **Matrix:** Other **%Moisture:** n/a

Collected: 04/24/07 **Received:** 04/25/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Cyanide, Reactive	SW-846 7.3.3.2	85286	1	ND		mg/kg	25.0	01-May-07	01-May-07 11:23	MHM	
Flash Point	EPA 1010	85156	1	>100		deg C		27-Apr-07	27-Apr-07 12:40	LJL	
pH	EPA 9045	85410	1	6.87		Std. Units		02-May-07	02-May-07 16:35	LJL	
Sulfide, Reactive	SW-846 7.3.4.2	85287	1	60.0		mg/kg	50.0	01-May-07	01-May-07 08:15	LJL	

4 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.

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Client ID: T-1110 **Client:** Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.0001 **Site:** None

Lab ID: 20516316 **Project No.:** 2068847

Description: None **Matrix:** Other **%Moisture:** n/a

Collected: 04/24/07 **Received:** 04/25/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Cyanide, Reactive	SW-846 7.3.3.2	85286	1	ND		mg/kg	25.0	01-May-07	01-May-07 11:28	MHM	
Flash Point	EPA 1010	85156	1	>100		deg C		27-Apr-07	27-Apr-07 12:40	LJL	
pH	EPA 9045	85410	1	5.00		Std. Units		02-May-07	02-May-07 16:35	LJL	
Sulfide, Reactive	SW-846 7.3.4.2	85287	1	ND		mg/kg	50.0	01-May-07	01-May-07 08:15	LJL	

4 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.

5/18/2007 17:28:45

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Kansas Dept. of Health Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270
Pennsylvania DEP (NELAC) 68-04202

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: T-2014 **Client:** Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001 **Site:** None
Lab ID: 20516317 **Project No.:** 2068847
Description: None **Matrix:** Other **%Moisture:** n/a
Collected: 04/24/07 **Received:** 04/25/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Cyanide, Reactive	SW-846 7.3.3.2	85286	1	ND		mg/kg	25.0	01-May-07	01-May-07 11:28	MHM	
Flash Point	EPA 1010	85698	1	>100		deg C		09-May-07	09-May-07 09:45	LJL	
pH	EPA 9045	85410	1	6.85		Std. Units		02-May-07	02-May-07 16:35	LJL	
Sulfide, Reactive	SW-846 7.3.4.2	85287	1	ND		mg/kg	50.0	01-May-07	01-May-07 08:15	LJL	

4 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.

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Phone: 504.469.0333
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Client ID: T-561 **Client:** Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.0001 **Site:** None

Lab ID: 20516318 **Project No.:** 2068847

Description: None **Matrix:** Water **%Moisture:** n/a

Collected: 04/23/07 **Received:** 04/25/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Cyanide, Reactive	SW-846 7.3.3.2	85286	1	ND		mg/kg	25.0	01-May-07	01-May-07	11:23 MHM	
Flash Point	EPA 1010	85156	1	>100		deg C		27-Apr-07	27-Apr-07	12:40 LJL	
pH	EPA 9040	85183	1	11.6		Std. Units		26-Apr-07	26-Apr-07	16:40 TAE	
Sulfide, Reactive	SW-846 7.3.4.2	85287	1	ND		mg/kg	50.0	01-May-07	01-May-07	08:15 LJL	

4 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.

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Client ID: T-513 **Client:** Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.0001 **Site:** None

Lab ID: 20516320 **Project No.:** 2068847

Description: None **Matrix:** Water **%Moisture:** n/a

Collected: 04/23/07 **Received:** 04/25/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Cyanide, Reactive	SW-846 7.3.3.2	85286	1	ND		mg/kg	25.0	01-May-07	01-May-07 11:23	MHM	
Flash Point	EPA 1010	85156	1	>100		deg C		27-Apr-07	27-Apr-07 12:40	LJL	
pH	EPA 9040	85183	1	11.1		Std. Units		26-Apr-07	26-Apr-07 16:40	TAE	
Sulfide, Reactive	SW-846 7.3.4.2	85287	1	ND		mg/kg	50.0	01-May-07	01-May-07 08:15	LJL	

4 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.

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Phone: 504.469.0333
Fax: 504.469.0555
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Client ID: T-540 **Client:** Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.0001 **Site:** None

Lab ID: 20516321 **Project No.:** 2068847

Description: None **Matrix:** Water **%Moisture:** n/a

Collected: 04/23/07 **Received:** 04/25/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Cyanide, Reactive	SW-846 7.3.3.2	85286	1	ND		mg/kg	25.0	01-May-07	01-May-07 11:23	MHM	
Flash Point	EPA 1010	85156	1	>100		deg C		27-Apr-07	27-Apr-07 12:40	LJL	
pH	EPA 9040	85183	1	5.29		Std. Units		26-Apr-07	26-Apr-07 16:40	TAE	
Sulfide, Reactive	SW-846 7.3.4.2	85287	1	ND		mg/kg	50.0	01-May-07	01-May-07 08:15	LJL	

4 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.

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Report of Quality Control

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Phone: 504.469.0333
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LELAP # 02006

Method: EPA 8260 **Project:** 2068847 **LCS:** 20517731 5/1/2007 12:17:00 PM

Batch: 85335 **MS:** 20517732 5/1/2007 1:37:00 PM

Units: mg/L **Original for MS:** 20516310 Client Sample

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Benzene	0.4	0.3758	94	0.4	0.00	0.3668	0.3806	92	95	4	70 - 135	60 - 144	20	
2-Butanone (MEK)	0.4	0.4332	108	0.4	0.00	0.5284	0.5634	132	141	6	32 - 157	20 - 168	20	A11
Carbon tetrachloride	0.4	0.4212	105	0.4	0.00	0.3716	0.3806	93	95	2	50 - 166	44 - 170	20	
Chlorobenzene	0.4	0.4044	101	0.4	0.00	0.4024	0.4024	101	101	0	73 - 129	67 - 134	20	
Chloroform	0.4	0.3972	99	0.4	0.00	0.4058	0.4172	102	104	3	71 - 133	64 - 140	20	
1,2-Dichloroethane	0.4	0.3938	99	0.4	0.00	0.4498	0.488	113	122	8	53 - 164	51 - 161	20	
1,1-Dichloroethene	0.4	0.204	51	0.4	0.00	0.372	0.203	93	51	59 *	51 - 143	44 - 152	20	
Tetrachloroethene	0.4	0.4972	124	0.4	0.00	0.461	0.446	115	112	3	42 - 156	39 - 151	20	
Trichloroethene	0.4	0.4222	106	0.4	0.00	0.4064	0.4184	102	105	3	69 - 136	61 - 141	20	
Vinyl chloride	0.4	0.305	76	0.4	0.00	0.2668	0.269	67	67	1	40 - 146	28 - 161	20	

10 compound(s) reported

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* denotes recovery outside of QC limits.

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

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Phone: 504.469.0333
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LELAP # 02006

Method: EPA 8270 **Project:** 2068847 **LCS:** 20518529 5/7/2007 11:54:00 AM

Batch: 85428 **MS:** 20518530 5/7/2007 12:23:00 PM

Units: mg/L **Original for MS:** 20516312 Client Sample

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
1,4-Dichlorobenzene	0.5	0.2191	44	0.5	0.00	0.2638	0.3034	53	61	14	17 - 97	12 - 98	20	
2,4-Dinitrotoluene	0.5	0.3694	74	0.5	0.00	0.3769	0.4324	75	87	14	43 - 121	36 - 125	20	
Hexachloro-1,3-butadiene	0.5	0.1911	38	0.5	0.00	0.1835	0.2259	37	45	21 *	20 - 101	14 - 102	20	
Hexachlorobenzene	0.5	0.3525	71	0.5	0.00	0.3123	0.3838	63	77	21 *	44 - 119	32 - 119	20	
Hexachloroethane	0.5	0.1711	34	0.5	0.00	0.2064	0.2529	41	51	20	15 - 96	10 - 101	20	
2-Methylphenol (o-Cresol)	0.5	0.34	68	0.5	0.00	0.3763	0.4058	75	81	8	32 - 115	27 - 118	20	
3&4-Methylphenol	0.5	0.3307	66	0.5	0.00	0.3425	0.3819	69	76	11	33 - 116	27 - 119	20	
Nitrobenzene	0.5	0.3293	66	0.5	0.00	0.339	0.3549	68	71	5	31 - 118	16 - 136	20	
Pentachlorophenol	0.5	0.2348	47	0.5	0.00	0.3526	0.4243	71	85	18	32 - 133	24 - 147	20	
Pyridine	0.5	0.3086	62	0.5	0.00	0.0415	0.0526	8 *	11 *	24 *	40 - 120	40 - 120	20	Q1
2,4,5-Trichlorophenol	0.5	0.4	80	0.5	0.00	0.448	0.465	90	93	4	41 - 120	35 - 122	20	
2,4,6-Trichlorophenol	0.5	0.3652	73	0.5	0.00	0.3775	0.4301	76	86	13	39 - 120	33 - 124	20	

12 compound(s) reported

5/18/2007 17:28:49

* denotes recovery outside of QC limits.

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

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Phone: 504.469.0333
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LELAP # 02006

Method: EPA 8270 **Project:** 2068847 **LCS:** 20519662 5/10/2007 1:14:00 PM

Batch: 85684 **MS:**

Units: mg/L **Original for MS:**

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
1,4-Dichlorobenzene	0.5	0.1438	29								17 - 97	-		Q5
2,4-Dinitrotoluene	0.5	0.4094	82								43 - 121	-		Q5
Hexachloro-1,3-butadiene	0.5	0.1214	24								20 - 101	-		Q5
Hexachlorobenzene	0.5	0.3309	66								44 - 119	-		Q5
Hexachloroethane	0.5	0.1142	23								15 - 96	-		Q5
2-Methylphenol (o-Cresol)	0.5	0.41	82								32 - 115	-		Q5
3&4-Methylphenol	0.5	0.4152	83								33 - 116	-		Q5
Nitrobenzene	0.5	0.3311	66								31 - 118	-		Q5
Pentachlorophenol	0.5	0.2551	51								32 - 133	-		Q5
Pyridine	0.5	0.2607	52								40 - 120	-		Q5
2,4,5-Trichlorophenol	0.5	0.3353	67								41 - 120	-		Q5
2,4,6-Trichlorophenol	0.5	0.3582	72								39 - 120	-		Q5

12 compound(s) reported

* denotes recovery outside of QC limits.

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

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Report of Batch Surrogate Recovery

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Report: 2068847 **Batch: 85335**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20516310	Sample	110	113	100					
20516311	Sample	112	110	98					
20516312	Sample	115	113	99					
20516313	Sample	126	115	100					
20516314	Sample	113	111	100					
20516315	Sample	108	108	99					
20516316	Sample	108	107	99					
20516317	Sample	107	107	100					
20516318	Sample M1	132 *	13 *	97					
20516320	Sample	125	100	99					
20516321	Sample	111	111	100					
20517730	BLANK	113	117	99					
20517731	LCS	114	98	99					
20517732	MS	115	101	98					
20517733	MSD	115	104	99					
	QC limits:	71-129	68-124	74-122					

Sur 1: 4-Bromofluorobenzene (S)
Sur 2: Dibromofluoromethane (S)
Sur 3: Toluene-d8 (S)

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* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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LELAP # 02006

Report: 2068847 **Batch: 85428**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20516310	Sample	82	80	37	93	26	85		
20516311	Sample	74	68	44	86	33	82		
20516312	Sample	79	78	40	88	30	88		
20516313	Sample	78	70	49	90	37	87		
20516314	Sample	84	67	43	95	32	86		
20516315	Sample	63	75	33	83	23	76		
20516316	Sample G1	72	112 *	42	164 *	35	93		
20516317	Sample	76	74	38	85	29	83		
20516318	Sample N	8 *	64	0 *	40	0 *	78		
20516320	Sample	33	81	48	77	60	87		
20516321	Sample	79	75	45	93	32	90		
20518528	BLANK	79	78	38	89	31	91		
20518529	LCS	76	73	34	72	26	76		
20518530	MS	75	72	34	71	26	74		
20518531	MSD	82	80	41	74	32	84		
QC limits:		25-133	36-108	10-109	21-120	15-113	17-130		

Sur 1: 2,4,6-Tribromophenol (S)
Sur 2: 2-Fluorobiphenyl (S)
Sur 3: 2-Fluorophenol (S)
Sur 4: Nitrobenzene-d5 (S)
Sur 5: Phenol-d5 (S)
Sur 6: Terphenyl-d14 (S)

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D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
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A Lab ID with a MSD suffix is a matrix spike duplicate.

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Phone: 504.469.0333
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LELAP # 02006

Report: 2068847 **Batch: 85684**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20516318	Sample N	17 *	14 *	0 *	14 *	1 *	98		
20519661	BLANK	66	66	63	94	54	101		
20519662	LCS	63	62	58	70	50	74		
20520388	BLANK	66	54	26	78	19	78		
20520389	LCS	75	69	30	70	24	58		
QC limits:		25-133	36-108	10-109	21-120	15-113	17-130		

Sur 1: 2,4,6-Tribromophenol (S)
Sur 2: 2-Fluorobiphenyl (S)
Sur 3: 2-Fluorophenol (S)
Sur 4: Nitrobenzene-d5 (S)
Sur 5: Phenol-d5 (S)
Sur 6: Terphenyl-d14 (S)

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D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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Report of Method Blank

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Phone: 504.469.0333
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LELAP # 02006

Lab ID: 20517730 (TCLP)

Description: 8260 VOAs Full List TCLP, BLK **Project No.:** 2068847

Method: EPA 8260 (TCLP) **Batch:** 85335 **Units:** mg/L

Prep Factor: 1 **Leached:** **Prepared:** 01-May-07 **Analyzed:** 05/01/07 11:58 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
71-43-2	Benzene	1	ND		0.250
78-93-3	2-Butanone (MEK)	1	ND	A11	0.500
56-23-5	Carbon tetrachloride	1	ND		0.250
108-90-7	Chlorobenzene	1	ND		0.250
67-66-3	Chloroform	1	ND		0.250
107-06-2	1,2-Dichloroethane	1	ND		0.250
75-35-4	1,1-Dichloroethene	1	ND		0.250
127-18-4	Tetrachloroethene	1	ND		0.250
79-01-6	Trichloroethene	1	ND		0.250
75-01-4	Vinyl chloride	1	ND		0.250

10 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

5/18/2007 17:28:55

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LELAP # 02006

Lab ID: 20518528 (TCLP)

Description: 8270 SVOAs TCLP Blank **Project No.:** 2068847

Method: EPA 8270 (TCLP) **Batch:** 85428 **Units:** mg/L

Prep Factor: 1 **Leached:** **Prepared:** 04-May-07 **Analyzed:** 05/07/07 11:25 JAM

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
106-46-7	1,4-Dichlorobenzene	1	ND		0.100
121-14-2	2,4-Dinitrotoluene	1	ND		0.100
87-68-3	Hexachloro-1,3-butadiene	1	ND		0.100
118-74-1	Hexachlorobenzene	1	ND		0.100
67-72-1	Hexachloroethane	1	ND		0.100
95-48-7	2-Methylphenol (o-Cresol)	1	ND		0.100
	3&4-Methylphenol	1	ND		0.200
98-95-3	Nitrobenzene	1	ND		0.100
87-86-5	Pentachlorophenol	1	ND		0.250
110-86-1	Pyridine	1	ND		0.100
95-95-4	2,4,5-Trichlorophenol	1	ND		0.250
88-06-2	2,4,6-Trichlorophenol	1	ND		0.100

12 compound(s) reported

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ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
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Lab ID: 20519661 (TCLP)

Description: 8270 SVOAs TCLP Blank **Project No.:** 2068847

Method: EPA 8270 (TCLP) **Batch:** 85684 **Units:** mg/L

Prep Factor: 1 **Leached:** **Prepared:** 09-May-07 **Analyzed:** 05/10/07 12:46 JAM

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
106-46-7	1,4-Dichlorobenzene	1	ND		0.100
121-14-2	2,4-Dinitrotoluene	1	ND		0.100
87-68-3	Hexachloro-1,3-butadiene	1	ND		0.100
118-74-1	Hexachlorobenzene	1	ND		0.100
67-72-1	Hexachloroethane	1	ND		0.100
95-48-7	2-Methylphenol (o-Cresol)	1	ND		0.100
	3&4-Methylphenol	1	ND		0.200
98-95-3	Nitrobenzene	1	ND		0.100
87-86-5	Pentachlorophenol	1	ND		0.250
110-86-1	Pyridine	1	ND		0.100
95-95-4	2,4,5-Trichlorophenol	1	ND		0.250
88-06-2	2,4,6-Trichlorophenol	1	ND		0.100

12 compound(s) reported

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ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
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Method: EPA 8081 **Project:** 2068847 **LCS:** 20518205 5/7/2007 7:28:00 PM

Batch: 85398 **MS:** 20518206 5/7/2007 8:00:00 PM

Units: mg/L **Original for MS:** 20516310 Client Sample

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
gamma-BHC (Lindane)	0.005	0.003548	71	0.005	0.00	0.004717	0.00433	94	87	9	39 - 153	18 - 171	20	
Endrin	0.005	0.004493	90	0.005	0.00	0.006607	0.00597	132	119	10	49 - 171	30 - 187	20	
Heptachlor	0.005	0.003267	65	0.005	0.00	0.004843	0.004372	97	87	10	33 - 152	14 - 159	20	
Heptachlor epoxide	0.005	0.003345	67	0.005	0.00	0.00461	0.004164	92	83	10	45 - 144	24 - 158	20	
Methoxychlor	0.005	0.002918	58	0.005	0.00	0.005287	0.004806	106	96	10	19 - 178	10 - 194	20	

5 compound(s) reported

5/18/2007 17:28:58

* denotes recovery outside of QC limits.

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

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Method: EPA 8081 **Project:** 2068847 **LCS:** 20519660 5/10/2007 7:25:00 PM

Batch: 85398 **MS:**

Units: mg/L **Original for MS:**

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
gamma-BHC (Lindane)	0.005	0.003938	79								39 - 153	-		
Endrin	0.005	0.006087	122								49 - 171	-		
Heptachlor	0.005	0.003971	79								33 - 152	-		
Heptachlor epoxide	0.005	0.004364	87								45 - 144	-		
Methoxychlor	0.005	0.004451	89								19 - 178	-		

5 compound(s) reported

* denotes recovery outside of QC limits.

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

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LELAP # 02006

Method: EPA 8151 **Project:** 2068847 **LCS:** 20518519 5/10/2007 7:43:00 PM

Batch: 85427 **MS:** 20518520 5/10/2007 9:05:00 PM

Units: mg/L **Original for MS:** 20516311 Client Sample

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
2,4-D	0.1	0.1489	149	0.1	0.00	0.1474	0.1159	147	116	24 *	25 - 163	10 - 182	20	
2,4,5-TP (Silvex)	0.01	0.01566	157	0.01	0.00	0.0146	0.01136	141	109	25 *	30 - 165	15 - 174	20	

2 compound(s) reported

* denotes recovery outside of QC limits.

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

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LELAP # 02006

Method: EPA 8151 **Project:** 2068847 **LCS:** 20520852 5/17/2007 1:57:00 AM

Batch: 85795 **MS:**

Units: mg/L **Original for MS:**

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
2,4-D	0.1	0.1346	135								25 - 163	-		
2,4,5-TP (Silvex)	0.01	0.01402	140								30 - 165	-		

2 compound(s) reported

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* denotes recovery outside of QC limits.

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

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LELAP # 02006

Report: 2068847 **Batch: 85398**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20516310	Sample	37	40	37	35				
20516311	Sample	74	77	57	57				
20516312	Sample	97	102	69	70				
20516313	Sample	66	68	60	58				
20516314	Sample	69	72	63	60				
20516315	Sample	86	79	59	55				
20516316	Sample G1	151	79	826 *	649 *				
20516317	Sample N	92	90	66	82				
20516318	Sample	61	63	34	32				
20516320	Sample	68	71	37	34				
20516321	Sample	71	75	21	22				
20518204	BLANK	83	85	56	55				
20518205	LCS	54	57	40	34				
20518206	MS	59	61	67	65				
20518207	MSD	50	54	56	53				
20519659	BLANK	71	69	70	69				
20519660	LCS	51	51	65	60				
QC limits:		10-157	10-157	18-171	18-171				

Sur 1: Decachlorobiphenyl (Conf)(S)
Sur 2: Decachlorobiphenyl (S)
Sur 3: Tetrachloro-m-xylene (Conf)(S)
Sur 4: Tetrachloro-m-xylene (S)

*** denotes surrogate recovery outside of QC limits.**
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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LELAP # 02006

Report: 2068847 **Batch: 85427**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20516310	Sample	114	110						
20516311	Sample	110	114						
20516312	Sample	103	103						
20516313	Sample	115	155						
20516314	Sample	109	122						
20516315	Sample	114	125						
20516316	Sample	120	117						
20516317	Sample	100	117						
20516318	Sample N	1 *	1 *						
20516320	Sample N	2 *	21						
20516321	Sample	128	125						
20518518	BLANK	123	126						
20518519	LCS	133	137						
20518520	MS	126	151						
20518521	MSD	104	111						
QC limits:		10-181	10-181						

Sur 1: 2,4-DCPA (Conf)(S)
Sur 2: 2,4-DCPA (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

5/18/2007 17:29:01

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LELAP # 02006

Report: 2068847 **Batch: 85795**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20516318	Sample N	0 *	0 *						
20516320	Sample N	134	140						
20520386	BLANK	106	105						
20520387	LCS	101	99						
20520851	BLANK	107	105						
20520852	LCS	120	117						
	QC limits:	10-181	10-181						

Sur 1: 2,4-DCPA (Conf)(S)
Sur 2: 2,4-DCPA (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

5/18/2007 17:29:02

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Report of Method Blank

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LELAP # 02006

Lab ID: 20518204 (TCLP)

Description: 8081 Pests TCLP Blank **Project No.:** 2068847

Method: EPA 8081 (TCLP) **Batch:** 85398 **Units:** mg/L

Prep Factor: 1 **Leached:** **Prepared:** 02-May-07 **Analyzed:** 05/07/07 19:11 SLF

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
58-89-9	gamma-BHC (Lindane)	1	ND		0.000500
57-74-9	Chlordane	1	ND		0.00100
72-20-8	Endrin	1	ND		0.00100
76-44-8	Heptachlor	1	ND		0.000500
1024-57-3	Heptachlor epoxide	1	ND		0.000500
72-43-5	Methoxychlor	1	ND		0.00500
8001-35-2	Toxaphene	1	ND		0.0200

7 compound(s) reported

5/18/2007 17:29:05

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Lab ID: 20518518 (TCLP)
Description: 8151 Herbs TCLP Blank **Project No.:** 2068847
Method: EPA 8151 (TCLP) **Batch:** 85427 **Units:** mg/L

Prep Factor: 1 **Leached:** **Prepared:** 03-May-07 **Analyzed:** 05/10/07 19:15 SRA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
94-75-7	2,4-D	1	ND		0.0200
93-72-1	2,4,5-TP (Silvex)	1	ND		0.0200

2 compound(s) reported

5/18/2007 17:29:05

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Lab ID: 20519659 (TCLP)

Description: 8081 Pests TCLP Blank **Project No.:** 2068847

Method: EPA 8081 (TCLP) **Batch:** 85398 **Units:** mg/L

Prep Factor: 1 **Leached:** **Prepared:** 09-May-07 **Analyzed:** 05/10/07 19:08 SLF

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
58-89-9	gamma-BHC (Lindane)	1	ND		0.000500
57-74-9	Chlordane	1	ND		0.00100
72-20-8	Endrin	1	ND		0.00100
76-44-8	Heptachlor	1	ND		0.000500
1024-57-3	Heptachlor epoxide	1	ND		0.000500
72-43-5	Methoxychlor	1	ND		0.00500
8001-35-2	Toxaphene	1	ND		0.0200

7 compound(s) reported

5/18/2007 17:29:05

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
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Lab ID: 20520851 (TCLP)
Description: 8151 Herbs TCLP Blank **Project No.:** 2068847
Method: EPA 8151 (TCLP) **Batch:** 85795 **Units:** mg/L

Prep Factor: 1 **Leached:** **Prepared:** 14-May-07 **Analyzed:** 05/17/07 01:29 SRA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
94-75-7	2,4-D	1	ND		0.0200
93-72-1	2,4,5-TP (Silvex)	1	ND		0.0200

2 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
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LELAP # 02006

Project: 2068847

Parameter	Batch	Blank	ARL	Units	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Arsenic	85281	ND	0.200	mg/L	2	2.232	112	2	0.00	2.119	2.073	106	104	2		79 - 122	68 - 130	20	
Barium	85281	ND	2.00	mg/L	2	2.286	114	2	0.14	2.215	2.172	104	101	2		80 - 120	56 - 133	20	
Cadmium	85281	ND	0.100	mg/L	2	2.166	108	2	0.00	2.017	1.964	101	98	3		81 - 119	44 - 146	20	
Chromium	85281	ND	0.200	mg/L	2	2.144	107	2	5.74	7.605	7.47	93	87	2		81 - 120	58 - 135	20	
Lead	85281	ND	0.200	mg/L	2	2.244	112	2	0.00	2.038	2.023	102	101	1		79 - 122	58 - 131	20	
Selenium	85281	ND	0.200	mg/L	2	2.245	112	2	0.03	2.21	2.179	109	107	1		76 - 120	59 - 131	20	
Silver	85281	ND	0.200	mg/L	1	1.129	113	1	0.01	1.091	1.069	108	106	2		67 - 129	10 - 154	20	
Mercury	85282	ND	0.200	ug/L	1	1.048	105	1	0.03	1.058	1.034	103	101	2		80 - 120	75 - 125	20	
Arsenic	85554	ND	0.200	mg/L	2	2.125	106	2	0.00	2.051	2.218	103	111	8		79 - 122	68 - 130	20	
Barium	85554	ND	2.00	mg/L	2	2.168	108	2	0.86	2.967	2.992	105	107	1		80 - 120	56 - 133	20	
Cadmium	85554	ND	0.100	mg/L	2	2.048	102	2	0.00	1.968	2.007	98	100	2		81 - 119	44 - 146	20	
Chromium	85554	ND	0.200	mg/L	2	2.032	102	2	0.00	1.961	2.004	98	100	2		81 - 120	58 - 135	20	
Lead	85554	ND	0.200	mg/L	2	2.178	109	2	0.00	1.925	2.053	96	103	6		79 - 122	58 - 131	20	
Selenium	85554	ND	0.200	mg/L	2	2.142	107	2	0.12	2.188	2.293	104	109	5		76 - 120	59 - 131	20	
Silver	85554	ND	0.200	mg/L	1	1.084	108	1	0.00	1.085	1.068	109	107	2		67 - 129	10 - 154	20	
Mercury	85555	ND	0.200	ug/L	1	0.9202	92	1	0.02	0.9347	0.9305	92	91	0		80 - 120	75 - 125	20	

5/18/2007 17:29:08

* denotes recovery outside of QC limits.
ARL denotes Adjusted Reporting Limit, corrected for sample size, dilution and moisture content as applicable.
MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health .Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270
Pennsylvania DEP (NELAC) 68-04202

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New Orleans Laboratory

Report of Quality Control

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2068847

Parameter	Batch	Blank	ARL	Units	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Flash Point	85156			deg C	27	28	104									-	-		
pH	85183			1. Units	6	5.96	99		1.56						4	97 - 103	-	20	
Cyanide, Reac	85286	ND	25.0	mg/kg	100	9.565	10	100	0.07	0.28		0 *			0	1 - 110	1 - 110	20	Q1
Sulfide, Reacti	85287	ND	50.0	mg/kg	500	420	84	500	40.00	420		76			0	1 - 110	1 - 110	20	
pH	85410			1. Units	6	5.98	100		6.31						0	97 - 103	-	20	
Flash Point	85698			deg C	27	28	104									-	-		

* denotes recovery outside of QC limits.
ARL denotes Adjusted Reporting Limit, corrected for sample size, dilution and moisture content as applicable.
MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

5/18/2007 17:29:10

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
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Kansas Dept. of Health .Environment - E-10266
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Pennsylvania DEP (NELAC) 68-04202

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New Orleans Laboratory

Report Qualifiers

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2068847

ALL Qualifiers

Qualifier	Qualifier Description
N	See narrative for a detailed explanation.

Analyte Qualifiers

Qualifier	Qualifier Description
A11	This analyte is a common solvent. Its presence in field samples may be an artifact of sample collection, transport, laboratory storage or analysis.
G1	Interferences are present which caused poor surrogate recovery.

General Qualifiers

Qualifier	Qualifier Description
D1	The analysis was performed at a dilution due to the high analyte concentration.
D2	The analysis was performed at a dilution due to the presence of matrix interferences.

QC Qualifiers

Qualifier	Qualifier Description
Q1	The matrix spike recoveries are poor. Acceptable method performance for this analyte has been demonstrated by the laboratory control sample recovery.
Q5	Insufficient sample was provided to perform matrix spike analyses on any sample in this analytical batch. Method performance for this analyte has been demonstrated by the laboratory control sample recovery.

Sample Qualifiers

Qualifier	Qualifier Description
M1	The sample required reextraction and/or reanalysis due to surrogate recoveries outside the QC limits. Reanalysis yielded similar results, indicating a sample matrix effect. The results reported are from the original analysis.

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Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health .Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270
Pennsylvania DEP (NELAC) 68-04202

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

2068847

Page: | of

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: ARCADIS	Report To: Craig Derouen	Attention: ARCADIS - Accounts Payable
Address: 10352 Plaza Americana Drive	Copy To: Jane Kennedy	Company Name: ARCADIS
Baton Rouge, Louisiana 70816		Address: 10352 Plaza Americana; Baton Rouge, LA 70819
Email To: Craig.Derouen@arcadis-us.com; Jane.Kennedy@arcadis-us.com	Purchase Order No.:	Pace Quote Reference:
Phone: (225) 292-1004 Fax: (225) 218-9677	Project Name: MS Bluffs (Vicksburg, MS)	Pace Project Manager: Cindy Olavesen 504-305-3626
Requested Due Date/TAT:	Project Number: LA002656.0001	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER MDEQ TRGs
SITE LOCATION GA ☐ LA ☐ IN ☐ MI ☐ NC OH ☐ SC ☐ WI ☑ OTHER MS

Filtered (Y/N)

Requested Analysis

Valid Matrix Codes: MATRIX / CODE — DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; ANIMAL TISSUE AT; OTHER OT; TISSUE TS

ITEM #	Section D Required Client Information — SAMPLE ID (One Character per box. (A-Z, 0-9 / ,-) Samples IDs MUST BE UNIQUE)	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	TCLP VOA	TCLP SEMIVOLATILE	TCLP HERBICIDES	TCLP PESTICIDES	TCLP METALS	RCI	Pace Project Number / Lab I.D.
1	E-6119 T-552	SL	G	4-23-07	1145				2	X			20		5/6	310		X	X	X	X	X	X	Waste Chemistry
2	T-561	SL	G	4-23-07	1310				3	X			318			311		X	X	X	X	X	X	"
3	T-543	SL	G	4-23-07	1330				2	X						311		X	X	X	X	X	X	"
4	T-513	WW	G	"	1400				3	X						320		X	X	X	X	X	X	"
5	T-512	SL	G	"	1421				2	X						312		X	X	X	X	X	X	"
6	T-549	SL	G	"	1445				2	X						313		X	X	X	X	X	X	"
7	T-540	WW	G	"	1505				3	X						321		X	X	X	X	X	X	"
8	T-516	SL	G	"	1530				2	X						314		X	X	X	X	X	X	"
9	T-1109	Oil	G	4/24/07	0750				3	X						315		X	X	X	X	X	X	"
10	T-1110	Oil	G	"	0840				3	X						316		X	X	X	X	X	X	"
11	T-2014	SL	G	"	1100				2	X						317		X	X	X	X	X	X	"
12																								

Additional Comments:

MDEQ Tier 1 TRG Detection Limits

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature]	4/25/07	1130	[signature] Pace	4-25-07	1130
[signature]	4-25-07	1450	[signature] Pace	4-25-07	1450

SAMPLE CONDITIONS

Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
3.6	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kipper Montgomery

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM / DD / YY): 04/24/07

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

2068847 Page: 1 of 1

Section A Required Client Information:

Company: ARCADIS	
Address: 10352 Plaza Americana Drive	
Baton Rouge, Louisiana 70816	
Email To: Craig.Derouen@arcadis-us.com; Jane.Kennedy@arcadis-us.com	
Phone: (225) 292-1004 Fax: (225) 218-9677	
Requested Due Date/TAT:	

Section B Required Project Information:

Report To: Craig Derouen	
Copy To: Jane Kennedy	
Purchase Order No.:	
Project Name: MS Bluffs (Vicksburg, MS)	
Project Number: LA002656.0001	

Section C Invoice Information:

Attention: ARCADIS - Accounts Payable	
Company Name: ARCADIS	
Address: 10352 Plaza Americana; Baton Rouge, LA 70819	
Pace Quote Reference:	
Pace Project Manager: Cindy Olavesen 504-305-3626	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☑ RCRA ☐ OTHER MDEQ TRGs

SITE LOCATION ☐ GA ☐ IL ☐ IN ☐ MI ☐ NC ☑ OH ☐ SC ☐ WV ☑ OTHER MS

Section D Required Client Information

SAMPLE ID
One Character per box.
(A-Z, 0-9 / ,-)
Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis: TCLP VOA	TCLP SEMIVOLATILE	TCLP HERBICIDES	TCLP PESTICIDES	TCLP METALS	RCI	Pace Project Number / Lab I.D.
1	T-552	SL	G	4-23-07	1145				2	X		205	16	310			X	X	X	X	X	X		Waste Characterization
2	T-561	SL	G	4-23-07	1310				3	X		318	317	0			X	X	X	X	X	X		"
3	T-543	SL	G	4-23-07	1330				2	X				311			X	X	X	X	X	X		"
4	T-513	WW	G	"	1400				3	X				320			X	X	X	X	X	X		"
5	T-512	SL	G	"	1421				2	X				312			X	X	X	X	X	X		"
6	T-549	SL	G	"	1445				2	X				313			X	X	X	X	X	X		"
7	T-540	WW	G	"	1505				3	X				321			X	X	X	X	X	X		"
8	T-516	SL	G	"	1530				2	X				314			X	X	X	X	X	X		"
9	T-1109	OIL	G	4/24/07	0750				3	X				315			X	X	X	X	X	X		"
10	T-1110	OIL	G	"	0840				3	X				316			X	X	X	X	X	X		"
11	T-2014	SL	G	"	1100				2	X				317			X	X	X	X	X	X		"
12																								

Additional Comments:

MDEQ Tier 1 TRG Detection Limits

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[illegible]	4/24/07	1150	[illegible] Pace	4-25-07	1350
[illegible]	4-25-07	1450	[illegible] Pace	4-25-07	1450

SAMPLE CONDITIONS

Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
3.6	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kipper Montgomery
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM / DD / YY): 04/24/07

E-File,(ALLQ020rev.3,31Mar05), 13Jun2005

Pace Analytical®
New Orleans Laboratory

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

May 18, 2007

Craig Derouen
Arcadis Geraghty & Miller
10352 Plaza Americana Drive
Baton Rouge, LA 70816

RE: Project: 2068893
RE: Project ID: MS BLUFFS/LA002656.0001

Dear Craig Derouen:

Enclosed are the analytical results for sample(s) received by the laboratory on April 26, 2007. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Cindy Olavesen

Cindy Olavesen

ACCREDITED IN ACCORDANCE WITH nelac

REPORT OF LABORATORY ANALYSIS

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Phone: 504.469.0333
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LELAP # 02006

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New Orleans Laboratory

Report of Laboratory Analysis

Project Number: 2068893

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5/18/2007 15:36:34

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New Orleans Laboratory

Sample Cross Reference Report

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.0001

Project No.: 2068893

Sample ID	Lab ID	Matrix	Collection Date/Time		Received Date/Time	
T-13W	20516522	Water	04/24/2007	12:45	04/26/2007	12:40
C-15	20516523	Other	04/24/2007	14:15	04/26/2007	12:40
K-CARB	20516524	Other	04/24/2007	15:30	04/26/2007	12:40

5/18/2007 15:36:37

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health .Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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Project Narrative

Pace Analytical Services, Inc.
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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: **2068893**

Narrative detail for GC semi-volatiles analyses:

Herbicide samples 20516522 and 20516524 were re-extracted due to low surrogate recoveries. Re-extractions were performed outside the holding time. Both sets of results were included in the report for these two samples.

The re-extraction for herbicide sample 20516524 again yielded low surrogate recoveries, indicating a matrix effect.

Sample 20516522 underwent a reaction upon addition of acid during both extractions; the glassware became warm and there was visible smoke. The second analysis severely overloaded the GC-ECD and was reinjected at a dilution.

The surrogates were therefore diluted out in the re-analysis. However, since the low surrogate recoveries were obviously related to the nature of the sample matrix, no further corrective action was taken.

Narrative detail for GC/MS semi-volatiles analyses:

Sample 20516522 required re-extraction due to poor surrogate recoveries. Re-analysis results were similar to original, indicating a matrix effect.

Sample 20516523 yielded poor surrogate recoveries and very poor internal standard responses. The sample was re-extracted. Re-extraction results were similar to the original results, indicating a matrix effect.

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Project Narrative

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Phone: 504.469.0333
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LELAP # 02006

Project: 2068893

Sample Receipt Condition:

All samples were received in accordance with EPA protocol.

Holding Times (Qualified):

These holding times were exceeded due to sample receipt or re-extraction after the holding time had expired.

See the previous page for a detailed explanation:

Sample 20516522 analysis 35208151Le 8151 TCLP CLLE Herbs

Sample 20516522 analysis 35358270Le 8270 TCLP CLLE SVOAs

Sample 20516523 analysis 35358270Le 8270 TCLP CLLE SVOAs

Sample 20516524 analysis 35208151Le 8151 TCLP CLLE Herbs

Blanks:

All blank results were below reporting limits.

Laboratory Control Samples:

All LCS recoveries were within QC limits.

Matrix Spikes and Duplicates:

MS or MSD recoveries outside of QC limits are qualified in the Report of Quality Control section.

Surrogates:

Surrogate recoveries outside of QC limits are qualified in the surrogate results section.

Regulatory, Permit or Client Specified Limits:

Results were found that exceeded regulatory, permit or client specified limits:

Method EPA 6010 sample 20516523 Chromium result 63.9mg/L is greater than 5mg/L limit

Method EPA 6010 sample 20516522 Selenium reporting limit 2mg/L is greater than 1mg/L limit

Method EPA 6010 sample 20516524 Selenium reporting limit 2mg/L is greater than 1mg/L limit

Method EPA 8081 sample 20516523 Heptachlor reporting limit .01mg/L is greater than .008mg/L limit

Method EPA 8081 sample 20516523 Heptachlor epoxide reporting limit .01mg/L is greater than .008mg/L limit

Method EPA 8270 sample 20516523 2,4-Dinitrotoluene reporting limit .5mg/L is greater than .13mg/L limit

Method EPA 8270 sample 20516523 2,4-Dinitrotoluene reporting limit .5mg/L is greater than .13mg/L limit

Method EPA 8270 sample 20516523 Hexachlorobenzene reporting limit .5mg/L is greater than .13mg/L limit

Method EPA 8270 sample 20516523 Hexachlorobenzene reporting limit .5mg/L is greater than .13mg/L limit

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
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Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
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Project Narrative

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2068893

Analytical Method	Batch	Sample used for QC
EPA 8081	85398	Client sample T-552 from project 2068847
EPA 8151	85427	Client sample T-543 from project 2068847
EPA 6010	85281	Batch sample from another client
EPA 7470	85282	Client sample T-552 from project 2068847
EPA 8270	85428	Client sample T-512 from project 2068847
EPA 8260	85335	Client sample T-552 from project 2068847
EPA 9040	85183	Batch sample from another client
EPA 9045	85410	Client sample T-552 from project 2068847
SW-846 7.3.4.2	85521	Project sample T-13W
SW-846 7.3.3.2	85520	Project sample T-13W

For the sample used as the original for the DUP or MS/MSD for the batch:

Project sample means a sample from this project was used.
Client sample means a sample from the same client but in a different project was used.
Batch sample means a sample from the a different client was used.

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
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Kansas Dept. of Health Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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New Orleans Laboratory

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: T-13W
Site: None
Project: MS BLUFFS/LA002656.0001
Project No.: 2068893
Sample Qu:
Lab ID: 20516522 (TCLP)
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: TCLP
Batch: 85335
Method: 8260 VOAs TCLP
Units: mg/L
Target List: 8260_LL20
Collected: 04/24/07
Received: 04/26/07
Prep Factor: 1
Prepared: 05/03/07
Analyzed: 05/03/07 15:57 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	ND	M1	0.100	0.500
78-93-3	2-Butanone (MEK)	1	ND	M1	0.200	200.
56-23-5	Carbon tetrachloride	1	ND	M1	0.100	0.500
108-90-7	Chlorobenzene	1	ND	M1	0.100	100.
67-66-3	Chloroform	1	ND	M1	0.100	6.00
107-06-2	1,2-Dichloroethane	1	ND	M1	0.100	0.500
75-35-4	1,1-Dichloroethene	1	ND	M1	0.100	0.700
127-18-4	Tetrachloroethene	1	ND	M1	0.100	0.700
79-01-6	Trichloroethene	1	ND	M1	0.100	0.500
75-01-4	Vinyl chloride	1	ND	M1	0.100	0.200

10 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
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5/18/2007 15:37:19

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Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: T-13W
Site: None
Project: MS BLUFFS/LA002656.0001
Project No.: 2068893
Sample Qu:
Lab ID: 20516522 (TCLP)RE2
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: TCLP
Batch: 85428
Method: 8270 SVOAs TCLP
Units: mg/L
Target List: 8270_LL20
Collected: 04/24/07
Received: 04/26/07
Prep Factor: 1
Prepared: 05/04/07
Analyzed: 05/07/07 17:05 JAM

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
106-46-7	1,4-Dichlorobenzene	1	ND	N	0.100	7.50
121-14-2	2,4-Dinitrotoluene	1	ND	N	0.100	0.130
87-68-3	Hexachloro-1,3-butadiene	1	ND	N	0.100	0.500
118-74-1	Hexachlorobenzene	1	ND	N	0.100	0.130
67-72-1	Hexachloroethane	1	ND	N	0.100	3.00
95-48-7	2-Methylphenol (o-Cresol)	1	ND	N	0.100	200.
	3&4-Methylphenol	1	ND	N	0.200	200.
98-95-3	Nitrobenzene	1	ND	N	0.100	2.00
87-86-5	Pentachlorophenol	1	ND	N	0.250	100.
110-86-1	Pyridine	1	ND	N	0.100	5.00
95-95-4	2,4,5-Trichlorophenol	1	ND	N	0.250	400.
88-06-2	2,4,6-Trichlorophenol	1	ND	N	0.100	2.00

12 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: T-13W
Site: None
Project: MS BLUFFS/LA002656.0001
Project No.: 2068893
Sample Qu:
Lab ID: 20516522 (TCLP)RE3
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: TCLP
Batch: 85684
Method: 8270 SVOAs TCLP
Units: mg/L
Target List: 8270 LL20
Collected: 04/24/07
Received: 04/26/07
Prep Factor: 1
Prepared: 05/09/07
Analyzed: 05/10/07 14:08 JAM

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
106-46-7	1,4-Dichlorobenzene	1	ND	N	0.100	7.50
121-14-2	2,4-Dinitrotoluene	1	ND	N	0.100	0.130
87-68-3	Hexachloro-1,3-butadiene	1	ND	N	0.100	0.500
118-74-1	Hexachlorobenzene	1	ND	N	0.100	0.130
67-72-1	Hexachloroethane	1	ND	N	0.100	3.00
95-48-7	2-Methylphenol (o-Cresol)	1	ND	N	0.100	200.
	3&4-Methylphenol	1	ND	N	0.200	200.
98-95-3	Nitrobenzene	1	ND	N	0.100	2.00
87-86-5	Pentachlorophenol	1	ND	N	0.250	100.
110-86-1	Pyridine	1	ND	N	0.100	5.00
95-95-4	2,4,5-Trichlorophenol	1	ND	N	0.250	400.
88-06-2	2,4,6-Trichlorophenol	1	ND	N	0.100	2.00

12 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: C-15 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2068893 **Sample Qu:**

Lab ID: 20516523 (TCLP) **Matrix:** Other **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 85335

Method: 8260 VOAs TCLP **Units:** mg/L **Target List:** 8260_LL20

Collected: 04/24/07 **Received:** 04/26/07

Prep Factor: 1 **Prepared:** 05/01/07 **Analyzed:** 05/01/07 18:00 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	ND		0.100	0.500
78-93-3	2-Butanone (MEK)	1	ND	A11	0.200	200.
56-23-5	Carbon tetrachloride	1	ND		0.100	0.500
108-90-7	Chlorobenzene	1	ND		0.100	100.
67-66-3	Chloroform	1	ND		0.100	6.00
107-06-2	1,2-Dichloroethane	1	ND		0.100	0.500
75-35-4	1,1-Dichloroethene	1	ND		0.100	0.700
127-18-4	Tetrachloroethene	1	ND		0.100	0.700
79-01-6	Trichloroethene	1	ND		0.100	0.500
75-01-4	Vinyl chloride	1	ND		0.100	0.200

10 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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Client: Arcadis Geraghty & Miller

Client ID: C-15 | **Site:** None

Project: MS BLUFFS/LA002656.0001 | **Project No.:** 2068893 | **Sample Qu:**

Lab ID: 20516523 (TCLP) | **Matrix:** Other | **% Moisture:** n/a

Description: None | **Prep Level:** TCLP | **Batch:** 85428

Method: 8270 SVOAs TCLP | **Units:** mg/L | **Target List:** 8270 LL20

Collected: 04/24/07 | **Received:** 04/26/07

Prep Factor: 1 | **Prepared:** 05/04/07 | **Analyzed:** 05/07/07 17:34 JAM

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
106-46-7	1,4-Dichlorobenzene	1	ND	N,P2	0.500	7.50
121-14-2	2,4-Dinitrotoluene	1	ND	N,P2	0.500	0.130
87-68-3	Hexachloro-1,3-butadiene	1	ND	N,P2	0.500	0.500
118-74-1	Hexachlorobenzene	1	ND	N,P2	0.500	0.130
67-72-1	Hexachloroethane	1	ND	N,P2	0.500	3.00
95-48-7	2-Methylphenol (o-Cresol)	1	ND	N,P2	0.500	200.
	3&4-Methylphenol	1	ND	N,P2	1.00	200.
98-95-3	Nitrobenzene	1	ND	N,P2	0.500	2.00
87-86-5	Pentachlorophenol	1	ND	N,P2	1.25	100.
110-86-1	Pyridine	1	ND	N,P2	0.500	5.00
95-95-4	2,4,5-Trichlorophenol	1	ND	N,P2	1.25	400.
88-06-2	2,4,6-Trichlorophenol	1	ND	N,P2	0.500	2.00

12 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: C-15 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2068893 **Sample Qu:**

Lab ID: 20516523 (TCLP)RE1 **Matrix:** Other **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 85684

Method: 8270 SVOAs TCLP **Units:** mg/L **Target List:** 8270 LL20

Collected: 04/24/07 **Received:** 04/26/07

Prep Factor: 1 **Prepared:** 05/09/07 **Analyzed:** 05/10/07 14:36 JAM

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
106-46-7	1,4-Dichlorobenzene	1	ND	N	0.500	7.50
121-14-2	2,4-Dinitrotoluene	1	ND	N	0.500	0.130
87-68-3	Hexachloro-1,3-butadiene	1	ND	N	0.500	0.500
118-74-1	Hexachlorobenzene	1	ND	N	0.500	0.130
67-72-1	Hexachloroethane	1	ND	N	0.500	3.00
95-48-7	2-Methylphenol (o-Cresol)	1	ND	N	0.500	200.
	3&4-Methylphenol	1	ND	N	1.00	200.
98-95-3	Nitrobenzene	1	ND	N	0.500	2.00
87-86-5	Pentachlorophenol	1	ND	N	1.25	100.
110-86-1	Pyridine	1	ND	N	0.500	5.00
95-95-4	2,4,5-Trichlorophenol	1	ND	N	1.25	400.
88-06-2	2,4,6-Trichlorophenol	1	ND	N	0.500	2.00

12 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: K-CARB
Site: None
Project: MS BLUFFS/LA002656.0001
Project No.: 2068893
Sample Qu:
Lab ID: 20516524 (TCLP)
Matrix: Other
% Moisture: n/a
Description: None
Prep Level: TCLP
Batch: 85335
Method: 8260 VOAs TCLP
Units: mg/L
Target List: 8260_LL20
Collected: 04/24/07
Received: 04/26/07
Prep Factor: 1
Prepared: 05/01/07
Analyzed: 05/01/07 18:19 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	1	ND		0.100	0.500
78-93-3	2-Butanone (MEK)	1	ND	A11	0.200	200.
56-23-5	Carbon tetrachloride	1	ND		0.100	0.500
108-90-7	Chlorobenzene	1	ND		0.100	100.
67-66-3	Chloroform	1	ND		0.100	6.00
107-06-2	1,2-Dichloroethane	1	ND		0.100	0.500
75-35-4	1,1-Dichloroethene	1	ND		0.100	0.700
127-18-4	Tetrachloroethene	1	ND		0.100	0.700
79-01-6	Trichloroethene	1	ND		0.100	0.500
75-01-4	Vinyl chloride	1	ND		0.100	0.200

10 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: K-CARB
Site: None
Project: MS BLUFFS/LA002656.0001
Project No.: 2068893
Sample Qu:
Lab ID: 20516524 (TCLP)
Matrix: Other
% Moisture: n/a
Description: None
Prep Level: TCLP
Batch: 85428
Method: 8270 SVOAs TCLP
Units: mg/L
Target List: 8270 LL20
Collected: 04/24/07
Received: 04/26/07
Prep Factor: 1
Prepared: 05/04/07
Analyzed: 05/07/07 18:04 JAM

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
106-46-7	1,4-Dichlorobenzene	1	ND		0.100	7.50
121-14-2	2,4-Dinitrotoluene	1	ND		0.100	0.130
87-68-3	Hexachloro-1,3-butadiene	1	ND		0.100	0.500
118-74-1	Hexachlorobenzene	1	ND		0.100	0.130
67-72-1	Hexachloroethane	1	ND		0.100	3.00
95-48-7	2-Methylphenol (o-Cresol)	1	ND		0.100	200.
	3&4-Methylphenol	1	ND		0.200	200.
98-95-3	Nitrobenzene	1	ND		0.100	2.00
87-86-5	Pentachlorophenol	1	ND		0.250	100.
110-86-1	Pyridine	1	ND		0.100	5.00
95-95-4	2,4,5-Trichlorophenol	1	ND		0.250	400.
88-06-2	2,4,6-Trichlorophenol	1	ND		0.100	2.00

12 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: T-13W
Site: None
Project: MS BLUFFS/LA002656.0001
Project No.: 2068893
Sample Qu:
Lab ID: 20516522 (TCLP)
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: TCLP
Batch: 85398
Method: 8081 Pests TCLP
Units: mg/L
Target List: 8081 LL20
Collected: 04/24/07
Received: 04/26/07
Prep Factor: 1
Prepared: 05/02/07
Analyzed: 05/07/07 22:29 SLF

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
58-89-9	gamma-BHC (Lindane)	1	ND		0.000500	0.400
57-74-9	Chlordane	1	ND		0.00100	0.0300
72-20-8	Endrin	1	ND		0.00100	0.0200
76-44-8	Heptachlor	1	ND		0.000500	0.00800
1024-57-3	Heptachlor epoxide	1	ND		0.000500	0.00800
72-43-5	Methoxychlor	1	ND		0.00500	10.0
8001-35-2	Toxaphene	1	ND		0.0200	0.500

7 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Client: Arcadis Geraghty & Miller

Client ID: T-13W
Site: None
Project: MS BLUFFS/LA002656.0001
Project No.: 2068893
Sample Qu:
Lab ID: 20516522 (TCLP)
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: TCLP
Batch: 85427
Method: 8151 Herbs TCLP
Units: mg/L
Target List: 8151 LL20
Collected: 04/24/07
Received: 04/26/07
Prep Factor: 1
Prepared: 05/03/07
Analyzed: 05/11/07 10:50 SRA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
94-75-7	2,4-D	1	ND	N	0.0200	10.0
93-72-1	2,4,5-TP (Silvex)	1	ND	N	0.0200	1.00

2 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: T-13W
Site: None
Project: MS BLUFFS/LA002656.0001
Project No.: 2068893
Sample Qu:
Lab ID: 20516522 (TCLP)RE1
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: TCLP
Batch: 85795
Method: 8151 Herbs TCLP
Units: mg/L
Target List: 8151_LL20
Collected: 04/24/07
Received: 04/26/07
Prep Factor: 1
Prepared: 05/14/07
Analyzed: 05/17/07 10:26 SRA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
94-75-7	2,4-D	50	ND	D2,N	1.00	10.0
93-72-1	2,4,5-TP (Silvex)	50	ND	D2,N	1.00	1.00

2 compound(s) reported

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The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: C-15 | **Site:** None

Project: MS BLUFFS/LA002656.0001 | **Project No.:** 2068893 | **Sample Qu:**

Lab ID: 20516523 (TCLP) | **Matrix:** Other | **% Moisture:** n/a

Description: None | **Prep Level:** TCLP | **Batch:** 85398

Method: 8081 Pests TCLP | **Units:** mg/L | **Target List:** 8081 LL20

Collected: 04/24/07 | **Received:** 04/26/07

Prep Factor: 1 | **Prepared:** 05/02/07 | **Analyzed:** 05/09/07 12:26 SLF

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
58-89-9	gamma-BHC (Lindane)	20	ND	D2	0.0100	0.400
57-74-9	Chlordane	20	ND	D2	0.0200	0.0300
72-20-8	Endrin	20	ND	D2	0.0200	0.0200
76-44-8	Heptachlor	20	ND	D2	0.0100	0.00800
1024-57-3	Heptachlor epoxide	20	ND	D2	0.0100	0.00800
72-43-5	Methoxychlor	20	ND	D2	0.100	10.0
8001-35-2	Toxaphene	20	ND	D2	0.400	0.500

7 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit denotes an actual regulatory limit or a client-requested notification limit.

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Louisiana Dept. of Environmental Quality (LELAP) - 02006
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Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health .Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: C-15 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2068893 **Sample Qu:**

Lab ID: 20516523 (TCLP) **Matrix:** Other **% Moisture:** n/a

Description: None **Prep Level:** TCLP **Batch:** 85427

Method: 8151 Herbs TCLP **Units:** mg/L **Target List:** 8151 LL20

Collected: 04/24/07 **Received:** 04/26/07

Prep Factor: 1 **Prepared:** 05/03/07 **Analyzed:** 05/13/07 19:56 SRA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
94-75-7	2,4-D	50	2.41	D2,P	1.00	10.0
93-72-1	2,4,5-TP (Silvex)	50	ND	D2	1.00	1.00

2 compound(s) reported

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Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: K-CARB
Site: None
Project: MS BLUFFS/LA002656.0001
Project No.: 2068893
Sample Qu:
Lab ID: 20516524 (TCLP)
Matrix: Other
% Moisture: n/a
Description: None
Prep Level: TCLP
Batch: 85398
Method: 8081 Pests TCLP
Units: mg/L
Target List: 8081 LL20
Collected: 04/24/07
Received: 04/26/07
Prep Factor: 1
Prepared: 05/02/07
Analyzed: 05/07/07 23:01 SLF

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
58-89-9	gamma-BHC (Lindane)	1	ND		0.000500	0.400
57-74-9	Chlordane	1	ND		0.00100	0.0300
72-20-8	Endrin	1	ND		0.00100	0.0200
76-44-8	Heptachlor	1	ND		0.000500	0.00800
1024-57-3	Heptachlor epoxide	1	ND		0.000500	0.00800
72-43-5	Methoxychlor	1	ND		0.00500	10.0
8001-35-2	Toxaphene	1	ND		0.0200	0.500

7 compound(s) reported

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: K-CARB
Site: None
Project: MS BLUFFS/LA002656.0001
Project No.: 2068893
Sample Qu:
Lab ID: 20516524 (TCLP)
Matrix: Other
% Moisture: n/a
Description: None
Prep Level: TCLP
Batch: 85427
Method: 8151 Herbs TCLP
Units: mg/L
Target List: 8151 LL20
Collected: 04/24/07
Received: 04/26/07
Prep Factor: 1
Prepared: 05/03/07
Analyzed: 05/11/07 11:45 SRA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
94-75-7	2,4-D	1	ND	N	0.0200	10.0
93-72-1	2,4,5-TP (Silvex)	1	ND	N	0.0200	1.00

2 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: K-CARB
Site: None
Project: MS BLUFFS/LA002656.0001
Project No.: 2068893
Sample Qu:
Lab ID: 20516524 (TCLP)RE1
Matrix: Other
% Moisture: n/a
Description: None
Prep Level: TCLP
Batch: 85795
Method: 8151 Herbs TCLP
Units: mg/L
Target List: 8151_LL20
Collected: 04/24/07
Received: 04/26/07
Prep Factor: 1
Prepared: 05/14/07
Analyzed: 05/17/07 03:47 SRA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
94-75-7	2,4-D	1	ND	N	0.0200	10.0
93-72-1	2,4,5-TP (Silvex)	1	ND	N	0.0200	1.00

2 compound(s) reported

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: T-13W
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001
Site: None
Lab ID: 20516522 (TCLP)
Project No.: 2068893
Description: None
Matrix: Water
%Moisture: n/a
Collected: 04/24/07
Received: 04/26/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010 (TC	85281	10	ND	D2	mg/L	2.00	30-Apr-07	03-May-07 07:02	KJR	5.00
Barium	EPA 6010 (TC	85281	10	ND	D2	mg/L	20.0	30-Apr-07	03-May-07 07:02	KJR	100.
Cadmium	EPA 6010 (TC	85281	10	ND	D2	mg/L	1.00	30-Apr-07	03-May-07 07:02	KJR	1.00
Chromium	EPA 6010 (TC	85281	10	ND	D2	mg/L	2.00	30-Apr-07	03-May-07 07:02	KJR	5.00
Lead	EPA 6010 (TC	85281	10	ND	D2	mg/L	2.00	30-Apr-07	03-May-07 07:02	KJR	5.00
Mercury	EPA 7470 (TC	85282	10	ND	D1	mg/L	0.0200	04-May-07	04-May-07 15:59	MHB1	0.200
Selenium	EPA 6010 (TC	85281	10	ND	D2	mg/L	2.00	30-Apr-07	03-May-07 07:02	KJR	1.00
Silver	EPA 6010 (TC	85281	10	ND	D2	mg/L	2.00	30-Apr-07	03-May-07 07:02	KJR	5.00

8 parameter(s) reported

5/18/2007 15:37:27

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Report of Laboratory Analysis

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1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: C-15 **Client:** Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.0001 **Site:** None

Lab ID: 20516523 (TCLP) **Project No.:** 2068893

Description: None **Matrix:** Other **%Moisture:** n/a

Collected: 04/24/07 **Received:** 04/26/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010 (TC	85281	1	ND		mg/L	0.200	30-Apr-07	03-May-07 06:30	KJR	5.00
Barium	EPA 6010 (TC	85281	1	ND		mg/L	2.00	30-Apr-07	03-May-07 06:30	KJR	100.
Cadmium	EPA 6010 (TC	85281	1	ND		mg/L	0.100	30-Apr-07	03-May-07 06:30	KJR	1.00
Chromium	EPA 6010 (TC	85281	1	63.9		mg/L	0.200	30-Apr-07	03-May-07 06:30	KJR	5.00
Lead	EPA 6010 (TC	85281	1	0.693		mg/L	0.200	30-Apr-07	03-May-07 06:30	KJR	5.00
Mercury	EPA 7470 (TC	85282	1	0.000396		mg/L	0.000200	04-May-07	04-May-07 16:01	MHB1	0.200
Selenium	EPA 6010 (TC	85281	1	ND		mg/L	0.200	30-Apr-07	03-May-07 06:30	KJR	1.00
Silver	EPA 6010 (TC	85281	1	ND		mg/L	0.200	30-Apr-07	03-May-07 06:30	KJR	5.00

8 parameter(s) reported

5/18/2007 15:37:27

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: K-CARB
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001
Site: None
Lab ID: 20516524 (TCLP)
Project No.: 2068893
Description: None
Matrix: Other
%Moisture: n/a
Collected: 04/24/07
Received: 04/26/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010 (TC	85281	10	ND	D2	mg/L	2.00	30-Apr-07	03-May-07 06:35	KJR	5.00
Barium	EPA 6010 (TC	85281	10	ND	D2	mg/L	20.0	30-Apr-07	03-May-07 06:35	KJR	100.
Cadmium	EPA 6010 (TC	85281	10	ND	D2	mg/L	1.00	30-Apr-07	03-May-07 06:35	KJR	1.00
Chromium	EPA 6010 (TC	85281	10	ND	D2	mg/L	2.00	30-Apr-07	03-May-07 06:35	KJR	5.00
Lead	EPA 6010 (TC	85281	10	ND	D2	mg/L	2.00	30-Apr-07	03-May-07 06:35	KJR	5.00
Mercury	EPA 7470 (TC	85282	10	ND	D1	mg/L	0.0200	04-May-07	04-May-07 16:03	MHB1	0.200
Selenium	EPA 6010 (TC	85281	10	ND	D2	mg/L	2.00	30-Apr-07	03-May-07 06:35	KJR	1.00
Silver	EPA 6010 (TC	85281	10	ND	D2	mg/L	2.00	30-Apr-07	03-May-07 06:35	KJR	5.00

8 parameter(s) reported

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LELAP # 02006

Client ID: T-13W
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001
Site: None
Lab ID: 20516522
Project No.: 2068893
Description: None
Matrix: Water
%Moisture: n/a
Collected: 04/24/07
Received: 04/26/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Cyanide, Reactive	SW-846 7.3.3.2	85520	1	ND		mg/kg	25.0	04-May-07	04-May-07 16:11	MHM	
Flash Point	EPA 1010	85698	1	>100		deg C		09-May-07	09-May-07 09:45	LJL	
pH	EPA 9040	85183	1	12.0		Std. Units		26-Apr-07	26-Apr-07 16:40	TAE	
Sulfide, Reactive	SW-846 7.3.4.2	85521	1	100.		mg/kg	50.0	04-May-07	04-May-07 08:50	LJL	

4 parameter(s) reported

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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
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LELAP # 02006

Client ID: C-15
Project: MS BLUFFS/LA002656.0001
Lab ID: 20516523
Description: None

Client: Arcadis Geraghty & Miller
Site: None
Project No.: 2068893
Matrix: Other **%Moisture:** n/a
Collected: 04/24/07 **Received:** 04/26/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Cyanide, Reactive	SW-846 7.3.3.2	85520	1	ND		mg/kg	25.0	04-May-07	04-May-07 16:11	MHM	
Flash Point	EPA 1010	85698	1	>100		deg C		09-May-07	09-May-07 09:45	LJL	
pH	EPA 9045	85410	1	0.680		Std. Units		02-May-07	02-May-07 16:35	LJL	
Sulfide, Reactive	SW-846 7.3.4.2	85521	1	60.0		mg/kg	50.0	04-May-07	04-May-07 08:50	LJL	

4 parameter(s) reported

5/18/2007 15:37:30

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Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
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For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: K-CARB
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001
Site: None
Lab ID: 20516524
Project No.: 2068893
Description: None
Matrix: Other
%Moisture: n/a
Collected: 04/24/07
Received: 04/26/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Cyanide, Reactive	SW-846 7.3.3.2	85520	1	ND		mg/kg	25.0	04-May-07	04-May-07 16:11	MHM	
Flash Point	EPA 1010	85698	1	>100		deg C		09-May-07	09-May-07 09:45	LJL	
pH	EPA 9045	85410	1	11.4		Std. Units		02-May-07	02-May-07 16:35	LJL	
Sulfide, Reactive	SW-846 7.3.4.2	85521	1	60.0		mg/kg	50.0	04-May-07	04-May-07 08:50	LJL	

4 parameter(s) reported

5/18/2007 15:37:30

ND denotes Not Detected at or above the adjusted reporting limit.
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For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
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Report of Quality Control

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Phone: 504.469.0333
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LELAP # 02006

Method: EPA 8260 **Project:** 2068893 **LCS:** 20517731 5/1/2007 12:17:00 PM

Batch: 85335 **MS:** 20517732 5/1/2007 1:37:00 PM

Units: mg/L **Original for MS:** 20516310 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Benzene	0.4	0.3758	94	0.4	0.00	0.3668	0.3806	92	95	4	70 - 135	60 - 144	20	
2-Butanone (MEK)	0.4	0.4332	108	0.4	0.00	0.5284	0.5634	132	141	6	32 - 157	20 - 168	20	A11
Carbon tetrachloride	0.4	0.4212	105	0.4	0.00	0.3716	0.3806	93	95	2	50 - 166	44 - 170	20	
Chlorobenzene	0.4	0.4044	101	0.4	0.00	0.4024	0.4024	101	101	0	73 - 129	67 - 134	20	
Chloroform	0.4	0.3972	99	0.4	0.00	0.4058	0.4172	102	104	3	71 - 133	64 - 140	20	
1,2-Dichloroethane	0.4	0.3938	99	0.4	0.00	0.4498	0.488	113	122	8	53 - 164	51 - 161	20	
1,1-Dichloroethene	0.4	0.204	51	0.4	0.00	0.372	0.203	93	51	59 *	51 - 143	44 - 152	20	
Tetrachloroethene	0.4	0.4972	124	0.4	0.00	0.461	0.446	115	112	3	42 - 156	39 - 151	20	
Trichloroethene	0.4	0.4222	106	0.4	0.00	0.4064	0.4184	102	105	3	69 - 136	61 - 141	20	
Vinyl chloride	0.4	0.305	76	0.4	0.00	0.2668	0.269	67	67	1	40 - 146	28 - 161	20	

10 compound(s) reported

5/18/2007 15:37:33

* denotes recovery outside of QC limits.

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Method: EPA 8270 **Project:** 2068893 **LCS:** 20518529 5/7/2007 11:54:00 AM

Batch: 85428 **MS:** 20518530 5/7/2007 12:23:00 PM

Units: mg/L **Original for MS:** 20516312 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
1,4-Dichlorobenzene	0.5	0.2191	44	0.5	0.00	0.2638	0.3034	53	61	14	17 - 97	12 - 98	20	
2,4-Dinitrotoluene	0.5	0.3694	74	0.5	0.00	0.3769	0.4324	75	87	14	43 - 121	36 - 125	20	
Hexachloro-1,3-butadiene	0.5	0.1911	38	0.5	0.00	0.1835	0.2259	37	45	21 *	20 - 101	14 - 102	20	
Hexachlorobenzene	0.5	0.3525	71	0.5	0.00	0.3123	0.3838	63	77	21 *	44 - 119	32 - 119	20	
Hexachloroethane	0.5	0.1711	34	0.5	0.00	0.2064	0.2529	41	51	20	15 - 96	10 - 101	20	
2-Methylphenol (o-Cresol)	0.5	0.34	68	0.5	0.00	0.3763	0.4058	75	81	8	32 - 115	27 - 118	20	
3&4-Methylphenol	0.5	0.3307	66	0.5	0.00	0.3425	0.3819	69	76	11	33 - 116	27 - 119	20	
Nitrobenzene	0.5	0.3293	66	0.5	0.00	0.339	0.3549	68	71	5	31 - 118	16 - 136	20	
Pentachlorophenol	0.5	0.2348	47	0.5	0.00	0.3526	0.4243	71	85	18	32 - 133	24 - 147	20	
Pyridine	0.5	0.3086	62	0.5	0.00	0.0415	0.0526	8 *	11 *	24 *	40 - 120	40 - 120	20	Q1
2,4,5-Trichlorophenol	0.5	0.4	80	0.5	0.00	0.448	0.465	90	93	4	41 - 120	35 - 122	20	
2,4,6-Trichlorophenol	0.5	0.3652	73	0.5	0.00	0.3775	0.4301	76	86	13	39 - 120	33 - 124	20	

12 compound(s) reported

5/18/2007 15:37:33

* denotes recovery outside of QC limits.

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

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LELAP # 02006

Method: EPA 8270 **Project:** 2068893 **LCS:** 20519662 5/10/2007 1:14:00 PM

Batch: 85684 **MS:**

Units: mg/L **Original for MS:**

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
1,4-Dichlorobenzene	0.5	0.1438	29								17 - 97	-		Q5
2,4-Dinitrotoluene	0.5	0.4094	82								43 - 121	-		Q5
Hexachloro-1,3-butadiene	0.5	0.1214	24								20 - 101	-		Q5
Hexachlorobenzene	0.5	0.3309	66								44 - 119	-		Q5
Hexachloroethane	0.5	0.1142	23								15 - 96	-		Q5
2-Methylphenol (o-Cresol)	0.5	0.41	82								32 - 115	-		Q5
3&4-Methylphenol	0.5	0.4152	83								33 - 116	-		Q5
Nitrobenzene	0.5	0.3311	66								31 - 118	-		Q5
Pentachlorophenol	0.5	0.2551	51								32 - 133	-		Q5
Pyridine	0.5	0.2607	52								40 - 120	-		Q5
2,4,5-Trichlorophenol	0.5	0.3353	67								41 - 120	-		Q5
2,4,6-Trichlorophenol	0.5	0.3582	72								39 - 120	-		Q5

12 compound(s) reported

5/18/2007 15:37:34

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Phone: 504.469.0333
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LELAP # 02006

Report: 2068893 **Batch: 85335**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20516522	Sample M1	111	20 *	100					
20516523	Sample	126	115	99					
20516524	Sample	111	100	100					
20517730	BLANK	113	117	99					
20517731	LCS	114	98	99					
20517732	MS	115	101	98					
20517733	MSD	115	104	99					
	QC limits:	71-129	68-124	74-122					

Sur 1: 4-Bromofluorobenzene (S)
Sur 2: Dibromofluoromethane (S)
Sur 3: Toluene-d8 (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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LELAP # 02006

Report: 2068893 **Batch: 85428**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20516522	Sample N	9 *	53	0 *	52	1 *	74		
20516523	Sample N,S1	0 *	1950 *	0 *	317 *	0 *	469 *		
20516524	Sample	46	84	51	82	63	89		
20518528	BLANK	79	78	38	89	31	91		
20518529	LCS	76	73	34	72	26	76		
20518530	MS	75	72	34	71	26	74		
20518531	MSD	82	80	41	74	32	84		
QC limits:		25-133	36-108	10-109	21-120	15-113	17-130		

Sur 1: 2,4,6-Tribromophenol (S)
Sur 2: 2-Fluorobiphenyl (S)
Sur 3: 2-Fluorophenol (S)
Sur 4: Nitrobenzene-d5 (S)
Sur 5: Phenol-d5 (S)
Sur 6: Terphenyl-d14 (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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Report: 2068893 **Batch: 85684**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20516522	Sample N	4 *	30 *	0 *	64	2 *	90		
20516523	Sample N,S1	1 *	9200 *	0 *	272 *	0 *	406 *		
20519661	BLANK	66	66	63	94	54	101		
20519662	LCS	63	62	58	70	50	74		
20520388	BLANK	66	54	26	78	19	78		
20520389	LCS	75	69	30	70	24	58		
QC limits:		25-133	36-108	10-109	21-120	15-113	17-130		

Sur 1: 2,4,6-Tribromophenol (S)
Sur 2: 2-Fluorobiphenyl (S)
Sur 3: 2-Fluorophenol (S)
Sur 4: Nitrobenzene-d5 (S)
Sur 5: Phenol-d5 (S)
Sur 6: Terphenyl-d14 (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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LELAP # 02006

Lab ID: 20517730 (TCLP)

Description: 8260 VOAs Full List TCLP, BLK **Project No.:** 2068893

Method: EPA 8260 (TCLP) **Batch:** 85335 **Units:** mg/L

Prep Factor: 1 **Leached:** **Prepared:** 01-May-07 **Analyzed:** 05/01/07 11:58 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
71-43-2	Benzene	1	ND		0.250
78-93-3	2-Butanone (MEK)	1	ND	A11	0.500
56-23-5	Carbon tetrachloride	1	ND		0.250
108-90-7	Chlorobenzene	1	ND		0.250
67-66-3	Chloroform	1	ND		0.250
107-06-2	1,2-Dichloroethane	1	ND		0.250
75-35-4	1,1-Dichloroethene	1	ND		0.250
127-18-4	Tetrachloroethene	1	ND		0.250
79-01-6	Trichloroethene	1	ND		0.250
75-01-4	Vinyl chloride	1	ND		0.250

10 compound(s) reported

5/18/2007 15:37:40

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Phone: 504.469.0333
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LELAP # 02006

Lab ID: 20518528 (TCLP)
Description: 8270 SVOAs TCLP Blank **Project No.:** 2068893
Method: EPA 8270 (TCLP) **Batch:** 85428 **Units:** mg/L

Prep Factor: 1 **Leached:** **Prepared:** 04-May-07 **Analyzed:** 05/07/07 11:25 JAM

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
106-46-7	1,4-Dichlorobenzene	1	ND		0.100
121-14-2	2,4-Dinitrotoluene	1	ND		0.100
87-68-3	Hexachloro-1,3-butadiene	1	ND		0.100
118-74-1	Hexachlorobenzene	1	ND		0.100
67-72-1	Hexachloroethane	1	ND		0.100
95-48-7	2-Methylphenol (o-Cresol)	1	ND		0.100
	3&4-Methylphenol	1	ND		0.200
98-95-3	Nitrobenzene	1	ND		0.100
87-86-5	Pentachlorophenol	1	ND		0.250
110-86-1	Pyridine	1	ND		0.100
95-95-4	2,4,5-Trichlorophenol	1	ND		0.250
88-06-2	2,4,6-Trichlorophenol	1	ND		0.100

12 compound(s) reported

5/18/2007 15:37:40

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DF denotes Dilution Factor.
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Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Lab ID: 20519661 (TCLP)

Description: 8270 SVOAs TCLP Blank **Project No.:** 2068893

Method: EPA 8270 (TCLP) **Batch:** 85684 **Units:** mg/L

Prep Factor: 1 **Leached:** **Prepared:** 09-May-07 **Analyzed:** 05/10/07 12:46 JAM

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
106-46-7	1,4-Dichlorobenzene	1	ND		0.100
121-14-2	2,4-Dinitrotoluene	1	ND		0.100
87-68-3	Hexachloro-1,3-butadiene	1	ND		0.100
118-74-1	Hexachlorobenzene	1	ND		0.100
67-72-1	Hexachloroethane	1	ND		0.100
95-48-7	2-Methylphenol (o-Cresol)	1	ND		0.100
	3&4-Methylphenol	1	ND		0.200
98-95-3	Nitrobenzene	1	ND		0.100
87-86-5	Pentachlorophenol	1	ND		0.250
110-86-1	Pyridine	1	ND		0.100
95-95-4	2,4,5-Trichlorophenol	1	ND		0.250
88-06-2	2,4,6-Trichlorophenol	1	ND		0.100

12 compound(s) reported

5/18/2007 15:37:40

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Method: EPA 8081 **Project:** 2068893 **LCS:** 20518205 5/7/2007 7:28:00 PM

Batch: 85398 **MS:** 20518206 5/7/2007 8:00:00 PM

Units: mg/L **Original for MS:** 20516310 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
gamma-BHC (Lindane)	0.005	0.003548	71	0.005	0.00	0.004717	0.00433	94	87	9	39 - 153	18 - 171	20	
Endrin	0.005	0.004493	90	0.005	0.00	0.006607	0.00597	132	119	10	49 - 171	30 - 187	20	
Heptachlor	0.005	0.003267	65	0.005	0.00	0.004843	0.004372	97	87	10	33 - 152	14 - 159	20	
Heptachlor epoxide	0.005	0.003345	67	0.005	0.00	0.00461	0.004164	92	83	10	45 - 144	24 - 158	20	
Methoxychlor	0.005	0.002918	58	0.005	0.00	0.005287	0.004806	106	96	10	19 - 178	10 - 194	20	

5 compound(s) reported

5/18/2007 15:37:43

* denotes recovery outside of QC limits.

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

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Method: EPA 8151 **Project:** 2068893 **LCS:** 20518519 5/10/2007 7:43:00 PM

Batch: 85427 **MS:** 20518520 5/10/2007 9:05:00 PM

Units: mg/L **Original for MS:** 20516311 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
2,4-D	0.1	0.1489	149	0.1	0.00	0.1474	0.1159	147	116	24 *	25 - 163	10 - 182	20	
2,4,5-TP (Silvex)	0.01	0.01566	157	0.01	0.00	0.0146	0.01136	141	109	25 *	30 - 165	15 - 174	20	

2 compound(s) reported

5/18/2007 15:37:43

* denotes recovery outside of QC limits.

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

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LELAP # 02006

Method: EPA 8151 **Project:** 2068893 **LCS:** 20520852 5/17/2007 1:57:00 AM

Batch: 85795 **MS:**

Units: mg/L **Original for MS:**

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
2,4-D	0.1	0.1346	135								25 - 163	-		
2,4,5-TP (Silvex)	0.01	0.01402	140								30 - 165	-		

2 compound(s) reported

* denotes recovery outside of QC limits.

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

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LELAP # 02006

Report: 2068893 **Batch: 85398**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20516522	Sample	79	83	52	52				
20516523	Sample D2	0 D	0 D	0 D	0 D				
20516524	Sample	63	58	21	21				
20518204	BLANK	83	85	56	55				
20518205	LCS	54	57	40	34				
20518206	MS	59	61	67	65				
20518207	MSD	50	54	56	53				
20519659	BLANK	71	69	70	69				
20519660	LCS	51	51	65	60				
QC limits:		10-157	10-157	18-171	18-171				

Sur 1: Decachlorobiphenyl (Conf)(S)
Sur 2: Decachlorobiphenyl (S)
Sur 3: Tetrachloro-m-xylene (Conf)(S)
Sur 4: Tetrachloro-m-xylene (S)

5/18/2007 15:37:46

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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New Orleans Laboratory

Report of Batch Surrogate Recovery

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Report: 2068893 **Batch: 85427**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20516522	Sample N	0 *	2 *						
20516523	Sample D2	0 D	0 D						
20516524	Sample N	0 *	0 *						
20518518	BLANK	123	126						
20518519	LCS	133	137						
20518520	MS	126	151						
20518521	MSD	104	111						
	QC limits:	10-181	10-181						

Sur 1: 2,4-DCPA (Conf)(S)
Sur 2: 2,4-DCPA (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Report: 2068893 **Batch: 85795**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20516522	Sample D2,N	0 D	0 D						
20516524	Sample N	3 *	3 *						
20520386	BLANK	106	105						
20520387	LCS	101	99						
20520851	BLANK	107	105						
20520852	LCS	120	117						
	QC limits:	10-181	10-181						

Sur 1: 2,4-DCPA (Conf)(S)
Sur 2: 2,4-DCPA (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

5/18/2007 15:37:46

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Report of Method Blank

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20518204 (TCLP)

Description: 8081 Pests TCLP Blank **Project No.:** 2068893

Method: EPA 8081 (TCLP) **Batch:** 85398 **Units:** mg/L

Prep Factor: 1 **Leached:** **Prepared:** 02-May-07 **Analyzed:** 05/07/07 19:11 SLF

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
58-89-9	gamma-BHC (Lindane)	1	ND		0.000500
57-74-9	Chlordane	1	ND		0.00100
72-20-8	Endrin	1	ND		0.00100
76-44-8	Heptachlor	1	ND		0.000500
1024-57-3	Heptachlor epoxide	1	ND		0.000500
72-43-5	Methoxychlor	1	ND		0.00500
8001-35-2	Toxaphene	1	ND		0.0200

7 compound(s) reported

5/18/2007 15:37:49

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20518518 (TCLP)
Description: 8151 Herbs TCLP Blank **Project No.:** 2068893
Method: EPA 8151 (TCLP) **Batch:** 85427 **Units:** mg/L

Prep Factor: 1 **Leached:** **Prepared:** 03-May-07 **Analyzed:** 05/10/07 19:15 SRA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
94-75-7	2,4-D	1	ND		0.0200
93-72-1	2,4,5-TP (Silvex)	1	ND		0.0200

2 compound(s) reported

5/18/2007 15:37:49

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Report of Method Blank

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20520851 (TCLP)
Description: 8151 Herbs TCLP Blank **Project No.:** 2068893
Method: EPA 8151 (TCLP) **Batch:** 85795 **Units:** mg/L

Prep Factor: 1 **Leached:** **Prepared:** 14-May-07 **Analyzed:** 05/17/07 01:29 SRA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
94-75-7	2,4-D	1	ND		0.0200
93-72-1	2,4,5-TP (Silvex)	1	ND		0.0200

2 compound(s) reported

5/18/2007 15:37:50

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

2068893

Page: 1 of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: ARCADIS	Report To: Craig Derouen	Attention: ARCADIS - Accounts Payable
Address: 10352 Plaza Americana Drive	Copy To: Jane Kennedy	Company Name: ARCADIS
Baton Rouge, Louisiana 70816		Address: 10352 Plaza Americana; Baton Rouge, LA 70819
Email To: Craig.Derouen@arcadis-us.com; Jane.Kennedy@arcadis-us.com	Purchase Order No.:	Pace Quote Reference:
Phone: (225) 292-1004 Fax: (225) 218-9677	Project Name: MS Bluffs (Vicksburg, MS)	Pace Project Manager: Cindy Olavesen 504-305-3626
Requested Due Date/TAT:	Project Number: LA002656.0001	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER MDEQ TRGs

SITE LOCATION ☐ GA ☐ IL ☐ IN ☐ MI ☐ NC ☐ OH ☐ SC ☑ WW ☐ OTHER MS

Section D Required Client Information

SAMPLE ID

One Character per box.
(A-Z, 0-9 / ,-)
Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL WP
WIPE	AR
AIR	OT
OTHER	TS
TISSUE	

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analyses: TCLP VOA	TCLP SEMIVOLATILE	TCLP HERBICIDES	TCLP PESTICIDES	TCLP METALS	RCI	Pace Project Number / Lab I.D.
1				4/24/07																				
2	T-13	WW	G	11	1245				3	X								X	X	X	X	X	X	2051625
3	NPF-DIESEL	P	G	11	1345				3	X								X	X	X	X	X	X	
4	C-15	P	G	11	1415				3	X								X	X	X	X	X	X	523
5	K-CARB	P	G	11	1530				3	X								X	X	X	X	X	X	524
6																								
7																								
8																								
9																								
10																								
11																								
12																								

Filtered (Y/N)

Requested Ana

Additional Comments:

MDEQ Tier 1 TRG Detection Limits

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	4/26/07	0945	PACE	4/26/07	0945
	4/26/07	1240	RB/Pace	4/26	1240

SAMPLE CONDITIONS

Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
	Y/N	Y/N	Y/N
2.3	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kipper Montgomery

SIGNATURE of SAMPLER:

DATE Signed (MM/DD/YY)

E-File,(ALLQ020rev.3,31Mar05), 13Jun2005

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The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

2068893

Page: 1 of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: ARCADIS	Report To: Craig Derouen	Attention: ARCADIS - Accounts Payable
Address: 10352 Plaza Americana Drive	Copy To: Jane Kennedy	Company Name: ARCADIS
Baton Rouge, Louisiana 70816		Address: 10352 Plaza Americana; Baton Rouge, LA 70819
Email To: Craig.Derouen@arcadis-us.com; Jane.Kennedy@arcadis-us.com	Purchase Order No.:	Pace Quote Reference:
Phone: (225) 292-1004 Fax: (225) 218-9677	Project Name: MS Bluffs (Vicksburg, MS)	Pace Project Manager: Cindy Olavesen 504-305-3626
Requested Due Date/TAT:	Project Number: LA002656.0001	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER MDEQ TRGs

SITE LOCATION ☐ GA ☐ IL ☐ IN ☐ MI ☐ NC ☐ OH ☐ SC ☐ WI ☑ OTHER MS

Section D Required Client Information

SAMPLE ID
One Character per box.
(A-Z, 0-9 / ,-)
Samples IDs MUST BE UNIQUE

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MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL WP
WIPE	AR
AIR	OT
OTHER	TS
TISSUE	

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Filtered (Y/N)	Requested Analysis: TCLP VOA	TCLP SEMIVOLATILE	TCLP HERBICIDES	TCLP PESTICIDES	TCLP METALS	RCI	Pace Project Number / Lab I.D.
1				4/24/07																					
2	T-13W	WW	G	"	1245				3	X									X	X	X	X	X	X	2051652
3	NPF-DIESEL	P	G	"	1345				3	X									X	X	X	X	X	X	4/26/07
4	C-15	P	G	"	1415				3	X					523				X	X	X	X	X	X	
5	K-CARB	P	G	"	1530				3	X					524				X	X	X	X	X	X	
6																									
7																									
8																									
9																									
10																									
11																									
12																									

Additional Comments:

MDEQ Tier 1 TRG Detection Limits

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature]	4/26/07	0945	[signature] PACE	4/26/07	0945
[signature]	4/26/07	1240 1000	RCB/Pace	4/26	1240

SAMPLE CONDITIONS

Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
	Y/N	Y/N	Y/N
2-3	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kipper Montgomery

SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY)

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Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

May 18, 2007

RECEIVED
MAY 2 9 2007
ARCADIS Geraghty & Miller

Craig Derouen
Arcadis Geraghty & Miller
10352 Plaza Americana Drive
Baton Rouge, LA 70816

RE: Project: 2069133
RE: Project ID: MS BLUFFS/LA002656.0001

Dear Craig Derouen:

Enclosed are the analytical results for sample(s) received by the laboratory on May 03, 2007. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Cindy Olavesen

Cindy Olavesen

ACCREDITED IN ACCORDANCE WITH nelac

REPORT OF LABORATORY ANALYSIS

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LELAP # 02006

Report of Laboratory Analysis

Project Number: 2069133

5/18/2007 17:46:55

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New Orleans Laboratory

Sample Cross Reference Report

Pace Analytical Services, Inc.
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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.0001

Project No.: 2069133

Sample ID	Lab ID	Matrix	Collection Date/Time	Received Date/Time	
TP-PZ-01	20518719	Water	05/01/2007	05/03/2007	10:00
TP-PZ-02	20518720	Water	05/02/2007	05/03/2007	10:00
TP-PZ-03	20518721	Water	05/01/2007	05/03/2007	10:00
TP-PZ-05	20518722	Water	05/01/2007	05/03/2007	10:00
TP-PZ-06	20518723	Water	05/01/2007	05/03/2007	10:00
TP-PZ-07	20518724	Water	05/01/2007	05/03/2007	10:00
TB050207	20518725	Water	05/01/2007	05/03/2007	10:00

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Project Narrative

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: **2069133**

Sample Receipt Condition:

All samples were received in accordance with EPA protocol.

Holding Times:

All holding times were met.

Blanks:

All blank results were below reporting limits.

Laboratory Control Samples:

LCS recoveries outside of QC limits are qualified in the Report of Quality Control section.

Matrix Spikes and Duplicates:

MS or MSD recoveries outside of QC limits are qualified in the Report of Quality Control section.

Surrogates:

Surrogate recoveries outside of QC limits are qualified in the surrogate results section.

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Project Narrative

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2069133

Analytical Method	Batch	Sample used for QC
EPA 8151	85356	Project sample TP-PZ-01
EPA 8081	85565	Project sample TP-PZ-01
EPA 6010	85651	Batch sample from another client
EPA 6010	85821	Batch sample from another client
EPA 8260	85536	Project sample TP-PZ-01

5/18/2007 17:47:28

For the sample used as the original for the DUP or MS/MSD for the batch:

Project sample means a sample from this project was used.
Client sample means a sample from the same client but in a different project was used.
Batch sample means a sample from the a different client was used.

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Report of Laboratory Analysis

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: TP-PZ-01 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2069133 **Sample Qu:**

Lab ID: 20518719 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 85536

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 05/01/07 **Received:** 05/03/07

Prep Factor: 1 **Prepared:** 05/04/07 **Analyzed:** 05/04/07 19:54 RMP

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

ND denotes Not Detected at or above the adjusted reporting limit.
A Prep Factor other than 1 accounts for a non-routine sample size.
Reporting/Detection Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit denotes an actual regulatory limit or a client-requested notification limit.

5/18/2007 17:47:31

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Pennsylvania DEP (NELAC) 68-04202

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New Orleans Laboratory

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: TP-PZ-01 | **Site:** None

Project: MS BLUFFS/LA002656.0001 | **Project No.:** 2069133 | **Sample Qu:**

Lab ID: 20518719 | **Matrix:** Water | **% Moisture:** n/a

Description: None | **Prep Level:** Water | **Batch:** 85536

Method: 8260 VOAs Water | **Units:** ug/L | **Target List:** 8260_WL20

Collected: 05/01/07 | **Received:** 05/03/07

Prep Factor: 1 | **Prepared:** 05/04/07 | **Analyzed:** 05/04/07 19:54 RMP

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	ND	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	1.82	J	0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	10.0	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
A Prep Factor other than 1 accounts for a non-routine sample size.
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Florida Dept. of Health (NELAC) - E87595
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: TP-PZ-02 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2069133 **Sample Qu:**

Lab ID: 20518720 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 85536

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 05/02/07 **Received:** 05/03/07

Prep Factor: 1 **Prepared:** 05/04/07 **Analyzed:** 05/04/07 21:01 RMP

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: TP-PZ-02 | **Site:** None

Project: MS BLUFFS/LA002656.0001 | **Project No.:** 2069133 | **Sample Qu:**

Lab ID: 20518720 | **Matrix:** Water | **% Moisture:** n/a

Description: None | **Prep Level:** Water | **Batch:** 85536

Method: 8260 VOAs Water | **Units:** ug/L | **Target List:** 8260_WL20

Collected: 05/02/07 | **Received:** 05/03/07

Prep Factor: 1 | **Prepared:** 05/04/07 | **Analyzed:** 05/04/07 21:01 RMP

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	ND	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	10.0	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: TP-PZ-03 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2069133 **Sample Qu:**

Lab ID: 20518721 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 85536

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 05/01/07 **Received:** 05/03/07

Prep Factor: 1 **Prepared:** 05/04/07 **Analyzed:** 05/04/07 21:23 RMP

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: TP-PZ-03 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2069133 **Sample Qu:**

Lab ID: 20518721 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 85536

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 05/01/07 **Received:** 05/03/07

Prep Factor: 1 **Prepared:** 05/04/07 **Analyzed:** 05/04/07 21:23 RMP

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	ND	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	1.86	J	0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	10.0	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: TP-PZ-05 | **Site:** None

Project: MS BLUFFS/LA002656.0001 | **Project No.:** 2069133 | **Sample Qu:**

Lab ID: 20518722 | **Matrix:** Water | **% Moisture:** n/a

Description: None | **Prep Level:** Water | **Batch:** 85536

Method: 8260 VOAs Water | **Units:** ug/L | **Target List:** 8260_WL20

Collected: 05/01/07 | **Received:** 05/03/07

Prep Factor: 1 | **Prepared:** 05/04/07 | **Analyzed:** 05/04/07 21:45 RMP

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	23.4	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	69.7	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: TP-PZ-05 | **Site:** None

Project: MS BLUFFS/LA002656.0001 | **Project No.:** 2069133 | **Sample Qu:**

Lab ID: 20518722 | **Matrix:** Water | **% Moisture:** n/a

Description: None | **Prep Level:** Water | **Batch:** 85536

Method: 8260 VOAs Water | **Units:** ug/L | **Target List:** 8260_WL20

Collected: 05/01/07 | **Received:** 05/03/07

Prep Factor: 1 | **Prepared:** 05/04/07 | **Analyzed:** 05/04/07 21:45 RMP

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	ND	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	1.27	J	0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	10.0	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

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1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: TP-PZ-06 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2069133 **Sample Qu:**

Lab ID: 20518723 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 85536

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 05/01/07 **Received:** 05/03/07

Prep Factor: 1 **Prepared:** 05/04/07 **Analyzed:** 05/04/07 22:07 RMP

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	34.4	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	0.960 J		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	0.660 J		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	10.7		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	100	25200	D1	21.2	500.	
75-35-4	1,1-Dichloroethene	1	0.890 J		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	4.66 J		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: TP-PZ-06 | **Site:** None

Project: MS BLUFFS/LA002656.0001 | **Project No.:** 2069133 | **Sample Qu:**

Lab ID: 20518723 | **Matrix:** Water | **% Moisture:** n/a

Description: None | **Prep Level:** Water | **Batch:** 85536

Method: 8260 VOAs Water | **Units:** ug/L | **Target List:** 8260_WL20

Collected: 05/01/07 | **Received:** 05/03/07

Prep Factor: 1 | **Prepared:** 05/04/07 | **Analyzed:** 05/04/07 22:07 RMP

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	1.61	J A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	1.80	J	0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	7.32		0.328	5.00	
79-01-6	Trichloroethene	1	35.3		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	3.87	J	0.463	5.00	
	m&p-Xylene	1	ND		0.151	10.0	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: TP-PZ-07 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2069133 **Sample Qu:**

Lab ID: 20518724 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 85536

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 05/01/07 **Received:** 05/03/07

Prep Factor: 1 **Prepared:** 05/07/07 **Analyzed:** 05/07/07 19:13 RMP

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: TP-PZ-07 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2069133 **Sample Qu:**

Lab ID: 20518724 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 85536

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 05/01/07 **Received:** 05/03/07

Prep Factor: 1 **Prepared:** 05/07/07 **Analyzed:** 05/07/07 19:13 RMP

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	ND	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	10.0	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: TB050207 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2069133 **Sample Qu:**

Lab ID: 20518725 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 85536

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 05/01/07 **Received:** 05/03/07

Prep Factor: 1 **Prepared:** 05/04/07 **Analyzed:** 05/04/07 22:52 RMP

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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Client: Arcadis Geraghty & Miller

Client ID: TB050207 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2069133 **Sample Qu:**

Lab ID: 20518725 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 85536

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 05/01/07 **Received:** 05/03/07

Prep Factor: 1 **Prepared:** 05/04/07 **Analyzed:** 05/04/07 22:52 RMP

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	ND	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	1.59	J	0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	10.0	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: TP-PZ-01 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2069133 **Sample Qu:**

Lab ID: 20518719 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 85565

Method: 8081 Pests Water **Units:** ug/L **Target List:** 8081_WL20

Collected: 05/01/07 **Received:** 05/03/07

Prep Factor: 1 **Prepared:** 05/07/07 **Analyzed:** 05/16/07 19:57 SLF

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		2.00	2.00	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: TP-PZ-01 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2069133 **Sample Qu:**

Lab ID: 20518719 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 85356

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 05/01/07 **Received:** 05/03/07

Prep Factor: 1 **Prepared:** 05/04/07 **Analyzed:** 05/13/07 15:21 SRA

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND		0.224	2.00	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: TP-PZ-02 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2069133 **Sample Qu:**

Lab ID: 20518720 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 85565

Method: 8081 Pests Water **Units:** ug/L **Target List:** 8081_WL20

Collected: 05/02/07 **Received:** 05/03/07

Prep Factor: 1 **Prepared:** 05/07/07 **Analyzed:** 05/16/07 21:52 SLF

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		2.00	2.00	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: TP-PZ-02 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2069133 **Sample Qu:**

Lab ID: 20518720 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 85356

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 05/02/07 **Received:** 05/03/07

Prep Factor: 1 **Prepared:** 05/04/07 **Analyzed:** 05/13/07 19:29 SRA

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND		0.224	2.00	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: TP-PZ-03 | **Site:** None

Project: MS BLUFFS/LA002656.0001 | **Project No.:** 2069133 | **Sample Qu:**

Lab ID: 20518721 | **Matrix:** Water | **% Moisture:** n/a

Description: None | **Prep Level:** Water | **Batch:** 85565

Method: 8081 Pests Water | **Units:** ug/L | **Target List:** 8081_WL20

Collected: 05/01/07 | **Received:** 05/03/07

Prep Factor: 1 | **Prepared:** 05/07/07 | **Analyzed:** 05/16/07 20:47 SLF

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		2.00	2.00	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: TP-PZ-03 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2069133 **Sample Qu:**

Lab ID: 20518721 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 85356

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 05/01/07 **Received:** 05/03/07

Prep Factor: 1 **Prepared:** 05/04/07 **Analyzed:** 05/16/07 21:49 SRA

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	2	8.83	D1	0.447	4.00	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: TP-PZ-05 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2069133 **Sample Qu:**

Lab ID: 20518722 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 85565

Method: 8081 Pests Water **Units:** ug/L **Target List:** 8081_WL20

Collected: 05/01/07 **Received:** 05/03/07

Prep Factor: 1 **Prepared:** 05/07/07 **Analyzed:** 05/16/07 21:03 SLF

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		2.00	2.00	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: TP-PZ-05 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2069133 **Sample Qu:**

Lab ID: 20518722 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 85356

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 05/01/07 **Received:** 05/03/07

Prep Factor: 1 **Prepared:** 05/04/07 **Analyzed:** 05/13/07 18:06 SRA

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND		0.224	2.00	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: TP-PZ-06 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2069133 **Sample Qu:**

Lab ID: 20518723 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 85565

Method: 8081 Pests Water **Units:** ug/L **Target List:** 8081_WL20

Collected: 05/01/07 **Received:** 05/03/07

Prep Factor: 1 **Prepared:** 05/07/07 **Analyzed:** 05/17/07 17:48 SLF

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	100	ND	D2	200.	200.	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: TP-PZ-06 | **Site:** None

Project: MS BLUFFS/LA002656.0001 | **Project No.:** 2069133 | **Sample Qu:**

Lab ID: 20518723 | **Matrix:** Water | **% Moisture:** n/a

Description: None | **Prep Level:** Water | **Batch:** 85356

Method: 8151 Herbs Water | **Units:** ug/L | **Target List:** 8151_WL20

Collected: 05/01/07 | **Received:** 05/03/07

Prep Factor: 1 | **Prepared:** 05/04/07 | **Analyzed:** 05/16/07 22:17 SRA

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	2000	14000	D1	447.	4000	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: TP-PZ-07
Site: None
Project: MS BLUFFS/LA002656.0001
Project No.: 2069133
Sample Qu:
Lab ID: 20518724
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 85565
Method: 8081 Pests Water
Units: ug/L
Target List: 8081_WL20
Collected: 05/01/07
Received: 05/03/07
Prep Factor: 1
Prepared: 05/07/07
Analyzed: 05/16/07 21:36 SLF

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		2.00	2.00	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: TP-PZ-07 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2069133 **Sample Qu:**

Lab ID: 20518724 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 85356

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 05/01/07 **Received:** 05/03/07

Prep Factor: 1 **Prepared:** 05/04/07 **Analyzed:** 05/13/07 19:01 SRA

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND		0.224	2.00	

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Client ID: TP-PZ-01
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001
Site: None
Lab ID: 20518719
Project No.: 2069133
Description: None
Matrix: Water
%Moisture: n/a
Collected: 05/01/07
Received: 05/03/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	85651	1	ND		ug/L	6.05	10.0	05/08	05/14 16:41	KJR	
Arsenic, Dissolved	EPA 6010	85821	1	ND		ug/L	5.12	10.0	05/11	05/16 21:05	KJR	

2 parameter(s) reported

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ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
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Kansas Dept. of Health Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270
Pennsylvania DEP (NELAC) 68-04202

Report of Laboratory Analysis

Pace Analytical New Orleans Laboratory

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: TP-PZ-02
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001
Site: None
Lab ID: 20518720
Project No.: 2069133
Description: None
Matrix: Water
%Moisture: n/a
Collected: 05/02/07
Received: 05/03/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	85651	1	45.0		ug/L	6.05	10.0	05/08	05/14 17:16	KJR	
Arsenic, Dissolved	EPA 6010	85821	1	ND		ug/L	5.12	10.0	05/11	05/16 21:39	KJR	

2 parameter(s) reported

5/18/2007 17:47:40

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
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Client ID: TP-PZ-03
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001
Site: None
Lab ID: 20518721
Project No.: 2069133
Description: None
Matrix: Water **%Moisture:** n/a
Collected: 05/01/07 **Received:** 05/03/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	85651	1	ND		ug/L	6.05	10.0	05/08	05/14 16:46	KJR	
Arsenic, Dissolved	EPA 6010	85821	1	ND		ug/L	5.12	10.0	05/11	05/16 21:10	KJR	

2 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
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Client ID: TP-PZ-05
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001
Site: None
Lab ID: 20518722
Project No.: 2069133
Description: None
Matrix: Water
%Moisture: n/a
Collected: 05/01/07
Received: 05/03/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	85651	1	59.6		ug/L	6.05	10.0	05/08	05/14 17:01	KJR	
Arsenic, Dissolved	EPA 6010	85821	1	ND		ug/L	5.12	10.0	05/11	05/16 21:15	KJR	

2 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
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For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
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Client ID: TP-PZ-06
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001
Site: None
Lab ID: 20518723
Project No.: 2069133
Description: None
Matrix: Water
%Moisture: n/a
Collected: 05/01/07
Received: 05/03/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	85651	1	ND		ug/L	6.05	10.0	05/08	05/14 17:06	KJR	
Arsenic, Dissolved	EPA 6010	85821	1	ND		ug/L	5.12	10.0	05/11	05/16 21:19	KJR	

2 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
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Client ID: TP-PZ-07
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001
Site: None
Lab ID: 20518724
Project No.: 2069133
Description: None
Matrix: Water
%Moisture: n/a
Collected: 05/01/07
Received: 05/03/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	85651	1	52.9		ug/L	6.05	10.0	05/08	05/14 17:11	KJR	
Arsenic, Dissolved	EPA 6010	85821	1	ND		ug/L	5.12	10.0	05/11	05/16 21:34	KJR	

2 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
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Report of Quality Control

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Method: EPA 8260 **Project:** 2069133 **LCS:** 20518992 5/4/2007 6:26:00 PM

Batch: 85536 **MS:** 20518993 5/4/2007 8:16:00 PM

Units: ug/L **Original for MS:** 20518719 Client Sample

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Acetone	50	62.26	125	50	0.00	70.43	76.14	141	152	8	22 - 165	11 - 171	20	A11
Acetonitrile	550	799.4	145	550	0.00	852.5	869.5	155	158	2	15 - 171	10 - 182	20	
Acrolein	100	139.2	139	100	0.00	136.9	139.5	137	140	2	10 - 150	10 - 150	20	
Acrylonitrile	150	185.7	124	150	0.00	196	203.5	131	136	4	10 - 150	10 - 150	20	
Allyl chloride	100	104.7	105	100	0.00	106	105.5	106	106	0	30 - 155	34 - 153	20	
Benzene	50	48.47	97	50	0.00	49.63	49.23	99	99	1	70 - 135	60 - 144	20	
Bromodichloromethane	50	52.09	104	50	0.00	53.38	52.29	107	105	2	61 - 156	59 - 156	20	
Bromoform	50	58.96	118	50	0.00	59.45	61.88	119	124	4	56 - 154	50 - 153	20	
Bromomethane	50	46.59	93	50	0.00	47.27	46.79	95	94	1	44 - 158	37 - 165	20	
2-Butanone (MEK)	50	63.94	128	50	0.00	75.78	72.98	152	146	4	32 - 157	20 - 168	20	A11
Carbon disulfide	50	43.03	86	50	0.00	43.5	44.11	87	88	1	40 - 147	36 - 152	20	
Carbon tetrachloride	50	41.04	82	50	0.00	43.63	43.39	87	87	1	50 - 166	44 - 170	20	
Chlorobenzene	50	49.37	99	50	0.00	49.54	49.79	99	100	1	73 - 129	67 - 134	20	
Chloroethane	50	48.16	96	50	0.00	42.92	44.86	86	90	4	38 - 163	34 - 170	20	
Chloroform	50	54.09	108	50	0.00	54.45	54.47	109	109	0	71 - 133	64 - 140	20	
Chloromethane	50	53.74	107	50	0.00	51.47	51.32	103	103	0	32 - 149	22 - 163	20	
Chloroprene	50	50.03	100	50	0.00	51.76	51.58	104	103	0	50 - 141	51 - 134	20	
1,2-Dibromo-3-chloropropa	50	63.55	127	50	0.00	60.48	64.78	121	130	7	34 - 145	28 - 150	20	
Dibromochloromethane	50	54.56	109	50	0.00	55.02	56.13	110	112	2	63 - 147	58 - 147	20	
1,2-Dibromoethane (EDB)	50	62.63	125	50	0.00	63.32	64.03	127	128	1	60 - 147	55 - 149	20	
Dibromomethane	50	57.17	114	50	0.00	58.8	58.83	118	118	0	60 - 147	56 - 148	20	
trans-1,4-Dichloro-2-butene	100	113.3	113	100	0.00	124.1	125.8	124	126	1	17 - 178	21 - 164	20	
1,1-Dichloroethane	50	53.44	107	50	0.00	53.18	53.74	106	108	1	64 - 135	59 - 142	20	
1,2-Dichloroethane	50	58.7	117	50	0.00	60.76	60.4	122	121	1	53 - 164	51 - 161	20	
1,1-Dichloroethene	50	54.59	109	50	0.00	54.95	55.72	110	111	1	51 - 143	44 - 152	20	
trans-1,2-Dichloroethene	50	51.83	104	50	0.00	52.48	52	105	104	1	59 - 139	56 - 145	20	
1,2-Dichloropropane	50	51.25	103	50	0.00	51.96	51.54	104	103	1	69 - 135	66 - 138	20	
cis-1,3-Dichloropropene	50	58.07	116	50	0.00	58.75	58.4	118	117	1	66 - 141	58 - 142	20	
trans-1,3-Dichloropropene	50	60.7	121	50	0.00	61.82	61.5	124	123	1	57 - 150	50 - 151	20	
1,4-Dioxane (p-Dioxane)	1050	1487	142	1050	0.00	1584	1580	151	151	0	17 - 176	19 - 172	20	
Ethylbenzene	50	47.27	95	50	0.00	46.57	46.49	93	93	0	67 - 132	58 - 138	20	
Ethyl methacrylate	100	112.6	113	100	0.00	117.6	113.9	118	114	3	57 - 143	45 - 170	20	
2-Hexanone	50	60.02	120	50	0.00	67.61	66.6	135	133	2	36 - 154	25 - 163	20	
Iodomethane	50	51.74	103	50	0.00	52.04	52.49	104	105	1	43 - 159	36 - 160	20	
Isobutanol	1050	1408	134	1050	0.00	1437	1473	137	140	2	32 - 160	26 - 169	20	
Methacrylonitrile	550	730.2	133	550	0.00	757.8	768.6	138	140	1	10 - 171	10 - 167	20	
Methylene chloride	50	51.99	104	50	0.00	51.29	51.27	103	103	0	29 - 159	19 - 158	20	A11
Methyl methacrylate	100	120.2	120	100	0.00	125.8	124.1	126	124	1	52 - 167	11 - 212	20	
4-Methyl-2-pentanone (MI	50	62.87	126	50	0.00	66.71	68.84	133	138	3	13 - 162	10 - 157	20	

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* denotes recovery outside of QC limits.

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Method: EPA 8260 **Project:** 2069133 **LCS:** 20518992 5/4/2007 6:26:00 PM

Batch: 85536 **MS:** 20518993 5/4/2007 8:16:00 PM

Units: ug/L **Original for MS:** 20518719 Client Sample

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Propionitrile	550	789.1	143	550	0.00	833.8	856.4	152	156	3	23 - 159	25 - 158	20	
Styrene	50	54.97	110	50	0.00	54.77	55.08	110	110	1	71 - 134	54 - 144	20	
1,1,1,2-Tetrachloroethane	50	48	96	50	0.00	47.34	47.38	95	95	0	73 - 146	65 - 150	20	
1,1,2,2-Tetrachloroethane	50	63.15	126	50	0.00	65.76	67.67	132	135	3	50 - 142	46 - 145	20	
Tetrachloroethene	50	46.72	93	50	0.00	47.16	46.3	94	93	2	42 - 156	39 - 151	20	
Toluene	50	47.63	95	50	1.82	50.43	49.88	97	96	1	72 - 132	64 - 139	20	
1,1,1-Trichloroethane	50	44.12	88	50	0.00	46.35	46.06	93	92	1	65 - 136	59 - 141	20	
1,1,2-Trichloroethane	50	56.74	113	50	0.00	56.61	56.43	113	113	0	67 - 144	60 - 146	20	
Trichloroethene	50	47.02	94	50	0.00	48.87	48.36	98	97	1	69 - 136	61 - 141	20	
Trichlorofluoromethane	50	54.81	110	50	0.00	26.83	29.61	54	59	10	42 - 161	38 - 160	20	
1,2,3-Trichloropropane	50	65.4	131	50	0.00	71.21	73.03	142	146	3	52 - 152	51 - 151	20	
1,2,4-Trimethylbenzene	50	44.66	89	50	0.00	46.79	46.3	94	93	1	59 - 137	41 - 155	20	
1,3,5-Trimethylbenzene	50	44.58	89	50	0.00	46.82	46.04	94	92	2	69 - 135	55 - 150	20	
Vinyl acetate	50	129.5	259 *	50	0.00	123.8	124.3	248 *	249 *	0	21 - 190	10 - 185	20	Q10
Vinyl chloride	50	48.78	98	50	0.00	47.65	47.52	95	95	0	40 - 146	28 - 161	20	
m&p-Xylene	100	93.6	94	100	0.00	92.7	92.39	93	92	0	70 - 129	66 - 132	20	
o-Xylene	50	48.45	97	50	0.00	47.19	47.05	94	94	0	70 - 129	66 - 132	20	

56 compound(s) reported

* denotes recovery outside of QC limits.

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

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Phone: 504.469.0333
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LELAP # 02006

Method: EPA 8260 **Project:** 2069133 **LCS:** 20519275 5/7/2007 4:38:00 PM

Batch: 85536 **MS:**

Units: ug/L **Original for MS:**

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Acetone	50	66.64	133								22 - 165	-		A11
Acetonitrile	550	801.1	146								15 - 171	-		
Acrolein	100	135.6	136								10 - 150	-		
Acrylonitrile	150	181	121								10 - 150	-		
Allyl chloride	100	100.8	101								30 - 155	-		
Benzene	50	47.85	96								70 - 135	-		
Bromodichloromethane	50	51.61	103								61 - 156	-		
Bromoform	50	58.71	117								56 - 154	-		
Bromomethane	50	45.08	90								44 - 158	-		
2-Butanone (MEK)	50	70.32	141								32 - 157	-		A11
Carbon disulfide	50	40.52	81								40 - 147	-		
Carbon tetrachloride	50	41.38	83								50 - 166	-		
Chlorobenzene	50	48.49	97								73 - 129	-		
Chloroethane	50	45.76	92								38 - 163	-		
Chloroform	50	51.82	104								71 - 133	-		
Chloromethane	50	49.74	100								32 - 149	-		
Chloroprene	50	48.54	97								50 - 141	-		
1,2-Dibromo-3-chloropropa	50	59.19	118								34 - 145	-		
Dibromochloromethane	50	53.9	108								63 - 147	-		
1,2-Dibromoethane (EDB)	50	61.72	123								60 - 147	-		
Dibromomethane	50	57.92	116								60 - 147	-		
trans-1,4-Dichloro-2-butene	100	118.3	118								17 - 178	-		
1,1-Dichloroethane	50	50.58	101								64 - 135	-		
1,2-Dichloroethane	50	59.65	119								53 - 164	-		
1,1-Dichloroethene	50	51.64	103								51 - 143	-		
trans-1,2-Dichloroethene	50	48.5	97								59 - 139	-		
1,2-Dichloropropane	50	50.66	101								69 - 135	-		
cis-1,3-Dichloropropene	50	57.18	114								66 - 141	-		
trans-1,3-Dichloropropene	50	59.51	119								57 - 150	-		
1,4-Dioxane (p-Dioxane)	1050	1548	147								17 - 176	-		
Ethylbenzene	50	45.25	91								67 - 132	-		
Ethyl methacrylate	100	112	112								57 - 143	-		
2-Hexanone	50	62.15	124								36 - 154	-		
Iodomethane	50	49.35	99								43 - 159	-		
Isobutanol	1050	1373	131								32 - 160	-		
Methacrylonitrile	550	714	130								10 - 171	-		
Methylene chloride	50	47.13	94								29 - 159	-		A11
Methyl methacrylate	100	119.2	119								52 - 167	-		
4-Methyl-2-pentanone (MI	50	66.99	134								13 - 162	-		

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Pace Analytical
New Orleans Laboratory

Report of Quality Control

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Method: EPA 8260 **Project:** 2069133 **LCS:** 20519275 5/7/2007 4:38:00 PM

Batch: 85536 **MS:**

Units: ug/L **Original for MS:**

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Propionitrile	550	802.3	146								23 - 159	-		
Styrene	50	53.37	107								71 - 134	-		
1,1,1,2-Tetrachloroethane	50	46.52	93								73 - 146	-		
1,1,2,2-Tetrachloroethane	50	61.34	123								50 - 142	-		
Tetrachloroethene	50	47.4	95								42 - 156	-		
Toluene	50	46.11	92								72 - 132	-		
1,1,1-Trichloroethane	50	44.75	90								65 - 136	-		
1,1,2-Trichloroethane	50	55.56	111								67 - 144	-		
Trichloroethene	50	47.19	94								69 - 136	-		
Trichlorofluoromethane	50	32.34	65								42 - 161	-		
1,2,3-Trichloropropane	50	66.22	132								52 - 152	-		
1,2,4-Trimethylbenzene	50	43.26	87								59 - 137	-		
1,3,5-Trimethylbenzene	50	42.77	86								69 - 135	-		
Vinyl acetate	50	123.1	246 *								21 - 190	-		Q10
Vinyl chloride	50	44.42	89								40 - 146	-		
m&p-Xylene	100	90.57	91								70 - 129	-		
o-Xylene	50	46.37	93								70 - 129	-		

56 compound(s) reported

* denotes recovery outside of QC limits.

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

5/18/2007 17:47:44

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Report of Batch Surrogate Recovery

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Phone: 504.469.0333
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LELAP # 02006

Report: 2069133 **Batch: 85536**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20518719	Sample	116	116	96					
20518720	Sample S1	118	125 *	97					
20518721	Sample S1	117	125 *	95					
20518722	Sample	117	122	97					
20518723	Sample D1	125	124	97					
20518724	Sample	110	122	100					
20518725	Sample S1	128	125 *	95					
20518991	BLANK	119	114	97					
20518992	LCS	102	119	101					
20518993	MS	107	119	101					
20518994	MSD	106	120	100					
20519274	BLANK S1	112	126 *	101					
20519275	LCS	100	124	105					
20519523	BLANK	109	111	98					
20519524	LCS	97	114	107					
QC limits:		71-129	68-124	74-122					

Sur 1: 4-Bromofluorobenzene (S)
Sur 2: Dibromofluoromethane (S)
Sur 3: Toluene-d8 (S)

*** denotes surrogate recovery outside of QC limits.**
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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Phone: 504.469.0333
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LELAP # 02006

Lab ID: 20518991
Description: 8260 VOAs Full List Water BLK **Project No.:** 2069133
Method: EPA 8260 **Batch:** 85536 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 04-May-07 **Analyzed:** 05/04/07 18:04 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
67-64-1	Acetone	1	ND	A11	10.0
75-05-8	Acetonitrile	1	ND		100.
107-02-8	Acrolein	1	ND		20.0
107-13-1	Acrylonitrile	1	ND		20.0
107-05-1	Allyl chloride	1	ND		10.0
71-43-2	Benzene	1	ND		5.00
75-27-4	Bromodichloromethane	1	ND		5.00
75-25-2	Bromoform	1	ND		5.00
74-83-9	Bromomethane	1	ND		5.00
71-36-3	n-Butanol	1	ND		200.
78-93-3	2-Butanone (MEK)	1	ND	A11	10.0
15892-23-6	sec-Butyl alcohol	1	ND		200.
75-15-0	Carbon disulfide	1	ND		5.00
56-23-5	Carbon tetrachloride	1	ND		5.00
108-90-7	Chlorobenzene	1	ND		5.00
75-00-3	Chloroethane	1	ND		5.00
67-66-3	Chloroform	1	ND		5.00
74-87-3	Chloromethane	1	ND		5.00
126-99-8	Chloroprene	1	ND		5.00
110-82-7	Cyclohexane	1	ND		5.00
108-94-1	Cyclohexanone	1	ND		100.
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.00
124-48-1	Dibromochloromethane	1	ND		5.00
106-93-4	1,2-Dibromoethane (EDB)	1	ND		5.00
74-95-3	Dibromomethane	1	ND		5.00
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		5.00
75-71-8	Dichlorodifluoromethane	1	ND		5.00
75-34-3	1,1-Dichloroethane	1	ND		5.00
107-06-2	1,2-Dichloroethane	1	ND		5.00
75-35-4	1,1-Dichloroethene	1	ND		5.00
156-59-2	cis-1,2-Dichloroethene	1	ND		5.00
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00
78-87-5	1,2-Dichloropropane	1	ND		5.00
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		250.

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ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20518991

Description: 8260 VOAs Full List Water BLK **Project No.:** 2069133

Method: EPA 8260 **Batch:** 85536 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 04-May-07 **Analyzed:** 05/04/07 18:04 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
100-41-4	Ethylbenzene	1	ND		5.00
97-63-2	Ethyl methacrylate	1	ND		10.0
110-54-3	n-Hexane	1	ND		5.00
591-78-6	2-Hexanone	1	ND		10.0
74-88-4	Iodomethane	1	ND		5.00
78-83-1	Isobutanol	1	ND		250.
98-82-8	Isopropylbenzene (Cumene)	1	ND		5.00
126-98-7	Methacrylonitrile	1	ND		100.
75-09-2	Methylene chloride	1	ND	A11	5.00
80-62-6	Methyl methacrylate	1	ND		10.0
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0
75-65-0	2-Methyl-2-propanol	1	ND		200.
107-12-0	Propionitrile	1	ND		20.0
100-42-5	Styrene	1	ND		5.00
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.00
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00
127-18-4	Tetrachloroethene	1	ND		5.00
108-88-3	Toluene	1	ND		5.00
71-55-6	1,1,1-Trichloroethane	1	ND		5.00
79-00-5	1,1,2-Trichloroethane	1	ND		5.00
79-01-6	Trichloroethene	1	ND		5.00
75-69-4	Trichlorofluoromethane	1	ND		5.00
96-18-4	1,2,3-Trichloropropane	1	ND		5.00
76-13-1	1,1,2-Trichlorotrifluoroethane	1	ND		5.00
95-63-6	1,2,4-Trimethylbenzene	1	ND		5.00
108-67-8	1,3,5-Trimethylbenzene	1	ND		5.00
108-05-4	Vinyl acetate	1	ND		10.0
75-01-4	Vinyl chloride	1	ND		5.00
	m&p-Xylene	1	ND		10.0
95-47-6	o-Xylene	1	ND		5.00

66 compound(s) reported

5/18/2007 17:47:50

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20519274
Description: 8260 VOAs Full List Water BLK **Project No.:** 2069133
Method: EPA 8260 **Batch:** 85536 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 07-May-07 **Analyzed:** 05/07/07 16:16 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
67-64-1	Acetone	1	ND	A11	10.0
75-05-8	Acetonitrile	1	ND		100.
107-02-8	Acrolein	1	ND		20.0
107-13-1	Acrylonitrile	1	ND		20.0
107-05-1	Allyl chloride	1	ND		10.0
71-43-2	Benzene	1	ND		5.00
75-27-4	Bromodichloromethane	1	ND		5.00
75-25-2	Bromoform	1	ND		5.00
74-83-9	Bromomethane	1	ND		5.00
71-36-3	n-Butanol	1	ND		200.
78-93-3	2-Butanone (MEK)	1	ND	A11	10.0
15892-23-6	sec-Butyl alcohol	1	ND		200.
75-15-0	Carbon disulfide	1	ND		5.00
56-23-5	Carbon tetrachloride	1	ND		5.00
108-90-7	Chlorobenzene	1	ND		5.00
75-00-3	Chloroethane	1	ND		5.00
67-66-3	Chloroform	1	ND		5.00
74-87-3	Chloromethane	1	ND		5.00
126-99-8	Chloroprene	1	ND		5.00
110-82-7	Cyclohexane	1	ND		5.00
108-94-1	Cyclohexanone	1	ND		100.
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.00
124-48-1	Dibromochloromethane	1	ND		5.00
106-93-4	1,2-Dibromoethane (EDB)	1	ND		5.00
74-95-3	Dibromomethane	1	ND		5.00
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		5.00
75-71-8	Dichlorodifluoromethane	1	ND		5.00
75-34-3	1,1-Dichloroethane	1	ND		5.00
107-06-2	1,2-Dichloroethane	1	ND		5.00
75-35-4	1,1-Dichloroethene	1	ND		5.00
156-59-2	cis-1,2-Dichloroethene	1	ND		5.00
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00
78-87-5	1,2-Dichloropropane	1	ND		5.00
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		250.

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LELAP # 02006

Lab ID: 20519274

Description: 8260 VOAs Full List Water BLK **Project No.:** 2069133

Method: EPA 8260 **Batch:** 85536 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 07-May-07 **Analyzed:** 05/07/07 16:16 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
100-41-4	Ethylbenzene	1	ND		5.00
97-63-2	Ethyl methacrylate	1	ND		10.0
110-54-3	n-Hexane	1	ND		5.00
591-78-6	2-Hexanone	1	ND		10.0
74-88-4	Iodomethane	1	ND		5.00
78-83-1	Isobutanol	1	ND		250.
98-82-8	Isopropylbenzene (Cumene)	1	ND		5.00
126-98-7	Methacrylonitrile	1	ND		100.
75-09-2	Methylene chloride	1	ND	A11	5.00
80-62-6	Methyl methacrylate	1	ND		10.0
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0
75-65-0	2-Methyl-2-propanol	1	ND		200.
107-12-0	Propionitrile	1	ND		20.0
100-42-5	Styrene	1	ND		5.00
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.00
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00
127-18-4	Tetrachloroethene	1	ND		5.00
108-88-3	Toluene	1	ND		5.00
71-55-6	1,1,1-Trichloroethane	1	ND		5.00
79-00-5	1,1,2-Trichloroethane	1	ND		5.00
79-01-6	Trichloroethene	1	ND		5.00
75-69-4	Trichlorofluoromethane	1	ND		5.00
96-18-4	1,2,3-Trichloropropane	1	ND		5.00
76-13-1	1,1,2-Trichlorotrifluoroethane	1	ND		5.00
95-63-6	1,2,4-Trimethylbenzene	1	ND		5.00
108-67-8	1,3,5-Trimethylbenzene	1	ND		5.00
108-05-4	Vinyl acetate	1	ND		10.0
75-01-4	Vinyl chloride	1	ND		5.00
	m&p-Xylene	1	ND		10.0
95-47-6	o-Xylene	1	ND		5.00

66 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
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Phone: 504.469.0333
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LELAP # 02006

Method: EPA 8151 **Project:** 2069133 **LCS:** 20518871 5/16/2007 8:27:00 PM

Batch: 85356 **MS:** 20518872 5/16/2007 8:54:00 PM

Units: ug/L **Original for MS:** 20518719 Client Sample

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Dinoseb	5	1.354	27	12.5	0.00	3.22	1.482	26	12	74 *	10 - 146	10 - 151	20	

1 compound(s) reported

* denotes recovery outside of QC limits.

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Report: 2069133 **Batch: 85356**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20517788	BLANK	82	82						
20517789	LCS	113	113						
20518719	Sample	12	25						
20518720	Sample	54	62						
20518721	Sample D1,G	53	279 D						
20518722	Sample	119	128						
20518723	Sample D1	0 D	0 D						
20518724	Sample G1	100	204 *						
20518870	BLANK	104	167						
20518871	LCS	97	152						
20518872	MS	120	106						
20518873	MSD	83	153						
20519385	BLANK	112	111						
20519386	LCS	104	103						
	QC limits:	10-181	10-181						

Sur 1: 2,4-DCPA (Conf)(S)
Sur 2: 2,4-DCPA (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Report: 2069133 **Batch: 85565**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20518719	Sample	63	65	50	46				
20518720	Sample	78	80	64	63				
20518721	Sample	46	47	30	31				
20518722	Sample	44	47	51	43				
20518723	Sample D1	0 D	0 D	0 D	0 D				
20518724	Sample	76	78	49	52				
20519163	BLANK	70	72	60	62				
20519164	LCS	72	74	58	61				
20519165	MS	58	59	42	43				
20519166	MSD	67	69	43	51				
QC limits:		10-157	10-157	18-171	18-171				

Sur 1: Decachlorobiphenyl (Conf)(S)
Sur 2: Decachlorobiphenyl (S)
Sur 3: Tetrachloro-m-xylene (Conf)(S)
Sur 4: Tetrachloro-m-xylene (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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Report of Method Blank

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20518870
Description: 8151 Herbs Water **Project No.:** 2069133
Method: EPA 8151 **Batch:** 85356 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 04-May-07 **Analyzed:** 05/13/07 14:26 SRA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
94-75-7	2,4-D	1	ND		2.00
127-20-8	Dalapon	1	ND		10.0
94-82-6	2,4-DB	1	ND		5.00
1918-00-9	Dicamba	1	ND		2.00
120-36-5	Dichloroprop	1	ND		2.00
88-85-7	Dinoseb	1	ND		2.00
94-74-6	MCPA	1	ND		250.
7085-19-0	MCPP	1	ND		250.
93-76-5	2,4,5-T	1	ND		2.00
93-72-1	2,4,5-TP (Silvex)	1	ND		2.00

10 compound(s) reported

5/18/2007 17:47:59

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270
Pennsylvania DEP (NELAC) 68-04202

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New Orleans Laboratory

Report of Method Blank

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20519163
Description: 8081 Pests Water **Project No.:** 2069133
Method: EPA 8081 **Batch:** 85565 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 07-May-07 **Analyzed:** 05/16/07 19:25 SLF

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
8001-35-2	Toxaphene	1	ND		2.00

1 compound(s) reported

5/18/2007 17:47:59

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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New Orleans Laboratory

Report of Quality Control

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2069133

Parameter	Batch	Blank	ARL	Units	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Arsenic	85651	ND	10.0	ug/L	1000	1016	102	1000	0.00	975.9	994.4	98	99	2		79 - 122	68 - 130	20	
Arsenic, Disso	85821	ND	10.0	ug/L	1000	963.8	96	1000	0.00	807.6	792.4	81	79	2		72 - 116	60 - 123	20	

* denotes recovery outside of QC limits.
ARL denotes Adjusted Reporting Limit, corrected for sample size, dilution and moisture content as applicable.
MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

5/18/2007 17:48:02

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

2069133

Page: of

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: ARCADIS	Report To: Craig Derouen	Attention: ARCADIS - Accounts Payable
Address: 10352 Plaza Americana Drive	Copy To: Jane Kennedy	Company Name: ARCADIS
Baton Rouge, Louisiana 70816		Address: 10352 Plaza Americana; Baton Rouge, LA 70819
Email To: Craig.Derouen@arcadis-us.com; Jane.Kennedy@arcadis-us.com	Purchase Order No.:	Pace Quote Reference:
Phone: (225) 292-1004 Fax: (225) 218-9677	Project Name: MS Bluffs (Vicksburg, MS)	Pace Project Manager: Cindy Olavesen 504-305-3626
Requested Due Date/TAT:	Project Number: LA002656.0001	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER MDEQ TRGs

SITE LOCATION: ☐ GA ☐ IL ☐ IN ☐ MI ☐ NC ☐ OH ☐ SC ☑ WI ☑ OTHER MS

Filtered (Y/N): N

Requested Analysis: 8260, 8270, 8081-TOXAPHENE, 8151-DINOSEB, ARSENIC, D-ARSENIC

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL WP; WIPE AR; AIR OT; OTHER TS; TISSUE

ITEM #	Section D Required Client Information SAMPLE ID One Character per box. (A-Z, 0-9 / ,-) Samples IDs MUST BE UNIQUE	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	8260	8270	8081-TOXAPHENE	8151-DINOSEB	ARSENIC	D-ARSENIC	Pace Project Number / Lab I.D.
1	TP-PZ-01	W	G	5/1					12									3	3	2	2	1	1	20518719
2	TP-PZ-02	W	G	5/2					12									3	3	2	2	1	1	720
3	TP-PZ-03	W	G	5/1					12									3	3	2	2	1	1	721
4	TP-PZ-04	W	G	5/2					0															
5	TP-PZ-05	W	G	5/1					12									3	3	2	2	1	1	722
6	TP-PZ-06	W	G	5/2					12									3	3	2	2	1	1	723
7	TP-PZ-07	W	G	5/1					12									3	3	2	2	1	1	724
8	TB050207	W							2									2						725
9																								
10																								
11																								
12																								

Additional Comments:

MDEQ Tier 1 TRG Detection Limits

filter diss Arsenic on receipt

le Coolers
2.9 to 5.0

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
John Trahan	5/2		Fed Ex		
Fed Ex			RBI Pace	5/3	1000

SAMPLE CONDITIONS

Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
	N	N	N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: John Trahan

SIGNATURE of SAMPLER: John Trahan

DATE Signed (MM / DD / YY): 5-2-07

ANALYTICAL DATA VALIDATION CHECKLIST **Former Vicksburg Chemical Company**

SDG NUMBER(s)	**2069133**	
Sample Date(s):	05/01/07	
Sample Team:	ARCADIS	
Sample Matrix:	Water	
Analyzing Laboratories:	Pace Analytical Services (New Orleans, Asheville, and Charlotte)	
Analyses: Project-Specific Compound Lists	**USEPA Methods:** 8260 Volatile Organic Compounds (VOCs)	8151 (Herbicides) 8081 (Pesticides) 6010 (Metals)
Report Content Level:	Contract Laboratory Program (CLP) type including raw data	

ARCADIS U.S., Inc.
3850 N. Causeway Blvd.
Suite 1600
Metairie, LA 70002
Tel. 504 832 4174
Fax 504 832 2145

ENVIRONMENT

Project Number:
LA002656.0001.00012

Review of field data, field notes, and sampling logs was conducted separately. Analytical data were evaluated in accordance with applicable U.S. Environmental Protection Agency (USEPA) method-specific criteria and/or laboratory Standard Operating Procedures (SOPs), *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (July 2002), *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review* (October 1999), *Quality Assurance Project Plan* (September 2006), the analytical laboratory Quality Assurance (QA) control limits, *Site Baseline Sampling Work Plan* (January 2007), and professional judgment.

This data verification was performed at a **Level 1** and included review of data package completeness, method blanks, holding time compliance, field duplicate precision, and field Quality Control (QC) sample evaluation. Only QA/QC results and analytical data associated with analytes/compounds of interest were reviewed for this validation.

The data package review included analytical results and associated QC data for all samples in the listed Sample Delivery Group(s) unless otherwise noted.

The following samples were included in this Validation:

SDG	Sample ID	Sample Type	Sample Collection Date	Parent Sample
2069133	TP-PZ-01	Water	05/02/07	
2069133	TP-PZ-02	Water	05/02/07	
2069133	TP-PZ-03	Water	05/02/07	
2069133	TP-PZ-05	Water	05/02/07	
2069133	TP-PZ-06	Water	05/02/07	
2069133	TP-PZ-07	Water	05/02/07	
2069133	TB050207	Water	05/02/07	

ANALYTICAL DATA PACKAGE DOCUMENTATION
GENERAL INFORMATION

Item Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt information		X		X	
2. Sample results		X		X	
3. Parameters analyzed		X		X	
4. Methods of analysis		X		X	
5. Reporting limits of analysis		X		X	
6. Master tracking list		X		X	
7. Sample collection date		X		X	
8. Laboratory sample received date		X		X	
9. Sample preservation		X		X	
10. Sample preparation/extraction date		X		X	
11. Sample analysis date		X		X	
12. Copy of Chain-of-Custody form signed by laboratory sample custodian		X		X	
13. Narrative summary of QA or sample problems provided		X		X	

QA - Quality Assurance

Comments:

All samples referenced in this report were analyzed by various divisions of Pace Analytical Services.

Performance was acceptable, with the following exceptions and/or notes:

5. The laboratory reported values between the Method Detection Limit (MDL) and the Reporting Limit (RL) as estimated.

VOLATILE ORGANIC COMPOUNDS

Item Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
1. Holding Times		X		X	
2. Reporting Limits		X		X	
3. Blanks					
A. Method Blanks		X		X	
B. Equipment Blanks/Rinsate Blanks	X				X
C. Field Blanks	X				X
D. Trip Blanks		X	X		
4. Field Duplicate Precision (RPD)	X				X
5. Narrative Notations of Potential Impact		X		X	

RPD - relative percent difference

Comments:

This section presents the review of USEPA Method 8260 Volatile Organic Compounds (VOCs). Performance was acceptable, with the following exceptions and/or notes:

Note: The Appendix IX compound list was reported.

3. Toluene was detected in the trip blank. The associated field samples are qualified as non-detect if the sample concentration is less than 5 times the blank value.

PESTICIDES AND HERBICIDES

Item Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
1. Holding Times		X		X	
2. Reporting Limits		X		X	
3. Blanks					
A. Method Blanks		X		X	
B. Equipment Blanks/Rinsate Blank	X				X
C. Field Blanks	X				X
4. Field Duplicate Precision (RPD)	X				X
5. Narrative Notations of Potential Impact		X		X	

RPD - relative percent difference

Comments:

The following section was reviewed and completed for USEPA Method 8151 (Herbicides) Dinoseb only and Method 8081 (Pesticides) Toxaphene only. Performance was acceptable, with the following exceptions and/or notes:

2. TP-PZ-03 was analyzed at a 2x dilution for Dinoseb and TP-PZ-06 was analyzed at 100x and 2,000x dilutions for Toxaphene due to elevated concentrations.

4. DUP-02(020707) was collected as a field duplicate of MW-1C(020707). The RPDs were acceptable.

METALS

Item Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
1. Holding Times		X		X	
2. Reporting Limits		X		X	
3. Blanks					
A. Method Blanks		X		X	
B. Equipment Blanks/Rinsate Blanks	X				X
C. Field Blanks	X				X
4. Field Duplicate Precision (RPD)	X				X
5. Narrative Notations of Potential Impact		X		X	

RPD - relative percent difference

Comments:

The following section was reviewed and completed for USEPA Method 6010 (Total and Dissolved Arsenic). Performance was acceptable, with no exceptions and/or notes.

VALIDATION QUALIFICATION SUMMARY

Data values presented in the following table were qualified due to QC deficiencies. The table indicates compounds/analytes qualified based on validation reviews conducted in accordance with the level of review referenced on page 1 of this checklist. Refer to the associated method section of the validation checklist for a detailed explanation of qualification. All other data are considered quantitative.

The following data qualifiers with applicable definitions were applied in this data validation:

UB - compound/analyte detected in blank or associated blank.

J - the analyte was positively identified, but the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - the analyte was not detected above the reporting limit; however, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

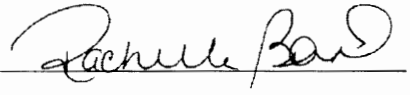
R - the sample result is rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria, and the presence or absence of the analyte cannot be verified.

All other data satisfy validation criteria and are considered to be quantitative.

Sample ID	Parameter	Result	Units	Qualifier	Reason
TP-PZ-01	Toluene	1.82	µg/L	UB	Blank Contamination
TP-PZ-03	Toluene	1.86	µg/L	UB	Blank Contamination
TP-PZ-05	Toluene	1.27	µg/L	UB	Blank Contamination

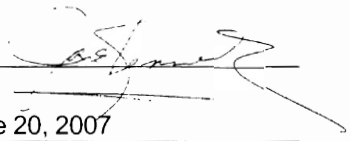
µg/L Micrograms per liter.

VALIDATION PERFORMED BY: Rachelle Borne

SIGNATURE: 

DATE: June 20, 2007

PEER REVIEW: Jane Kennedy

SIGNATURE: 

DATE: June 20, 2007

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New Orleans Laboratory

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

RECEIVED
MAY 2 9 2007
ARCADIS Geraghty & Miller

May 24, 2007

Craig Derouen
Arcadis Geraghty & Miller
10352 Plaza Americana Drive
Baton Rouge, LA 70816

RE: Project: 2069192
RE: Project ID: MS BLUFFS/LA002656.0001

Dear Craig Derouen:

Enclosed are the analytical results for sample(s) received by the laboratory on May 05, 2007. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Cindy Olavesen

Cindy Olavesen

ACCREDITED IN ACCORDANCE WITH nelac

REPORT OF LABORATORY ANALYSIS

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New Orleans Laboratory

Report of Laboratory Analysis

Project Number: 2069192

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5/24/2007 10:29:15

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Sample Cross Reference Report

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Project: MS BLUFFS/LA002656.0001

Project No.: 2069192

Sample ID	Lab ID	Matrix	Collection Date/Time	Received Date/Time
TP-PZ-04	20519235	Water	05/03/2007 09:39	05/05/2007
MW-6	20519269	Water	05/03/2007	05/05/2007 13:00
MW-4	20519270	Water	05/04/2007	05/05/2007 13:00
TB050407	20519271	Water	05/04/2007	05/05/2007 13:00

5/24/2007 10:29:18

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Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health .Environment - E-10266
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Pennsylvania DEP (NELAC) 68-04202

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Project Narrative

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: **2069192**

Sample Receipt Condition:

All samples were received in accordance with EPA protocol.

Holding Times:

All holding times were met.

Blanks:

All blank results were below reporting limits.

Laboratory Control Samples:

LCS recoveries outside of QC limits are qualified in the Report of Quality Control section.

Matrix Spikes and Duplicates:

MS or MSD recoveries outside of QC limits are qualified in the Report of Quality Control section.

Surrogates:

All surrogate recoveries were within QC limits.

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Project Narrative

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2069192

Analytical Method	Batch	Sample used for QC
EPA 8151	85356	Client sample TP-PZ-01 from project 2069133
EPA 8081	85565	Client sample TP-PZ-01 from project 2069133
EPA 6010	85651	Batch sample from another client
EPA 6010	85821	Batch sample from another client
EPA 8260	85658	Batch sample from another client

For the sample used as the original for the DUP or MS/MSD for the batch:

Project sample means a sample from this project was used.
Client sample means a sample from the same client but in a different project was used.
Batch sample means a sample from the a different client was used.

New Orleans Laboratory Certifications
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Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
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Pennsylvania DEP (NELAC) 68-04202

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New Orleans Laboratory

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: TP-PZ-04 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2069192 **Sample Qu:**

Lab ID: 20519235 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 85658

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 05/03/07 **Received:** 05/05/07

Prep Factor: 1 **Prepared:** 05/08/07 **Analyzed:** 05/08/07 17:36 RMP

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	33.5	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

ND denotes Not Detected at or above the adjusted reporting limit.
A Prep Factor other than 1 accounts for a non-routine sample size.
Reporting/Detection Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit denotes an actual regulatory limit or a client-requested notification limit.

5/24/2007 10:29:50

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health .Environment - E-10266
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Pennsylvania DEP (NELAC) 68-04202

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New Orleans Laboratory

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: TP-PZ-04 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2069192 **Sample Qu:**

Lab ID: 20519235 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 85658

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 05/03/07 **Received:** 05/05/07

Prep Factor: 1 **Prepared:** 05/08/07 **Analyzed:** 05/08/07 17:36 RMP

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	ND	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	10.0	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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5/24/2007 10:29:50

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-6 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2069192 **Sample Qu:**

Lab ID: 20519269 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 85658

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 05/03/07 **Received:** 05/05/07

Prep Factor: 1 **Prepared:** 05/09/07 **Analyzed:** 05/09/07 18:53 RMP

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-66-3	Chloroform	1	2.27	J	0.479	5.00	

1 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-4 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2069192 **Sample Qu:**

Lab ID: 20519270 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 85658

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 05/04/07 **Received:** 05/05/07

Prep Factor: 1 **Prepared:** 05/08/07 **Analyzed:** 05/08/07 17:14 RMP

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
75-09-2	Methylene chloride	1	ND	A11	0.710	5.00	

1 compound(s) reported

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Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: TB050407 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2069192 **Sample Qu:**

Lab ID: 20519271 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 85658

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 05/04/07 **Received:** 05/05/07

Prep Factor: 1 **Prepared:** 05/08/07 **Analyzed:** 05/08/07 16:51 RMP

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	5.90	10.0	
75-05-8	Acetonitrile	1	ND		12.5	100.	
107-02-8	Acrolein	1	ND		9.10	20.0	
107-13-1	Acrylonitrile	1	ND		4.90	20.0	
107-05-1	Allyl chloride	1	ND		1.56	10.0	
71-43-2	Benzene	1	ND		0.117	5.00	
75-27-4	Bromodichloromethane	1	ND		0.206	5.00	
75-25-2	Bromoform	1	ND		0.259	5.00	
74-83-9	Bromomethane	1	ND		1.94	5.00	
78-93-3	2-Butanone (MEK)	1	ND	A11	2.25	10.0	
75-15-0	Carbon disulfide	1	ND		0.257	5.00	
56-23-5	Carbon tetrachloride	1	ND		0.592	5.00	
108-90-7	Chlorobenzene	1	ND		0.119	5.00	
75-00-3	Chloroethane	1	ND		0.647	5.00	
67-66-3	Chloroform	1	ND		0.479	5.00	
74-87-3	Chloromethane	1	ND		0.305	5.00	
126-99-8	Chloroprene	1	ND		0.784	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		1.22	5.00	
124-48-1	Dibromochloromethane	1	ND		0.145	5.00	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		0.669	5.00	
74-95-3	Dibromomethane	1	ND		1.39	5.00	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		1.86	5.00	
75-71-8	Dichlorodifluoromethane	1	ND		0.818	5.00	
75-34-3	1,1-Dichloroethane	1	ND		0.515	5.00	
107-06-2	1,2-Dichloroethane	1	ND		0.212	5.00	
75-35-4	1,1-Dichloroethene	1	ND		0.493	5.00	
156-60-5	trans-1,2-Dichloroethene	1	ND		0.733	5.00	
78-87-5	1,2-Dichloropropane	1	ND		0.328	5.00	
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.0869	5.00	
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.216	5.00	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		16.8	250.	
100-41-4	Ethylbenzene	1	ND		0.119	5.00	
97-63-2	Ethyl methacrylate	1	ND		0.475	10.0	

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: TB050407 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2069192 **Sample Qu:**

Lab ID: 20519271 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 85658

Method: 8260 VOAs Water **Units:** ug/L **Target List:** 8260_WL20

Collected: 05/04/07 **Received:** 05/05/07

Prep Factor: 1 **Prepared:** 05/08/07 **Analyzed:** 05/08/07 16:51 RMP

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
591-78-6	2-Hexanone	1	ND		0.468	10.0	
74-88-4	Iodomethane	1	ND		0.621	5.00	
78-83-1	Isobutanol	1	ND		18.7	250.	
126-98-7	Methacrylonitrile	1	ND		16.2	100.	
75-09-2	Methylene chloride	1	ND	A11	0.710	5.00	
80-62-6	Methyl methacrylate	1	ND		0.997	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.872	10.0	
107-12-0	Propionitrile	1	ND		6.35	20.0	
100-42-5	Styrene	1	ND		0.0763	5.00	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.291	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.238	5.00	
127-18-4	Tetrachloroethene	1	ND		0.162	5.00	
108-88-3	Toluene	1	ND		0.131	5.00	
71-55-6	1,1,1-Trichloroethane	1	ND		0.609	5.00	
79-00-5	1,1,2-Trichloroethane	1	ND		0.328	5.00	
79-01-6	Trichloroethene	1	ND		0.168	5.00	
75-69-4	Trichlorofluoromethane	1	ND		1.57	5.00	
96-18-4	1,2,3-Trichloropropane	1	ND		1.49	5.00	
95-63-6	1,2,4-Trimethylbenzene	1	ND		0.0844	5.00	
108-67-8	1,3,5-Trimethylbenzene	1	ND		0.0614	5.00	
108-05-4	Vinyl acetate	1	ND		0.686	10.0	
75-01-4	Vinyl chloride	1	ND		0.463	5.00	
	m&p-Xylene	1	ND		0.151	10.0	
95-47-6	o-Xylene	1	ND		0.142	5.00	

57 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: TP-PZ-04 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2069192 **Sample Qu:**

Lab ID: 20519235 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 85565

Method: 8081 Pests Water **Units:** ug/L **Target List:** 8081_WL20

Collected: 05/03/07 **Received:** 05/05/07

Prep Factor: 1 **Prepared:** 05/10/07 **Analyzed:** 05/20/07 13:38 SLF

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		2.00	2.00	

1 compound(s) reported

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5/24/2007 10:29:54

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: TP-PZ-04 **Site:** None

Project: MS BLUFFS/LA002656.0001 **Project No.:** 2069192 **Sample Qu:**

Lab ID: 20519235 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 85356

Method: 8151 Herbs Water **Units:** ug/L **Target List:** 8151_WL20

Collected: 05/03/07 **Received:** 05/05/07

Prep Factor: 1 **Prepared:** 05/08/07 **Analyzed:** 05/16/07 23:39 SRA

CAS Number	Parameter	Dilution	Result	Qu	Adjusted MDL	Reporting Limit	Reg. Limit
88-85-7	Dinoseb	1	ND		0.224	2.00	

1 compound(s) reported

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Client ID: TP-PZ-04
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA002656.0001
Site: None
Lab ID: 20519235
Project No.: 2069192
Description: None
Matrix: Water **%Moisture:** n/a
Collected: 05/03/07 **Received:** 05/05/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Adjusted MDL	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	85651	1	46.5		ug/L	6.05	10.0	05/08	05/14 18:03	KJR	
Arsenic, Dissolved	EPA 6010	85821	1	7.48	J	ug/L	5.12	10.0	05/11	05/16 21:59	KJR	

2 parameter(s) reported

REPORT Footer3

Results not detected above the adjusted reporting limit.
PF other than 1 denotes sample Prep Factor which accounts for a non-routine sample size.
DF denotes Dilution Factor of final sample.
Reporting/Detection Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.

5/24/2007 10:29:57

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LELAP # 02006

Method: EPA 8260 **Project:** 2069192 **LCS:** 20519494 5/8/2007 12:00:00 PM

Batch: 85658 **MS:** 20519495 5/8/2007 2:16:00 PM

Units: ug/L **Original for MS:** 20519144 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Acetone	50	58.51	117	50	70.52	121.5	122.6	102	104	1	22 - 165	11 - 171	20	A11
Acetonitrile	550	694.9	126	550	1433.00	2144	2203	129	140	3	15 - 171	10 - 182	20	
Acrolein	100	124.8	125	100	0.00	73.39	72.01	73	72	2	10 - 150	10 - 150	20	
Acrylonitrile	150	160	107	150	20.97	182.4	185.4	108	110	2	10 - 150	10 - 150	20	
Allyl chloride	100	98.72	99	100	0.00	97.63	97.25	98	97	0	30 - 155	34 - 153	20	
Benzene	50	48.53	97	50	0.00	47.47	47.46	95	95	0	70 - 135	60 - 144	20	
Bromodichloromethane	50	50.89	102	50	0.00	49.77	50.27	100	101	1	61 - 156	59 - 156	20	
Bromoform	50	58.92	118	50	0.00	56.52	56.55	113	113	0	56 - 154	50 - 153	20	
Bromomethane	50	45.52	91	50	0.00	42.4	29.52	85	59	36 *	44 - 158	37 - 165	20	
2-Butanone (MEK)	50	57.94	116	50	24.76	81.05	85.61	113	122	5	32 - 157	20 - 168	20	A11
Carbon disulfide	50	43.54	87	50	2.90	43.18	42.63	81	80	1	40 - 147	36 - 152	20	
Carbon tetrachloride	50	45.09	90	50	0.00	42.83	42.06	86	84	2	50 - 166	44 - 170	20	
Chlorobenzene	50	49.27	99	50	0.00	48.92	48.43	98	97	1	73 - 129	67 - 134	20	
Chloroethane	50	52.41	105	50	0.00	41.98	43.55	84	87	4	38 - 163	34 - 170	20	
Chloroform	50	49.32	99	50	0.00	50.03	50.91	100	102	2	71 - 133	64 - 140	20	
Chloromethane	50	49.71	99	50	0.00	44.29	43.96	89	88	1	32 - 149	22 - 163	20	
Chloroprene	50	49.4	99	50	0.00	38.83	37.93	78	76	2	50 - 141	51 - 134	20	
1,2-Dibromo-3-chloropropa	50	58.03	116	50	0.00	55.84	60.04	112	120	7	34 - 145	28 - 150	20	
Dibromochloromethane	50	53.77	108	50	0.00	53.32	52.42	107	105	2	63 - 147	58 - 147	20	
1,2-Dibromoethane (EDB)	50	59.71	119	50	0.00	59.13	60.96	118	122	3	60 - 147	55 - 149	20	
Dibromomethane	50	55.12	110	50	0.00	54.45	55.18	109	110	1	60 - 147	56 - 148	20	
trans-1,4-Dichloro-2-butene	100	115.5	116	100	0.00	118.2	120.9	118	121	2	17 - 178	21 - 164	20	
1,1-Dichloroethane	50	48.9	98	50	0.00	48.98	48.75	98	98	0	64 - 135	59 - 142	20	
1,2-Dichloroethane	50	57.76	116	50	0.00	57.43	56.4	115	113	2	53 - 164	51 - 161	20	
1,1-Dichloroethene	50	54.64	109	50	0.00	51.77	50.3	104	101	3	51 - 143	44 - 152	20	
trans-1,2-Dichloroethene	50	48.69	97	50	0.00	48.68	48.6	97	97	0	59 - 139	56 - 145	20	
1,2-Dichloropropane	50	49.82	100	50	0.00	48.11	48.36	96	97	1	69 - 135	66 - 138	20	
cis-1,3-Dichloropropene	50	56.17	112	50	0.00	53.37	54.57	107	109	2	66 - 141	58 - 142	20	
trans-1,3-Dichloropropene	50	58.42	117	50	0.00	58.08	58.47	116	117	1	57 - 150	50 - 151	20	
1,4-Dioxane (p-Dioxane)	1050	1328	126	1050	0.00	1442	1482	137	141	3	17 - 176	19 - 172	20	
Ethylbenzene	50	48.37	97	50	0.00	46.29	45.77	93	92	1	67 - 132	58 - 138	20	
Ethyl methacrylate	100	105.9	106	100	0.00	109.2	114.3	109	114	5	57 - 143	45 - 170	20	
2-Hexanone	50	57.11	114	50	0.00	76.99	87.11	154	174 *	12	36 - 154	25 - 163	20	
Iodomethane	50	50.02	100	50	0.00	47.9	47.38	96	95	1	43 - 159	36 - 160	20	
Isobutanol	1050	1197	114	1050	0.00	1254	1305	119	124	4	32 - 160	26 - 169	20	
Methacrylonitrile	550	640.8	117	550	0.00	667.6	687.1	121	125	3	10 - 171	10 - 167	20	
Methylene chloride	50	44.47	89	50	0.00	43.85	44.44	88	89	1	29 - 159	19 - 158	20	A11
Methyl methacrylate	100	113.7	114	100	0.00	116.1	118.8	116	119	2	52 - 167	11 - 212	20	
4-Methyl-2-pentanone (MI	50	60.6	121	50	0.00	64.87	65.1	130	130	0	13 - 162	10 - 157	20	

5/24/2007 10:30:00

* denotes recovery outside of QC limits.

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

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Louisiana Dept. of Environmental Quality (LELAP) - 02006
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Pennsylvania DEP (NELAC) 68-04202

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New Orleans Laboratory

Report of Quality Control

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Method: EPA 8260 **Project:** 2069192 **LCS:** 20519494 5/8/2007 12:00:00 PM

Batch: 85658 **MS:** 20519495 5/8/2007 2:16:00 PM

Units: ug/L **Original for MS:** 20519144 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Propionitrile	550	692.5	126	550	0.00	756.1	778.5	138	142	3	23 - 159	25 - 158	20	
Styrene	50	54.55	109	50	0.00	52.98	52.76	106	106	0	71 - 134	54 - 144	20	
1,1,1,2-Tetrachloroethane	50	47.64	95	50	0.00	46.29	45.78	93	92	1	73 - 146	65 - 150	20	
1,1,2,2-Tetrachloroethane	50	60.67	121	50	0.00	61.11	59.96	122	120	2	50 - 142	46 - 145	20	
Tetrachloroethene	50	50.31	101	50	0.00	47.92	46.06	96	92	4	42 - 156	39 - 151	20	
Toluene	50	47.9	96	50	0.00	46.23	46.17	93	92	0	72 - 132	64 - 139	20	
1,1,1-Trichloroethane	50	46.41	93	50	0.00	44.41	44.19	89	88	0	65 - 136	59 - 141	20	
1,1,2-Trichloroethane	50	54.89	110	50	0.00	52.95	53.14	106	106	0	67 - 144	60 - 146	20	
Trichloroethene	50	48.24	97	50	0.00	46.99	47.27	94	95	1	69 - 136	61 - 141	20	
Trichlorofluoromethane	50	56.53	113	50	0.00	26.98	28.4	54	57	5	42 - 161	38 - 160	20	
1,2,3-Trichloropropane	50	65.23	130	50	0.00	67.1	65.09	134	130	3	52 - 152	51 - 151	20	
1,2,4-Trimethylbenzene	50	44.77	90	50	0.00	45.23	45.05	91	90	0	59 - 137	41 - 155	20	
1,3,5-Trimethylbenzene	50	45.04	90	50	0.00	45.03	44.55	90	89	1	69 - 135	55 - 150	20	
Vinyl acetate	50	109.3	219 *	50	0.00	112	115.1	224 *	230 *	3	21 - 190	10 - 185	20	Q10
Vinyl chloride	50	48.55	97	50	0.00	41.43	41.87	83	84	1	40 - 146	28 - 161	20	
m&p-Xylene	100	96.35	96	100	0.00	94.28	92.81	94	93	2	70 - 129	66 - 132	20	
o-Xylene	50	47.98	96	50	0.00	46.77	45.93	94	92	2	70 - 129	66 - 132	20	

56 compound(s) reported

* denotes recovery outside of QC limits.

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

5/24/2007 10:30:00

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Report of Quality Control

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Method: EPA 8260 **Project:** 2069192 **LCS:** 20519800 5/9/2007 6:31:00 PM

Batch: 85658 **MS:**

Units: ug/L **Original for MS:**

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Acetone	50	73.75	148								22 - 165	-		A11
Acetonitrile	550	862.1	157								15 - 171	-		
Acrolein	100	147.8	148								10 - 150	-		
Acrylonitrile	150	203.8	136								10 - 150	-		
Allyl chloride	100	99.8	100								30 - 155	-		
Benzene	50	47.78	96								70 - 135	-		
Bromodichloromethane	50	53.01	106								61 - 156	-		
Bromoform	50	52.44	105								56 - 154	-		
Bromomethane	50	43.3	87								44 - 158	-		
2-Butanone (MEK)	50	76.47	153								32 - 157	-		A11
Carbon disulfide	50	38.5	77								40 - 147	-		
Carbon tetrachloride	50	41.66	83								50 - 166	-		
Chlorobenzene	50	43.33	87								73 - 129	-		
Chloroethane	50	41.93	84								38 - 163	-		
Chloroform	50	52.73	105								71 - 133	-		
Chloromethane	50	45.97	92								32 - 149	-		
Chloroprene	50	48.36	97								50 - 141	-		
1,2-Dibromo-3-chloropropa	50	51.33	103								34 - 145	-		
Dibromochloromethane	50	49.47	99								63 - 147	-		
1,2-Dibromoethane (EDB)	50	65.77	132								60 - 147	-		
Dibromomethane	50	61.12	122								60 - 147	-		
trans-1,4-Dichloro-2-butene	100	101.9	102								17 - 178	-		
1,1-Dichloroethane	50	51.03	102								64 - 135	-		
1,2-Dichloroethane	50	64.48	129								53 - 164	-		
1,1-Dichloroethene	50	51.89	104								51 - 143	-		
trans-1,2-Dichloroethene	50	49.07	98								59 - 139	-		
1,2-Dichloropropane	50	50.74	101								69 - 135	-		
cis-1,3-Dichloropropene	50	57.19	114								66 - 141	-		
trans-1,3-Dichloropropene	50	60.76	122								57 - 150	-		
1,4-Dioxane (p-Dioxane)	1050	1673	159								17 - 176	-		
Ethylbenzene	50	40.07	80								67 - 132	-		
Ethyl methacrylate	100	113.4	113								57 - 143	-		
2-Hexanone	50	57.43	115								36 - 154	-		
Iodomethane	50	49.49	99								43 - 159	-		
Isobutanol	1050	1420	135								32 - 160	-		
Methacrylonitrile	550	747.7	136								10 - 171	-		
Methylene chloride	50	50.77	102								29 - 159	-		A11
Methyl methacrylate	100	125	125								52 - 167	-		
4-Methyl-2-pentanone (MI	50	61.59	123								13 - 162	-		

5/24/2007 10:30:00

* denotes recovery outside of QC limits.

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

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Pennsylvania DEP (NELAC) 68-04202

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New Orleans Laboratory

Report of Quality Control

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Method: EPA 8260 **Project:** 2069192 **LCS:** 20519800 5/9/2007 6:31:00 PM

Batch: 85658 **MS:**

Units: ug/L **Original for MS:**

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Propionitrile	550	851.6	155								23 - 159	-		
Styrene	50	46.67	93								71 - 134	-		
1,1,1,2-Tetrachloroethane	50	43.23	87								73 - 146	-		
1,1,2,2-Tetrachloroethane	50	56.65	113								50 - 142	-		
Tetrachloroethene	50	41.46	83								42 - 156	-		
Toluene	50	45.78	92								72 - 132	-		
1,1,1-Trichloroethane	50	43.39	87								65 - 136	-		
1,1,2-Trichloroethane	50	58.82	118								67 - 144	-		
Trichloroethene	50	47.23	95								69 - 136	-		
Trichlorofluoromethane	50	30.19	60								42 - 161	-		
1,2,3-Trichloropropane	50	62.96	126								52 - 152	-		
1,2,4-Trimethylbenzene	50	36.39	73								59 - 137	-		
1,3,5-Trimethylbenzene	50	35.89	72								69 - 135	-		
Vinyl acetate	50	127.3	255 *								21 - 190	-		Q10
Vinyl chloride	50	40.66	81								40 - 146	-		
m&p-Xylene	100	79.66	80								70 - 129	-		
o-Xylene	50	40.87	82								70 - 129	-		

56 compound(s) reported

5/24/2007 10:30:01

*** denotes recovery outside of QC limits.**

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

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Report of Batch Surrogate Recovery

Pace Analytical Services, Inc.
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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Report: 2069192 **Batch: 85658**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20519235	Sample	107	122	100					
20519269	Sample	107	115	105					
20519270	Sample	111	123	100					
20519271	Sample	110	124	98					
20519493	BLANK	109	111	98					
20519494	LCS	97	114	107					
20519495	MS	97	112	99					
20519496	MSD	99	115	102					
20519799	BLANK	100	123	108					
20519800	LCS	97	112	107					
QC limits:		71-129	68-124	74-122					

Sur 1: 4-Bromofluorobenzene (S)
Sur 2: Dibromofluoromethane (S)
Sur 3: Toluene-d8 (S)

5/24/2007 10:30:04

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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Report of Method Blank

Pace Analytical Services, Inc.
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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20519493
Description: 8260 VOAs Full List Water BLK **Project No.:** 2069192
Method: EPA 8260 **Batch:** 85658 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 08-May-07 **Analyzed:** 05/08/07 11:38 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
67-64-1	Acetone	1	ND	A11	10.0
75-05-8	Acetonitrile	1	ND		100.
107-02-8	Acrolein	1	ND		20.0
107-13-1	Acrylonitrile	1	ND		20.0
107-05-1	Allyl chloride	1	ND		10.0
71-43-2	Benzene	1	ND		5.00
75-27-4	Bromodichloromethane	1	ND		5.00
75-25-2	Bromoform	1	ND		5.00
74-83-9	Bromomethane	1	ND		5.00
78-93-3	2-Butanone (MEK)	1	ND	A11	10.0
75-15-0	Carbon disulfide	1	ND		5.00
56-23-5	Carbon tetrachloride	1	ND		5.00
108-90-7	Chlorobenzene	1	ND		5.00
75-00-3	Chloroethane	1	ND		5.00
67-66-3	Chloroform	1	ND		5.00
74-87-3	Chloromethane	1	ND		5.00
126-99-8	Chloroprene	1	ND		5.00
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.00
124-48-1	Dibromochloromethane	1	ND		5.00
106-93-4	1,2-Dibromoethane (EDB)	1	ND		5.00
74-95-3	Dibromomethane	1	ND		5.00
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		5.00
75-71-8	Dichlorodifluoromethane	1	ND		5.00
75-34-3	1,1-Dichloroethane	1	ND		5.00
107-06-2	1,2-Dichloroethane	1	ND		5.00
75-35-4	1,1-Dichloroethene	1	ND		5.00
156-59-2	cis-1,2-Dichloroethene	1	ND		5.00
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00
78-87-5	1,2-Dichloropropane	1	ND		5.00
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		250.
100-41-4	Ethylbenzene	1	ND		5.00
97-63-2	Ethyl methacrylate	1	ND		10.0
591-78-6	2-Hexanone	1	ND		10.0
74-88-4	Iodomethane	1	ND		5.00

5/24/2007 10:30:07

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20519493
Description: 8260 VOAs Full List Water BLK **Project No.:** 2069192
Method: EPA 8260 **Batch:** 85658 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 08-May-07 **Analyzed:** 05/08/07 11:38 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
78-83-1	Isobutanol	1	ND		250.
98-82-8	Isopropylbenzene (Cumene)	1	ND		5.00
126-98-7	Methacrylonitrile	1	ND		100.
79-20-9	Methyl acetate	1	ND		10.0
75-09-2	Methylene chloride	1	ND	A11	5.00
80-62-6	Methyl methacrylate	1	ND		10.0
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0
1634-04-4	Methyl-tert-butyl ether	1	ND		5.00
107-12-0	Propionitrile	1	ND		20.0
100-42-5	Styrene	1	ND		5.00
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.00
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00
127-18-4	Tetrachloroethene	1	ND		5.00
108-88-3	Toluene	1	ND		5.00
71-55-6	1,1,1-Trichloroethane	1	ND		5.00
79-00-5	1,1,2-Trichloroethane	1	ND		5.00
79-01-6	Trichloroethene	1	ND		5.00
75-69-4	Trichlorofluoromethane	1	ND		5.00
96-18-4	1,2,3-Trichloropropane	1	ND		5.00
95-63-6	1,2,4-Trimethylbenzene	1	ND		5.00
108-67-8	1,3,5-Trimethylbenzene	1	ND		5.00
108-05-4	Vinyl acetate	1	ND		10.0
75-01-4	Vinyl chloride	1	ND		5.00
	m&p-Xylene	1	ND		10.0
95-47-6	o-Xylene	1	ND		5.00

61 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
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RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20519799
Description: 8260 VOAs Full List Water BLK **Project No.:** 2069192
Method: EPA 8260 **Batch:** 85658 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 09-May-07 **Analyzed:** 05/09/07 18:09 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
67-64-1	Acetone	1	ND	A11	10.0
75-05-8	Acetonitrile	1	ND		100.
107-02-8	Acrolein	1	ND		20.0
107-13-1	Acrylonitrile	1	ND		20.0
107-05-1	Allyl chloride	1	ND		10.0
71-43-2	Benzene	1	ND		5.00
75-27-4	Bromodichloromethane	1	ND		5.00
75-25-2	Bromoform	1	ND		5.00
74-83-9	Bromomethane	1	ND		5.00
78-93-3	2-Butanone (MEK)	1	ND	A11	10.0
75-15-0	Carbon disulfide	1	ND		5.00
56-23-5	Carbon tetrachloride	1	ND		5.00
108-90-7	Chlorobenzene	1	ND		5.00
75-00-3	Chloroethane	1	ND		5.00
67-66-3	Chloroform	1	ND		5.00
74-87-3	Chloromethane	1	ND		5.00
126-99-8	Chloroprene	1	ND		5.00
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.00
124-48-1	Dibromochloromethane	1	ND		5.00
106-93-4	1,2-Dibromoethane (EDB)	1	ND		5.00
74-95-3	Dibromomethane	1	ND		5.00
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		5.00
75-71-8	Dichlorodifluoromethane	1	ND		5.00
75-34-3	1,1-Dichloroethane	1	ND		5.00
107-06-2	1,2-Dichloroethane	1	ND		5.00
75-35-4	1,1-Dichloroethene	1	ND		5.00
156-59-2	cis-1,2-Dichloroethene	1	ND		5.00
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00
78-87-5	1,2-Dichloropropane	1	ND		5.00
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		250.
100-41-4	Ethylbenzene	1	ND		5.00
97-63-2	Ethyl methacrylate	1	ND		10.0
591-78-6	2-Hexanone	1	ND		10.0
74-88-4	Iodomethane	1	ND		5.00

5/24/2007 10:30:07

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DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health .Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270
Pennsylvania DEP (NELAC) 68-04202

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New Orleans Laboratory

Report of Method Blank

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20519799
Description: 8260 VOAs Full List Water BLK **Project No.:** 2069192
Method: EPA 8260 **Batch:** 85658 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 09-May-07 **Analyzed:** 05/09/07 18:09 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
78-83-1	Isobutanol	1	ND		250.
98-82-8	Isopropylbenzene (Cumene)	1	ND		5.00
126-98-7	Methacrylonitrile	1	ND		100.
79-20-9	Methyl acetate	1	ND		10.0
75-09-2	Methylene chloride	1	ND	A11	5.00
80-62-6	Methyl methacrylate	1	ND		10.0
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0
1634-04-4	Methyl-tert-butyl ether	1	ND		5.00
107-12-0	Propionitrile	1	ND		20.0
100-42-5	Styrene	1	ND		5.00
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.00
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00
127-18-4	Tetrachloroethene	1	ND		5.00
108-88-3	Toluene	1	ND		5.00
71-55-6	1,1,1-Trichloroethane	1	ND		5.00
79-00-5	1,1,2-Trichloroethane	1	ND		5.00
79-01-6	Trichloroethene	1	ND		5.00
75-69-4	Trichlorofluoromethane	1	ND		5.00
96-18-4	1,2,3-Trichloropropane	1	ND		5.00
95-63-6	1,2,4-Trimethylbenzene	1	ND		5.00
108-67-8	1,3,5-Trimethylbenzene	1	ND		5.00
108-05-4	Vinyl acetate	1	ND		10.0
75-01-4	Vinyl chloride	1	ND		5.00
	m&p-Xylene	1	ND		10.0
95-47-6	o-Xylene	1	ND		5.00

61 compound(s) reported

5/24/2007 10:30:07

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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Report of Quality Control

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Method: EPA 8151 **Project:** 2069192 **LCS:** 20519386 5/16/2007 11:12:00 PM

Batch: 85356 **MS:** 20518872 5/16/2007 8:54:00 PM

Units: ug/L **Original for MS:** 20518719 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Dinoseb	5	1.84	37	12.5	0.00	3.22	1.482	26	12	74 *	10 - 146	10 - 151	20	

1 compound(s) reported

* denotes recovery outside of QC limits.

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

5/24/2007 10:30:10

New Orleans Laboratory Certifications
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Report of Batch Surrogate Recovery

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Report: 2069192 **Batch: 85356**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20517788	BLANK	82	82						
20517789	LCS	113	113						
20518870	BLANK	104	167						
20518871	LCS	97	152						
20518872	MS	120	106						
20518873	MSD	83	153						
20519235	Sample	101	100						
20519385	BLANK	112	111						
20519386	LCS	104	103						
	QC limits:	10-181	10-181						

Sur 1: 2,4-DCPA (Conf)(S)
Sur 2: 2,4-DCPA (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

5/24/2007 10:30:13

New Orleans Laboratory Certifications
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Report of Batch Surrogate Recovery

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Report: 2069192 **Batch: 85565**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20519163	BLANK	70	72	60	62				
20519164	LCS	72	74	58	61				
20519165	MS	58	59	42	43				
20519166	MSD	67	69	43	51				
20519235	Sample	86	83	79	66				
20519924	BLANK	47	46	44	47				
20519925	LCS	62	62	57	58				
	QC limits:	10-157	10-157	18-171	18-171				

Sur 1: Decachlorobiphenyl (Conf)(S)
Sur 2: Decachlorobiphenyl (S)
Sur 3: Tetrachloro-m-xylene (Conf)(S)
Sur 4: Tetrachloro-m-xylene (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

5/24/2007 10:30:13

New Orleans Laboratory Certifications
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Report of Method Blank

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20519385
Description: 8151 Herbs Water **Project No.:** 2069192
Method: EPA 8151 **Batch:** 85356 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 08-May-07 **Analyzed:** 05/16/07 22:44 SRA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
94-75-7	2,4-D	1	ND		2.00
127-20-8	Dalapon	1	ND		10.0
94-82-6	2,4-DB	1	ND		5.00
1918-00-9	Dicamba	1	ND		2.00
120-36-5	Dichloroprop	1	ND		2.00
88-85-7	Dinoseb	1	ND		2.00
94-74-6	MCPA	1	ND		250.
7085-19-0	MCPP	1	ND		250.
93-76-5	2,4,5-T	1	ND		2.00
93-72-1	2,4,5-TP (Silvex)	1	ND		2.00

10 compound(s) reported

5/24/2007 10:30:15

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Report of Method Blank

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20519924
Description: 8081 Pests Water **Project No.:** 2069192
Method: EPA 8081 **Batch:** 85565 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 10-May-07 **Analyzed:** 05/20/07 13:05 SLF

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
8001-35-2	Toxaphene	1	ND		2.00

1 compound(s) reported

5/24/2007 10:30:16

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

New Orleans Laboratory Certifications
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Report of Quality Control

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2069192

Parameter	Batch	Blank	ARL	Units	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Arsenic	85651	ND	10.0	ug/L	1000	1016	102	1000	0.00	975.9	994.4	98	99	2		79 - 122	68 - 130	20	
Arsenic, Disso	85821	ND	10.0	ug/L	1000	963.8	96	1000	0.00	807.6	792.4	81	79	2		72 - 116	60 - 123	20	

5/24/2007 10:30:19

* denotes recovery outside of QC limits.
ARL denotes Adjusted Reporting Limit, corrected for sample size, dilution and moisture content as applicable.
MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0681
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Report Qualifiers

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2069192

Analyte Qualifiers

Qualifier	Qualifier Description
A11	This analyte is a common solvent. Its presence in field samples may be an artifact of sample collection, transport, laboratory storage or analysis.
J	This estimated value for the analyte is below the adjusted reporting limit but above the instrument reporting limit.

QC Qualifiers

Qualifier	Qualifier Description
Q10	The spike recovery was above the laboratory QC limits, however, the data are reported without qualification since the target analyte was not detected in the corresponding samples.

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

2069192

Page: of

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: ARCADIS	Report To: Craig Derouen	Attention: ARCADIS - Accounts Payable
Address: 10352 Plaza Americana Drive	Copy To: Jane Kennedy	Company Name: ARCADIS
Baton Rouge, Louisiana 70816		Address: 10352 Plaza Americana; Baton Rouge, LA 70819
Email To: Craig.Derouen@arcadis-us.com; Jane.Kennedy@arcadis-us.com	Purchase Order No.:	Pace Quote Reference:
Phone: (225) 292-1004 Fax: (225) 218-9677	Project Name: MS Bluffs (Vicksburg, MS)	Pace Project Manager: Cindy Olavesen 504-305-3626
Requested Due Date/TAT:	Project Number: LA002656.0001	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER MDEQ TRGs

SITE LOCATION ☐ GA ☐ IL ☐ IN ☐ M ☐ NC ☐ OH ☐ SC ☐ W ☑ OTHER MS

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL	SL
OIL	OL WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	Section D Required Client Information SAMPLE ID (One Character per box. (A-Z, 0-9 / ,-) Samples IDs MUST BE UNIQUE)	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis: 8260	8270	8081-TOXAPHENE	8151-DINOSEB	ARSENIC	D-ARSENIC	Pace Project Number / Lab I.D.
1	TP-PZ-04	W	G	5/3					12									3	3	2	2	1	1	9269
2	MW-6	W	G	5/3					3									3						270
3	MW-4	W	G	5/4					3									3						271
4	TB050407	W	G	5/4					2									2						
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

Additional Comments:

MDEQ Tier 1 TRG Detection Limits

filter diss Arsenic on receipt

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
John Trahan	5/4	1645	Marvin Adams	5-4-07	1645
Marvin Adams	5/5	1300	Rob Pate	5/5/07	1300

SAMPLE CONDITIONS

Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
4.0	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: John Trahan

SIGNATURE of SAMPLER: John Trahan DATE Signed (MM / DD / YY): 5-4-07

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

2069192

Page: of

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: ARCADIS	Report To: Craig Derouen	Attention: ARCADIS - Accounts Payable
Address: 10352 Plaza Americana Drive	Copy To: Jane Kennedy	Company Name: ARCADIS
Baton Rouge, Louisiana 70816		Address: 10352 Plaza Americana; Baton Rouge, LA 70819
Email To: Craig.Derouen@arcadis-us.com; Jane.Kennedy@arcadis-us.com	Purchase Order No.:	Pace Quote Reference:
Phone: (225) 292-1004 Fax: (225) 218-9677	Project Name: MS Bluffs (Vicksburg, MS)	Pace Project Manager: Cindy Olavesen 504-305-3626
Requested Due Date/TAT:	Project Number: LA002656.0001	Pace Profile #:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER MDEQ TRGs

SITE LOCATION GA IL IN MI NC OH SC WV OTHER MS

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / ,-) Samples IDs MUST BE UNIQUE)	MATRIX CODE	SAMPLE TYPE G+GRAB C=COMP	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Filtered (Y/N)	Requested Analysis: 8260	8270	8081-TOXAPHENE	8151-DINOSEB	ARSENIC	D-HASENIC	Pace Project Number / Lab I.D.
1	TP-PZ-04	W	G	5/3					12										3	3	2	2	1	1	2069235
2	MW-6	W	G	5/3					3										3						9269
3	MW-4	W	G	5/4					3										3						270
4	TB05040 7	W	G	5/4					2										2						271
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									

Additional Comments:

MDEQ Tier 1 TRG Detection Limits

filter diss Arsenic on receipt

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
John Trahan	5/4	1645	[illegible]	5-4-07	1645
Mara Gibson	5/5	1300	Pace	5/5/07	1300

SAMPLE CONDITIONS: 4.0

Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: John Trahan

SIGNATURE of SAMPLER: John Trahan DATE Signed (MM / DD / YY): 5-4-07

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New Orleans Laboratory

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1000 Riverbend Blvd. Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

June 08, 2007

Craig Derouen
Arcadis Geraghty & Miller
10352 Plaza Americana Drive
Baton Rouge, LA 70816

RE: Project: 2069595
RE: Project ID: MS BLUFFS/LA2656.01.12

Dear Craig Derouen:

Enclosed are the analytical results for sample(s) received by the laboratory on May 17, 2007. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Cindy Olavesen

Cindy Olavesen

ACCREDITED IN ACCORDANCE WITH nelac

REPORT OF LABORATORY ANALYSIS

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LELAP # 02006

Report of Laboratory Analysis

Project Number: 2069595

6/8/2007 12:39:44

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Sample Cross Reference Report

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Project: MS BLUFFS/LA2656.01.12

Project No.: 2069595

Sample ID	Lab ID	Matrix	Collection Date/Time	Received Date/Time
NP-SED	20521932	Soil	05/16/2007 11:00	05/17/2007 15:35

6/8/2007 12:39:47

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Project Narrative

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: **2069595**

Sample Receipt Condition:

All samples were received in accordance with EPA protocol.

Holding Times:

All holding times were met.

Blanks:

All blank results were below reporting limits.

Laboratory Control Samples:

LCS recoveries outside of QC limits are qualified in the Report of Quality Control section.

Matrix Spikes and Duplicates:

MS or MSD recoveries outside of QC limits are qualified in the Report of Quality Control section.

Surrogates:

Surrogate recoveries outside of QC limits are qualified in the surrogate results section.

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Project Narrative

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2069595

Analytical Method	Batch	Sample used for QC
EPA 8081	86423	Batch sample from another client
EPA 6010	86140	Batch sample from another client
EPA 8270	86301	Batch sample from another client
EPA 8260	86182	Batch sample from another client
% Moisture	86123	Batch sample from another client

For the sample used as the original for the DUP or MS/MSD for the batch:

Project sample means a sample from this project was used.
Client sample means a sample from the same client but in a different project was used.
Batch sample means a sample from the a different client was used.

New Orleans Laboratory Certifications
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Report of Laboratory Analysis

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: NP-SED
Site: None
Project: MS BLUFFS/LA2656.01.12
Project No.: 2069595
Sample Qu:
Lab ID: 20521932
Matrix: Soil
% Moisture: 60.7 Corrected
Description: None
Prep Level: Soil
Batch: 86182
Method: 8260 VOAs Low Soil
Units: ug/kg
Target List: 8260_SL20
Collected: 05/16/07
Received: 05/17/07
Prep Factor: 1
Prepared: 05/21/07
Analyzed: 05/21/07 18:07 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone	1	ND	A11	53.7	
75-05-8	Acetonitrile	1	ND		537.	
107-02-8	Acrolein	1	ND		107.	
107-13-1	Acrylonitrile	1	ND		107.	
107-05-1	Allyl chloride	1	ND		53.7	
71-43-2	Benzene	1	ND		26.9	
75-27-4	Bromodichloromethane	1	ND		26.9	
75-25-2	Bromoform	1	ND		26.9	
74-83-9	Bromomethane	1	ND		26.9	
78-93-3	2-Butanone (MEK)	1	222.	A11	53.7	
75-15-0	Carbon disulfide	1	ND		26.9	
56-23-5	Carbon tetrachloride	1	ND		26.9	
108-90-7	Chlorobenzene	1	ND		26.9	
75-00-3	Chloroethane	1	ND		26.9	
67-66-3	Chloroform	1	ND		26.9	
74-87-3	Chloromethane	1	ND		26.9	
126-99-8	Chloroprene	1	ND		26.9	
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		26.9	
124-48-1	Dibromochloromethane	1	ND		26.9	
106-93-4	1,2-Dibromoethane (EDB)	1	ND		26.9	
74-95-3	Dibromomethane	1	ND		26.9	
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		26.9	
75-71-8	Dichlorodifluoromethane	1	ND		26.9	
75-34-3	1,1-Dichloroethane	1	ND		26.9	
107-06-2	1,2-Dichloroethane	1	ND		26.9	
75-35-4	1,1-Dichloroethene	1	ND		26.9	
156-60-5	trans-1,2-Dichloroethene	1	ND		26.9	
78-87-5	1,2-Dichloropropane	1	ND		26.9	
10061-01-5	cis-1,3-Dichloropropene	1	ND		26.9	
10061-02-6	trans-1,3-Dichloropropene	1	ND		26.9	
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		1340	

ND denotes Not Detected at or above the adjusted reporting limit.
A Prep Factor other than 1 accounts for a non-routine sample size.
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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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6/8/2007 12:40:20

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Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
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Kansas Dept. of Health .Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270
Pennsylvania DEP (NELAC) 68-04202

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Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: NP-SED
Site: None
Project: MS BLUFFS/LA2656.01.12
Project No.: 2069595
Sample Qu:
Lab ID: 20521932
Matrix: Soil
% Moisture: 60.7 Corrected
Description: None
Prep Level: Soil
Batch: 86182
Method: 8260 VOAs Low Soil
Units: ug/kg
Target List: 8260_SL20
Collected: 05/16/07
Received: 05/17/07
Prep Factor: 1
Prepared: 05/21/07
Analyzed: 05/21/07 18:07 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
100-41-4	Ethylbenzene	1	ND		26.9	
97-63-2	Ethyl methacrylate	1	ND		53.7	
591-78-6	2-Hexanone	1	ND		53.7	
74-88-4	Iodomethane	1	ND		26.9	
78-83-1	Isobutanol	1	ND		1340	
126-98-7	Methacrylonitrile	1	ND		537.	
75-09-2	Methylene chloride	1	ND	A11	26.9	
80-62-6	Methyl methacrylate	1	ND		53.7	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		53.7	
107-12-0	Propionitrile	1	ND		107.	
100-42-5	Styrene	1	ND		26.9	
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		26.9	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		26.9	
127-18-4	Tetrachloroethene	1	ND		26.9	
108-88-3	Toluene	1	ND		26.9	
71-55-6	1,1,1-Trichloroethane	1	ND		26.9	
79-00-5	1,1,2-Trichloroethane	1	ND		26.9	
79-01-6	Trichloroethene	1	ND		26.9	
75-69-4	Trichlorofluoromethane	1	ND		26.9	
96-18-4	1,2,3-Trichloropropane	1	ND		26.9	
95-63-6	1,2,4-Trimethylbenzene	1	ND		26.9	
108-67-8	1,3,5-Trimethylbenzene	1	ND		26.9	
108-05-4	Vinyl acetate	1	ND		53.7	
75-01-4	Vinyl chloride	1	ND		26.9	
	m&p-Xylene	1	ND		53.7	
95-47-6	o-Xylene	1	ND		26.9	

57 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: NP-SED
Site: None
Project: MS BLUFFS/LA2656.01.12
Project No.: 2069595
Sample Qu:
Lab ID: 20521932
Matrix: Soil
% Moisture: 60.7 Not Corrected
Description: None
Prep Level: Soil
Batch: 86301
Method: 8270 SVOAs Low Soil
Units: ug/kg
Target List: 8270_SL20
Collected: 05/16/07
Received: 05/17/07
Prep Factor: 1
Prepared: 05/23/07
Analyzed: 05/25/07 19:10 JAM

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		330.	
1912-24-9	Atrazine	1	ND		330.	
21725-46-2	Cyanazine	1	ND		330.	
88-85-7	Dinoseb	1	ND		330.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		330.	
100-02-7	4-Nitrophenol	1	ND		330.	
87-86-5	Pentachlorophenol	1	ND		330.	

7 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: NP-SED
Site: None
Project: MS BLUFFS/LA2656.01.12
Project No.: 2069595
Sample Qu:
Lab ID: 20521932
Matrix: Soil
% Moisture: 60.7 Not Corrected
Description: None
Prep Level: Soil
Batch: 86423
Method: 8081 Pests Low Soil
Units: ug/kg
Target List: 8081_SL20
Collected: 05/16/07
Received: 05/17/07
Prep Factor: 1
Prepared: 05/24/07
Analyzed: 05/31/07 13:34 SLF

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
8001-35-2	Toxaphene	1	ND		66.7	

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
A Prep Factor other than 1 accounts for a non-routine sample size.
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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: NP-SED
Client: Arcadis Geraghty & Miller
Project: MS BLUFFS/LA2656.01.12
Site: None
Lab ID: 20521932
Project No.: 2069595
Description: None
Matrix: Soil
%Moisture: 60.7 Corrected
Collected: 05/16/07
Received: 05/17/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	86140	1	ND		mg/kg	2.45	23-May-07	24-May-07	15:18 KJR	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
PF other than 1 denotes sample Prep Factor which accounts for a non-routine sample size.
DF denotes Dilution Factor of final sample.
Reporting/Detection Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.

6/8/2007 12:40:26

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Report of Quality Control

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Method: EPA 8260 **Project:** 2069595 **LCS:** 20522300 5/21/2007 2:18:00 PM

Batch: 86182 **MS:** 20522309 5/21/2007 7:43:00 PM

Units: ug/kg **Original for MS:** 20522037 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Acetone	50	74.16	148	42.44	176.00	240.7	246.6	153	139	2	11 - 166	10 - 183	20	A11
Acetonitrile	550	1191	217 *	466.9	0.00	769.6	955.5	165 *	171 *	22 *	22 - 198	50 - 150	20	Q10
Acrolein	100	71.65	72	84.89	0.00	15.76	17.3	19	17	9	10 - 150	10 - 147	20	
Acrylonitrile	150	138.8	93	127.3	0.00	95.93	123.2	75	81	25 *	10 - 150	10 - 150	20	
Allyl chloride	100	115.6	116	84.89	0.00	72.25	92.52	85	91	25 *	32 - 170	10 - 163	20	
Benzene	50	50.94	102	42.44	0.00	29.4	36.52	69	72	22 *	65 - 136	33 - 143	20	
Bromodichloromethane	50	51.49	103	42.44	0.00	27.22	34.7	64	68	24 *	56 - 157	14 - 155	20	
Bromoform	50	45.09	90	42.44	0.00	17.28	24.51	41	48	35 *	46 - 156	10 - 152	20	
Bromomethane	50	54.37	109	42.44	0.00	34.96	42.8	82	84	20	41 - 159	14 - 162	20	
2-Butanone (MEK)	50	63.56	127	42.44	36.90	60.42	72.31	55	70	18	17 - 164	10 - 166	20	A11
Carbon disulfide	50	46.11	92	42.44	2.19	34.67	39.69	77	74	13	38 - 150	14 - 148	20	
Carbon tetrachloride	50	42.35	85	42.44	0.00	24.54	30.06	58	59	20	44 - 166	17 - 160	20	
Chlorobenzene	50	47.35	95	42.44	0.00	21.69	27.42	51	54	23 *	65 - 134	14 - 145	20	
Chloroethane	50	62.15	124	42.44	0.00	41.83	52.55	99	104	23 *	34 - 166	28 - 158	20	
Chloroform	50	52.14	104	42.44	0.00	32.1	40.18	76	79	22 *	68 - 134	35 - 141	20	
Chloromethane	50	51.14	102	42.44	0.00	36.03	43.01	85	85	18	21 - 152	10 - 158	20	
Chloroprene	50	49.92	100	42.44	0.00	17.74	22.23	42	44	22 *	47 - 143	10 - 148	20	
1,2-Dibromo-3-chloropropa	50	57.23	114	42.44	0.00	24.46	29.8	58	59	20	23 - 147	10 - 147	20	
Dibromochloromethane	50	48.52	97	42.44	0.00	23.45	31.34	55	62	29 *	53 - 150	10 - 153	20	
1,2-Dibromoethane (EDB)	50	59.83	120	42.44	0.00	27.33	36.34	64	72	28 *	47 - 152	10 - 139	20	
Dibromomethane	50	57.68	115	42.44	0.00	29.63	38.46	70	76	26 *	55 - 153	34 - 145	20	
trans-1,4-Dichloro-2-butene	100	108.6	109	84.89	0.00	57.25	73.63	67	73	25 *	11 - 161	10 - 157	20	
1,1-Dichloroethane	50	53.31	107	42.44	0.00	33.72	42.31	79	83	23 *	61 - 135	36 - 141	20	
1,2-Dichloroethane	50	57.81	116	42.44	0.00	31.95	40.99	75	81	25 *	46 - 162	15 - 158	20	
1,1-Dichloroethene	50	56.62	113	42.44	0.00	35.84	44.11	84	87	21 *	50 - 144	31 - 149	20	
trans-1,2-Dichloroethene	50	54.82	110	42.44	0.00	33.16	40.63	78	80	20	56 - 138	29 - 142	20	
1,2-Dichloropropane	50	54.75	110	42.44	0.00	31.17	39.05	73	77	22 *	64 - 136	28 - 141	20	
cis-1,3-Dichloropropene	50	60.22	120	42.44	0.00	28.89	37.14	68	73	25 *	58 - 142	10 - 145	20	
trans-1,3-Dichloropropene	50	62.31	125	42.44	0.00	27.25	34.39	64	68	23 *	47 - 152	10 - 149	20	
1,4-Dioxane (p-Dioxane)	1050	1332	127	891.3	0.00	1473	1816	165	171	21 *	24 - 168	10 - 193	20	
Ethylbenzene	50	45.77	92	42.44	0.00	22.04	27.1	52	53	21 *	62 - 134	11 - 144	20	
Ethyl methacrylate	100	131.7	132 *	84.89	0.00	60.74	80.84	72	80	28 *	70 - 130	70 - 130	20	Q10
2-Hexanone	50	60.94	122	42.44	0.00	40.98	46.3	97	91	12	22 - 162	10 - 165	20	
Iodomethane	50	54.13	108	42.44	0.00	32.86	40.41	77	80	21 *	10 - 233	10 - 229	20	
Isobutanol	1050	778.2	74	891.3	0.00	1439	1600	161	150	11	14 - 161	10 - 167	20	
Methacrylonitrile	550	742.4	135	466.9	0.00	427.8	564.7	92	101	28 *	10 - 174	50 - 150	20	
Methylene chloride	50	65.48	131	42.44	0.00	39.63	50.6	93	100	24 *	23 - 161	10 - 146	20	A11
Methyl methacrylate	100	126.4	126	84.89	0.00	62.62	85.23	74	84	31 *	70 - 130	70 - 130	20	
4-Methyl-2-pentanone (MI	50	64.15	128	42.44	0.00	37.73	51.26	89	101	30 *	10 - 167	10 - 150	20	

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* denotes recovery outside of QC limits.

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Method: EPA 8260 **Project:** 2069595 **LCS:** 20522300 5/21/2007 2:18:00 PM

Batch: 86182 **MS:** 20522309 5/21/2007 7:43:00 PM

Units: ug/kg **Original for MS:** 20522037 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Propionitrile	550	779.1	142	466.9	0.00	589.5	674.8	126	121	14	10 - 174	10 - 137	20	
Styrene	50	49.2	98	42.44	0.00	8.302	10.08	20	20	19	64 - 138	10 - 145	20	
1,1,1,2-Tetrachloroethane	50	47.36	95	42.44	0.00	24.15	30.93	57	61	25 *	56 - 154	10 - 162	20	
1,1,2,2-Tetrachloroethane	50	71.54	143	42.44	0.00	40.2	53.47	95	105	28 *	41 - 144	10 - 162	20	
Tetrachloroethene	50	48.03	96	42.44	0.00	22.9	28.28	54	56	21 *	30 - 161	10 - 179	20	
Toluene	50	50.03	100	42.44	0.00	26.11	32.2	62	64	21 *	65 - 135	21 - 147	20	
1,1,1-Trichloroethane	50	45.43	91	42.44	0.00	28.37	35.61	67	70	23 *	57 - 139	32 - 144	20	
1,1,2-Trichloroethane	50	58.56	117	42.44	0.00	29.59	39.57	70	78	29 *	59 - 145	13 - 150	20	
Trichloroethene	50	48.67	97	42.44	0.00	25.74	32.4	61	64	23 *	64 - 139	24 - 152	20	
Trichlorofluoromethane	50	64.02	128	42.44	0.00	32.45	45.59	77	90	34 *	39 - 157	20 - 153	20	
1,2,3-Trichloropropane	50	67.85	136	42.44	0.00	40.17	53.68	95	106	29 *	42 - 150	21 - 138	20	
1,2,4-Trimethylbenzene	50	47.99	96	42.44	0.00	18.43	22.9	43	45	22 *	62 - 145	43 - 124	20	
1,3,5-Trimethylbenzene	50	47.86	96	42.44	0.00	20.82	25.29	49 *	50 *	19	58 - 151	70 - 130	20	Q1
Vinyl acetate	50	71.27	143	42.44	0.00	23.17	27.96	55	55	19	10 - 210	50 - 150	20	
Vinyl chloride	50	52.69	105	42.44	0.00	37.09	44.8	87	88	19	33 - 145	15 - 153	20	
m&p-Xylene	100	90.25	90	84.89	0.00	41.43	50.37	49	50	19	60 - 138	10 - 147	20	
o-Xylene	50	45.11	90	42.44	0.00	19.56	24.74	46	49	23 *	62 - 139	10 - 149	20	

56 compound(s) reported

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* denotes recovery outside of QC limits.

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Method: EPA 8270 **Project:** 2069595 **LCS:** 20522808 5/25/2007 3:53:00 PM

Batch: 86301 **MS:** 20522809 5/25/2007 4:22:00 PM

Units: ug/kg **Original for MS:** 20521911 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Acetophenone	1667	1139	68	1667	0.00	1352	1299	81	78	4	40 - 120	40 - 120	20	
bis(2-Ethylhexyl)phthalate	1667	1177	71	1667	0.00	1085	1046	65	63	4	41 - 125	14 - 144	20	
4-Nitrophenol	1667	1295	78	1667	0.00	1402	1301	84	78	7	30 - 132	10 - 138	20	
Pentachlorophenol	1667	1362	82	1667	0.00	1431	1428	86	86	0	28 - 122	10 - 142	20	

4 compound(s) reported

* denotes recovery outside of QC limits.

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

6/8/2007 12:40:29

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270
Pennsylvania DEP (NELAC) 68-04202

Pace Analytical*
New Orleans Laboratory

Report of Batch Surrogate Recovery

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Report: 2069595 **Batch: 86182**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20521932	Sample	119	110	98					
20522037	OQS	120	115	98					
20522299	BLANK	97	120	98					
20522300	LCS	96	105	98					
20522309	MS	123	117	96					
20522310	MSD	120	115	96					
	QC limits:	55-154	57-136	64-129					

Sur 1: 4-Bromofluorobenzene (S)
Sur 2: Dibromofluoromethane (S)
Sur 3: Toluene-d8 (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

6/8/2007 12:40:31

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Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Report: 2069595 **Batch: 86301**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20521911	OQS		85		85		82		
20521932	Sample	99	49	87	81	94	46		
20522807	BLANK	97	88	87	85	93	111		
20522808	LCS	94	80	78	65	84	86		
20522809	MS	101	88	86	70	92	76		
20522810	MSD	97	80	83	69	90	75		
QC limits:			18-116		10-121		30-113		

Sur 2: 2-Fluorobiphenyl (S)

Sur 4: Nitrobenzene-d5 (S)

Sur 6: Terphenyl-d14 (S)

6/8/2007 12:40:32

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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Report of Method Blank

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20522299

Description: 8260 VOAs Full List Low, BLK **Project No.:** 2069595

Method: EPA 8260 **Batch:** 86182 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 21-May-07 **Analyzed:** 05/21/07 13:59 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
67-64-1	Acetone	1	ND	A11	10.0
75-05-8	Acetonitrile	1	ND		100.
107-02-8	Acrolein	1	ND		20.0
107-13-1	Acrylonitrile	1	ND		20.0
107-05-1	Allyl chloride	1	ND		10.0
71-43-2	Benzene	1	ND		5.00
75-27-4	Bromodichloromethane	1	ND		5.00
75-25-2	Bromoform	1	ND		5.00
74-83-9	Bromomethane	1	ND		5.00
78-93-3	2-Butanone (MEK)	1	ND	A11	10.0
75-15-0	Carbon disulfide	1	ND		5.00
56-23-5	Carbon tetrachloride	1	ND		5.00
108-90-7	Chlorobenzene	1	ND		5.00
75-00-3	Chloroethane	1	ND		5.00
67-66-3	Chloroform	1	ND		5.00
74-87-3	Chloromethane	1	ND		5.00
126-99-8	Chloroprene	1	ND		5.00
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.00
124-48-1	Dibromochloromethane	1	ND		5.00
106-93-4	1,2-Dibromoethane (EDB)	1	ND		5.00
74-95-3	Dibromomethane	1	ND		5.00
110-57-6	trans-1,4-Dichloro-2-butene	1	ND		5.00
75-71-8	Dichlorodifluoromethane	1	ND		5.00
75-34-3	1,1-Dichloroethane	1	ND		5.00
107-06-2	1,2-Dichloroethane	1	ND		5.00
75-35-4	1,1-Dichloroethene	1	ND		5.00
156-59-2	cis-1,2-Dichloroethene	1	ND		5.00
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00
78-87-5	1,2-Dichloropropane	1	ND		5.00
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00
123-91-1	1,4-Dioxane (p-Dioxane)	1	ND		250.
100-41-4	Ethylbenzene	1	ND		5.00
97-63-2	Ethyl methacrylate	1	ND		10.0
591-78-6	2-Hexanone	1	ND		10.0
74-88-4	Iodomethane	1	ND		5.00

6/8/2007 12:40:34

ND denotes Not Detected at or above the reporting limit.
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Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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New Orleans Laboratory

Report of Method Blank

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20522299

Description: 8260 VOAs Full List Low, BLK **Project No.:** 2069595

Method: EPA 8260 **Batch:** 86182 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 21-May-07 **Analyzed:** 05/21/07 13:59 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
78-83-1	Isobutanol	1	ND		250.
98-82-8	Isopropylbenzene (Cumene)	1	ND		5.00
126-98-7	Methacrylonitrile	1	ND		100.
79-20-9	Methyl acetate	1	ND		10.0
75-09-2	Methylene chloride	1	ND	A11	5.00
80-62-6	Methyl methacrylate	1	ND		10.0
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0
1634-04-4	Methyl-tert-butyl ether	1	ND		5.00
107-12-0	Propionitrile	1	ND		20.0
100-42-5	Styrene	1	ND		5.00
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.00
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00
127-18-4	Tetrachloroethene	1	ND		5.00
108-88-3	Toluene	1	ND		5.00
120-82-1	1,2,4-Trichlorobenzene	1	ND		5.00
71-55-6	1,1,1-Trichloroethane	1	ND		5.00
79-00-5	1,1,2-Trichloroethane	1	ND		5.00
79-01-6	Trichloroethene	1	ND		5.00
75-69-4	Trichlorofluoromethane	1	ND		5.00
96-18-4	1,2,3-Trichloropropane	1	ND		5.00
95-63-6	1,2,4-Trimethylbenzene	1	ND		5.00
108-67-8	1,3,5-Trimethylbenzene	1	ND		5.00
108-05-4	Vinyl acetate	1	ND		10.0
75-01-4	Vinyl chloride	1	ND		5.00
	m&p-Xylene	1	ND		10.0
95-47-6	o-Xylene	1	ND		5.00

62 compound(s) reported

6/8/2007 12:40:35

ND denotes Not Detected at or above the reporting limit.
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Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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New Orleans Laboratory

Report of Method Blank

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20522807

Description: 8270 SVOAs Low Soil **Project No.:** 2069595

Method: EPA 8270 **Batch:** 86301 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 23-May-07 **Analyzed:** 05/25/07 15:25 JAM

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
83-32-9	Acenaphthene	1	ND		330.
208-96-8	Acenaphthylene	1	ND		330.
98-86-2	Acetophenone	1	ND		330.
120-12-7	Anthracene	1	ND		330.
1912-24-9	Atrazine	1	ND		330.
56-55-3	Benzo(a)anthracene	1	ND		330.
205-99-2	Benzo(b)fluoranthene	1	ND		330.
207-08-9	Benzo(k)fluoranthene	1	ND		330.
50-32-8	Benzo(a)pyrene	1	ND		330.
218-01-9	Chrysene	1	ND		330.
21725-46-2	Cyanazine	1	ND		330.
53-70-3	Dibenz(a,h)anthracene	1	ND		330.
88-85-7	Dinoseb	1	ND		330.
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		330.
206-44-0	Fluoranthene	1	ND		330.
86-73-7	Fluorene	1	ND		330.
193-39-5	Indeno(1,2,3-cd)pyrene	1	ND		330.
91-57-6	2-Methylnaphthalene	1	ND		330.
91-20-3	Naphthalene	1	ND		330.
100-02-7	4-Nitrophenol	1	ND		330.
87-86-5	Pentachlorophenol	1	ND		330.
85-01-8	Phenanthrene	1	ND		330.
129-00-0	Pyrene	1	ND		330.

23 compound(s) reported

6/8/2007 12:40:35

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Report of Batch Surrogate Recovery

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Report: 2069595 **Batch: 86423**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20521932	Sample G1	51	45	79	266 *				
20523417	BLANK	72	72	68	66				
20523418	LCS	94	95	86	84				
	QC limits:	15-172	15-172	10-151	10-151				

Sur 1: Decachlorobiphenyl (Conf)(S)
Sur 2: Decachlorobiphenyl (S)
Sur 3: Tetrachloro-m-xylene (Conf)(S)
Sur 4: Tetrachloro-m-xylene (S)

*** denotes surrogate recovery outside of QC limits.**
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

6/8/2007 12:40:37

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Report of Method Blank

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20523417
Description: 8081 Pests Low Soil **Project No.:** 2069595
Method: EPA 8081 **Batch:** 86423 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 24-May-07 **Analyzed:** 05/31/07 13:02 SLF

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
309-00-2	Aldrin	1	ND		1.70
319-84-6	alpha-BHC	1	ND		1.70
319-85-7	beta-BHC	1	ND		1.70
319-86-8	delta-BHC	1	ND		1.70
58-89-9	gamma-BHC (Lindane)	1	ND		1.70
5103-71-9	alpha-Chlordane	1	ND		1.70
5103-74-2	gamma-Chlordane	1	ND		1.70
72-54-8	4,4'-DDD	1	ND		3.33
72-55-9	4,4'-DDE	1	ND		3.33
50-29-3	4,4'-DDT	1	ND		3.33
60-57-1	Dieldrin	1	ND		3.33
959-98-8	Endosulfan I	1	ND		1.70
33213-65-9	Endosulfan II	1	ND		3.33
1031-07-8	Endosulfan sulfate	1	ND		3.33
72-20-8	Endrin	1	ND		3.33
7421-93-4	Endrin aldehyde	1	ND		3.33
53494-70-5	Endrin ketone	1	ND		3.33
76-44-8	Heptachlor	1	ND		1.70
1024-57-3	Heptachlor epoxide	1	ND		1.70
72-43-5	Methoxychlor	1	ND		16.7
8001-35-2	Toxaphene	1	ND		66.7

21 compound(s) reported

6/8/2007 12:40:40

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Report of Quality Control

Pace Analytical Services, Inc.
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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2069595

Parameter	Batch	Blank	ARL	Units	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Arsenic	86140	ND	1.00	mg/kg	100	101.4	101	130.2	0.00	111.2	129.2	85	83	15		71 - 131	46 - 137	20	

6/8/2007 12:40:43

* denotes recovery outside of QC limits.
ARL denotes Adjusted Reporting Limit, corrected for sample size, dilution and moisture content as applicable.
MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

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Report Qualifiers

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2069595

Analyte Qualifiers

Qualifier	Qualifier Description
A11	This analyte is a common solvent. Its presence in field samples may be an artifact of sample collection, transport, laboratory storage or analysis.
G1	Interferences are present which caused poor surrogate recovery.

QC Qualifiers

Qualifier	Qualifier Description
Q1	The matrix spike recoveries are poor. Acceptable method performance for this analyte has been demonstrated by the laboratory control sample recovery.
Q10	The spike recovery was above the laboratory QC limits, however, the data are reported without qualification since the target analyte was not detected in the corresponding samples.

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ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page ____ of ____

Project Number/Name LA2656.01.12

Project Location Vicksburg MS

Laboratory Pace NO

Project Manager D Escude'

Sampler(s)/Affiliation J Trahan

North Pond Sediment

2069595

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE: Terracore Kit VOAs HOL	4oz. HDPE Arsenic HOL	4oz. HDPE SVOA HOL	8oz. HDPE Dinoseb, Toxaphene HOL			Remarks	Total
		5-16-07									
NP-Sed	S	1100		1	1	1	1			20521932	4

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers: 4

Relinquished by: J Trahan	Organization: ARCADIS	Date 5/17/07	Time 1430	Seal Intact?		
Received by: [illegible]	Organization: Pace	Date 5/17/07	Time 1430	Yes	No	N/A
Relinquished by: [illegible]	Organization: Pace	Date 5-17-07	Time 1535	Seal Intact?		
Received by: [illegible]	Organization: Pace	Date 5/17/07	Time 1535	(Yes)	No	N/A

Special Instructions/Remarks: 2.2°

Delivery Method: ☐ In Person ☐ Common Carrier _____ SPECIFY ☐ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

ARCADIS

Laboratory Task Order No./P.O. No. ________ **CHAIN-OF-CUSTODY RECORD** Page ___ of ___

Project Number/Name LA2656.01.12

Project Location Vicksburg MS

Laboratory Pace NO

Project Manager D Escude'

Sampler(s)/Affiliation J Trahan

North Pond Sediment

2069595

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE: Terracore Kit VOAs	4oz for Arsenic 4oC	4oz for SVOA 4oC	8oz for Dinoseb, Toxaphene 4oC			Remarks	Total
		5-16-07									
NP-Sed	S	1100		1	1	1	1			2052932	4
											#

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers 4

Relinquished by: J Trahan	Organization: ARCADIS	Date 5/17/07	Time 1430	Seal Intact?
Received by: [signature]	Organization: Pace	Date 5/17/07	Time 1430	Yes No N/A
Relinquished by: [signature]	Organization: Pace	Date 5-17-07	Time 1535	Seal Intact?
Received by: N J Miller	Organization: Pace	Date 5/17/07	Time 1535	(Yes) No N/A

Special Instructions/Remarks: 2.2°

Delivery Method: ☐ In Person ☐ Common Carrier ________ SPECIFY ☐ Lab Courier ☐ Other ________ SPECIFY

AG 05-12/01

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New Orleans Laboratory

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

June 12, 2007

Craig Derouen
Arcadis Geraghty & Miller
10352 Plaza Americana Drive
Baton Rouge, LA 70816

RE: Project: 2069996
RE: Project ID: MS BLUFFS/LA2656.01.1.3

Dear Craig Derouen:

Enclosed are the analytical results for sample(s) received by the laboratory on May 31, 2007. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Cindy Olavesen

Cindy Olavesen

ACCREDITED IN ACCORDANCE WITH nelac

REPORT OF LABORATORY ANALYSIS

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Report of Laboratory Analysis

Project Number: 2069996

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6/12/2007 09:17:40

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Sample Cross Reference Report

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Project: MS BLUFFS/LA2656.01.1.3

Project No.: 2069996

Sample ID	Lab ID	Matrix	Collection Date/Time		Received Date/Time	
TP-PZ-01	20524552	Water	05/30/2007	15:10	05/31/2007	15:35
TP-PZ-02	20524553	Water	05/30/2007	14:45	05/31/2007	15:35
TP-PZ-03	20524554	Water	05/30/2007	15:45	05/31/2007	15:35
TP-PZ-04	20524555	Water	05/30/2007	13:15	05/31/2007	15:35
TP-PZ-05	20524556	Water	05/30/2007	12:00	05/31/2007	15:35
TP-PZ-06	20524558	Water	05/30/2007	12:30	05/31/2007	15:35
TP-PZ-07	20524559	Water	05/30/2007	13:45	05/31/2007	15:35

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Project Narrative

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Project: **2069996**

Sample Receipt Condition:

All samples were received in accordance with EPA protocol.

Holding Times:

All holding times were met.

Blanks:

All blank results were below reporting limits.

Laboratory Control Samples:

All LCS recoveries were within QC limits.

Matrix Spikes and Duplicates:

All MS/MSD recoveries or duplicate RPDs were within QC limits.

Surrogates:

All surrogate recoveries were within QC limits.

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Project: 2069996

Analytical Method	Batch	Sample used for QC
EPA 8270	86474	Batch sample from another client

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For the sample used as the original for the DUP or MS/MSD for the batch:

Project sample means a sample from this project was used.
Client sample means a sample from the same client but in a different project was used.
Batch sample means a sample from the a different client was used.

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: TP-PZ-01 **Site:** None

Project: MS BLUFFS/LA2656.01.1.3 **Project No.:** 2069996 **Sample Qu:**

Lab ID: 20524552 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 86474

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 05/30/07 **Received:** 05/31/07

Prep Factor: 1 **Prepared:** 06/01/07 **Analyzed:** 06/07/07 20:54 JAM

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		10.0	
1912-24-9	Atrazine	1	ND		10.0	
21725-46-2	Cyanazine	1	ND		10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		10.0	
100-02-7	4-Nitrophenol	1	ND		10.0	
87-86-5	Pentachlorophenol	1	ND		10.0	

6 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
A Prep Factor other than 1 accounts for a non-routine sample size.
Reporting/Detection Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit denotes an actual regulatory limit or a client-requested notification limit.

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Client: Arcadis Geraghty & Miller

Client ID: TP-PZ-02 | **Site:** None

Project: MS BLUFFS/LA2656.01.1.3 | **Project No.:** 2069996 | **Sample Qu:**

Lab ID: 20524553 | **Matrix:** Water | **% Moisture:** n/a

Description: None | **Prep Level:** Water | **Batch:** 86474

Method: 8270 SVOAs Water | **Units:** ug/L | **Target List:** 8270_WL20

Collected: 05/30/07 | **Received:** 05/31/07

Prep Factor: 1 | **Prepared:** 06/01/07 | **Analyzed:** 06/07/07 21:21 JAM

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		10.0	
1912-24-9	Atrazine	1	ND		10.0	
21725-46-2	Cyanazine	1	ND		10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		10.0	
100-02-7	4-Nitrophenol	1	ND		10.0	
87-86-5	Pentachlorophenol	1	ND		10.0	

6 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: TP-PZ-03 **Site:** None

Project: MS BLUFFS/LA2656.01.1.3 **Project No.:** 2069996 **Sample Qu:**

Lab ID: 20524554 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 86474

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 05/30/07 **Received:** 05/31/07

Prep Factor: 1 **Prepared:** 06/01/07 **Analyzed:** 06/07/07 21:50 JAM

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		10.0	
1912-24-9	Atrazine	1	ND		10.0	
21725-46-2	Cyanazine	1	ND		10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		10.0	
100-02-7	4-Nitrophenol	1	ND		10.0	
87-86-5	Pentachlorophenol	1	ND		10.0	

6 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
A Prep Factor other than 1 accounts for a non-routine sample size.
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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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Client: Arcadis Geraghty & Miller

Client ID: TP-PZ-04 **Site:** None

Project: MS BLUFFS/LA2656.01.1.3 **Project No.:** 2069996 **Sample Qu:**

Lab ID: 20524555 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 86474

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 05/30/07 **Received:** 05/31/07

Prep Factor: 1 **Prepared:** 06/01/07 **Analyzed:** 06/07/07 22:18 JAM

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		10.0	
1912-24-9	Atrazine	1	ND		10.0	
21725-46-2	Cyanazine	1	ND		10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		10.0	
100-02-7	4-Nitrophenol	1	ND		10.0	
87-86-5	Pentachlorophenol	1	ND		10.0	

6 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Client: Arcadis Geraghty & Miller

Client ID: TP-PZ-05 | **Site:** None

Project: MS BLUFFS/LA2656.01.1.3 | **Project No.:** 2069996 | **Sample Qu:**

Lab ID: 20524556 | **Matrix:** Water | **% Moisture:** n/a

Description: None | **Prep Level:** Water | **Batch:** 86474

Method: 8270 SVOAs Water | **Units:** ug/L | **Target List:** 8270_WL20

Collected: 05/30/07 | **Received:** 05/31/07

Prep Factor: 1 | **Prepared:** 06/01/07 | **Analyzed:** 06/07/07 22:45 JAM

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		10.0	
1912-24-9	Atrazine	1	ND		10.0	
21725-46-2	Cyanazine	1	ND		10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		10.0	
100-02-7	4-Nitrophenol	1	ND		10.0	
87-86-5	Pentachlorophenol	1	ND		10.0	

6 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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Client: Arcadis Geraghty & Miller

Client ID: TP-PZ-06 | **Site:** None

Project: MS BLUFFS/LA2656.01.1.3 | **Project No.:** 2069996 | **Sample Qu:**

Lab ID: 20524558 | **Matrix:** Water | **% Moisture:** n/a

Description: None | **Prep Level:** Water | **Batch:** 86474

Method: 8270 SVOAs Water | **Units:** ug/L | **Target List:** 8270_WL20

Collected: 05/30/07 | **Received:** 05/31/07

Prep Factor: 1 | **Prepared:** 06/01/07 | **Analyzed:** 06/07/07 23:12 JAM

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		10.0	
1912-24-9	Atrazine	10	223.	D1	100.	
21725-46-2	Cyanazine	1	ND		10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		10.0	
100-02-7	4-Nitrophenol	1	ND		10.0	
87-86-5	Pentachlorophenol	1	ND		10.0	

6 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
A Prep Factor other than 1 accounts for a non-routine sample size.
Reporting/Detection Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: TP-PZ-07 **Site:** None

Project: MS BLUFFS/LA2656.01.1.3 **Project No.:** 2069996 **Sample Qu:**

Lab ID: 20524559 **Matrix:** Water **% Moisture:** n/a

Description: None **Prep Level:** Water **Batch:** 86474

Method: 8270 SVOAs Water **Units:** ug/L **Target List:** 8270_WL20

Collected: 05/30/07 **Received:** 05/31/07

Prep Factor: 1 **Prepared:** 06/01/07 **Analyzed:** 06/07/07 23:41 JAM

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
98-86-2	Acetophenone	1	ND		10.0	
1912-24-9	Atrazine	1	ND		10.0	
21725-46-2	Cyanazine	1	ND		10.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		10.0	
100-02-7	4-Nitrophenol	1	ND		10.0	
87-86-5	Pentachlorophenol	1	ND		10.0	

6 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
A Prep Factor other than 1 accounts for a non-routine sample size.
Reporting/Detection Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit denotes an actual regulatory limit or a client-requested notification limit.

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Report of Quality Control

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Phone: 504.469.0333
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LELAP # 02006

Method: EPA 8270 **Project:** 2069996 **LCS:** 20524420 6/7/2007 7:59:00 PM

Batch: 86474 **MS:** 20523667 6/8/2007 4:57:00 PM

Units: ug/L **Original for MS:** 20523137 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
bis(2-Ethylhexyl)phthalate	50	52.25	105	50	1.17	42.1	42.79	82	83	2	30 - 154	16 - 145	20	
4-Nitrophenol	50	28.38	57	50	0.00	41.1	40.54	82	81	1	25 - 140	10 - 158	20	
Pentachlorophenol	50	30.94	62	50	0.00	41.75	40.92	84	82	2	32 - 133	24 - 147	20	

3 compound(s) reported

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* denotes recovery outside of QC limits.

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

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Report of Batch Surrogate Recovery

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Phone: 504.469.0333
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LELAP # 02006

Report: 2069996 **Batch: 86474**

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20523137	OQS	68	71	66	70	95	68		
20523665	BLANK	62	69	72	71	91	75		
20523666	LCS	64	70	78	64	93	89		
20523667	MS	66	70	77	64	93	75		
20523668	MSD	67	72	80	63	99	75		
20524419	BLANK	52	80	55	60	65	80		
20524420	LCS	54	62	40	44	61	76		
20524552	Sample	49	63	42	48	40	47		
20524553	Sample	57	72	47	56	50	71		
20524554	Sample	43	64	40	55	43	59		
20524555	Sample	30	36	26	28	29	34		
20524556	Sample	69	81	65	66	79	56		
20524558	Sample D1,G	110	76	70	83	76	90		
20524559	Sample	42	55	37	42	41	43		
QC limits:		25-133	36-108	10-109	21-120	15-113	17-130		

Sur 1: 2,4,6-Tribromophenol (S)
Sur 2: 2-Fluorobiphenyl (S)
Sur 3: 2-Fluorophenol (S)
Sur 4: Nitrobenzene-d5 (S)
Sur 5: Phenol-d5 (S)
Sur 6: Terphenyl-d14 (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

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Report of Method Blank

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Phone: 504.469.0333
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LELAP # 02006

Lab ID: 20524419

Description: 8270 SVOAs Water **Project No.:** 2069996

Method: EPA 8270 **Batch:** 86474 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 01-Jun-07 **Analyzed:** 06/07/07 19:30 JAM

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
83-32-9	Acenaphthene	1	ND		10.0
208-96-8	Acenaphthylene	1	ND		10.0
98-86-2	Acetophenone	1	ND		10.0
120-12-7	Anthracene	1	ND		10.0
1912-24-9	Atrazine	1	ND		10.0
56-55-3	Benzo(a)anthracene	1	ND		10.0
205-99-2	Benzo(b)fluoranthene	1	ND		10.0
207-08-9	Benzo(k)fluoranthene	1	ND		10.0
65-85-0	Benzoic acid	1	ND		10.0
191-24-2	Benzo(g,h,i)perylene	1	ND		10.0
50-32-8	Benzo(a)pyrene	1	ND		10.0
100-51-6	Benzyl alcohol	1	ND		10.0
101-55-3	4-Bromophenylphenyl ether	1	ND		10.0
85-68-7	Butylbenzylphthalate	1	ND		10.0
86-74-8	Carbazole	1	ND		10.0
59-50-7	4-Chloro-3-methylphenol	1	ND		10.0
106-47-8	4-Chloroaniline	1	ND		10.0
111-91-1	bis(2-Chloroethoxy)methane	1	ND		10.0
111-44-4	bis(2-Chloroethyl) ether	1	ND		10.0
91-58-7	2-Chloronaphthalene	1	ND		10.0
95-57-8	2-Chlorophenol	1	ND		10.0
7005-72-3	4-Chlorophenylphenyl ether	1	ND		10.0
218-01-9	Chrysene	1	ND		10.0
21725-46-2	Cyanazine	1	ND		10.0
53-70-3	Dibenz(a,h)anthracene	1	ND		10.0
132-64-9	Dibenzofuran	1	ND		10.0
95-50-1	1,2-Dichlorobenzene	1	ND		10.0
541-73-1	1,3-Dichlorobenzene	1	ND		10.0
106-46-7	1,4-Dichlorobenzene	1	ND		10.0
91-94-1	3,3'-Dichlorobenzidine	1	ND		10.0
120-83-2	2,4-Dichlorophenol	1	ND		10.0
84-66-2	Diethylphthalate	1	ND		10.0
105-67-9	2,4-Dimethylphenol	1	ND		10.0
131-11-3	Dimethylphthalate	1	ND		10.0
84-74-2	Di-n-butylphthalate	1	ND		10.0
534-52-1	4,6-Dinitro-2-methylphenol	1	ND		10.0

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ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270
Pennsylvania DEP (NELAC) 68-04202

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Report of Method Blank

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Lab ID: 20524419
Description: 8270 SVOAs Water **Project No.:** 2069996
Method: EPA 8270 **Batch:** 86474 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 01-Jun-07 **Analyzed:** 06/07/07 19:30 JAM

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
51-28-5	2,4-Dinitrophenol	1	ND		10.0
121-14-2	2,4-Dinitrotoluene	1	ND		10.0
606-20-2	2,6-Dinitrotoluene	1	ND		10.0
117-84-0	Di-n-octylphthalate	1	ND		10.0
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		10.0
206-44-0	Fluoranthene	1	ND		10.0
86-73-7	Fluorene	1	ND		10.0
87-68-3	Hexachloro-1,3-butadiene	1	ND		10.0
118-74-1	Hexachlorobenzene	1	ND		10.0
77-47-4	Hexachlorocyclopentadiene	1	ND		10.0
67-72-1	Hexachloroethane	1	ND		10.0
193-39-5	Indeno(1,2,3-cd)pyrene	1	ND		10.0
78-59-1	Isophorone	1	ND		10.0
91-57-6	2-Methylnaphthalene	1	ND		10.0
95-48-7	2-Methylphenol (o-Cresol)	1	ND		10.0
	3&4-Methylphenol	1	ND		20.0
91-20-3	Naphthalene	1	ND		10.0
88-74-4	2-Nitroaniline	1	ND		10.0
99-09-2	3-Nitroaniline	1	ND		10.0
100-01-6	4-Nitroaniline	1	ND		10.0
98-95-3	Nitrobenzene	1	ND		10.0
88-75-5	2-Nitrophenol	1	ND		10.0
100-02-7	4-Nitrophenol	1	ND		10.0
621-64-7	N-Nitroso-di-n-propylamine	1	ND		10.0
86-30-6	N-Nitrosodiphenylamine	1	ND	A10	10.0
108-60-1	2,2'-Oxybis(1-chloropropane)	1	ND		10.0
87-86-5	Pentachlorophenol	1	ND		10.0
85-01-8	Phenanthrene	1	ND		10.0
108-95-2	Phenol	1	ND		10.0
129-00-0	Pyrene	1	ND		10.0
120-82-1	1,2,4-Trichlorobenzene	1	ND		10.0
95-95-4	2,4,5-Trichlorophenol	1	ND		10.0
88-06-2	2,4,6-Trichlorophenol	1	ND		10.0

69 compound(s) reported

6/12/2007 09:18:25

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
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Report Qualifiers

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2069996

Analyte Qualifiers

Qualifier	Qualifier Description
A10	N-Nitrosodiphenylamine is reported as diphenylamine.
G1	Interferences are present which caused poor surrogate recovery.

General Qualifiers

Qualifier	Qualifier Description
D1	The analysis was performed at a dilution due to the high analyte concentration.

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ARCADIS

Laboratory Task Order No./P.O. No. _____ **CHAIN-OF-CUSTODY RECORD** Page ____ of ____

Project Number/Name LA2656.01-13

Project Location Vicksburg

Laboratory Pace

Project Manager D Escodé

Sampler(s)/Affiliation FT

2069996

ANALYSIS / METHOD / SIZE

1L Amber SVOA 4°C

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID							Remarks	Total
		5-30-07									
TP-PZ-01	L	1510		2						20524552	2
TP-PZ-02	L	1445		2						553	2
TP-PZ-03	L	1545		2						554	2
TP-PZ-04	L	1315		2						555	2
TP-PZ-05	L	1200		2						556	2
TP-PZ-06	L	1230		2						558	2
TP-PZ-07	L	1345		2						559	2

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers 14

Relinquished by:		Organization: ARCADIS	Date 5/30/07	Time 1255	Seal Intact?	
Received by:		Organization: PACE	Date 5/31/07	Time 1255	Yes No N/A	
Relinquished by:		Organization: PACE	Date 5/31/07	Time 1535	Seal Intact?	
Received by:		Organization: Pace	Date 5/31/07	Time 1535	Yes No (N/A)	

Special Instructions/Remarks: 2 coolers 4.0, 4.1

Delivery Method: ☐ In Person ☐ Common Carrier _____ SPECIFY ☑ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

ARCADIS

Laboratory Task Order No./P.O. No. _____ **CHAIN-OF-CUSTODY RECORD** Page ____ of ____

Project Number/Name LA2656.01.13

Project Location Vicksburg

Laboratory Pace

Project Manager D Escodé

Sampler(s)/Affiliation FT

2069996

ANALYSIS / METHOD / SIZE

1L Amb SVOA 4°C

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	1L Amb SVOA 4°C						Remarks	Total
		5-30-07									
TP-PZ-01	L	1510		2						20524552	2
TP-PZ-02	L	1445		2						553	2
TP-PZ-03	L	1545		2						554	2
TP-PZ-04	L	1315		2						555	2
TP-PZ-05	L	1200		2						556	2
TP-PZ-06	L	1230		2						558	2
TP-PZ-07	L	1345		2						559	2

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers 14

					Seal Intact?
Relinquished by:		Organization: ARCADIS	Date 5/30/07	Time 1255	
Received by:		Organization: Pace	Date 5/31/07	Time 1255	Yes No N/A
Relinquished by:		Organization: Pace	Date 5/31/07	Time 1535	Seal Intact?
Received by: MT Miller		Organization: Pace	Date 5/31/07	Time 1535	Yes No (N/A)

Special Instructions/Remarks:

2 coolers 4.0, 4.1

Delivery Method: ☐ In Person ☐ Common Carrier _____ SPECIFY ☑ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

April 07, 2008

David Escude'
Arcadis Geraghty & Miller
10352 Plaza Americana Dr.
Baton Rouge, LA 70816

RE: Project 2079932
Project ID: LA002656.1.13/MS BLUFFS

Dear David Escude':

Enclosed are the analytical results for sample(s) received by the laboratory on March 20, 2008. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerly,

Cindy Olavesen
cindy.olavesen@pacelabs.com

REPORT OF LABORATORY ANALYSIS

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Sample Cross Reference

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2079932

Client: Arcadis Geraghty & Miller

Project ID: LA002656.1.13/MS BLUFFS

Client Sample ID	Lab ID	Matrix	Collection Date/Time	Received Date/Time
MW-7	20597296	Water	18-Mar-08 14:37	20-Mar-08 10:30
MW-6	20597302	Water	18-Mar-08 16:10	20-Mar-08 10:30
MW-5	20597303	Water	18-Mar-08 17:26	20-Mar-08 10:30
MW-2	20597304	Water	19-Mar-08 09:49	20-Mar-08 10:30
MW-8	20597305	Water	19-Mar-08 11:10	20-Mar-08 10:30
MW-12C	20597306	Water	19-Mar-08 14:12	20-Mar-08 10:30
DUP-01	20597307	Water	19-Mar-08 00:00	20-Mar-08 10:30
RB-01	20597308	Water	19-Mar-08 14:45	20-Mar-08 10:30
FB-01	20597312	Water	19-Mar-08 14:30	20-Mar-08 10:30
TB-01	20597314	Water	18-Mar-08 00:00	20-Mar-08 10:30

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Project Narrative

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2079932

Sample Receipt Condition:

All samples were received in accordance with EPA protocol.

Holding Times:

All holding times were met.

Blanks:

All blank results were below reporting limits.

Laboratory Control Samples:

LCS recoveries outside of QC limits are qualified in the Report of Quality Control section.

Matrix Spikes and Duplicates:

MS or MSD recoveries outside of QC limits are qualified in the Report of Quality Control section.

Surrogates:

Surrogate recoveries outside of QC limits are qualified in the surrogate results section.

Pace Analytical Services, Inc.
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Phone: 504.469.0333
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LELAP # 02006

Project: 2079932

Analytical Method	Batch	Sample used for QC
EPA 8081	99474	Client sample MW-1C from project 2080021
EPA 8270	99555	Client sample MW-1C from project 2080021
EPA 8260	99537	Project sample MW-7

For the sample used as the original for the DUP or MS/MSD for the batch:

Project sample means a sample from this project was used.
Client sample means a sample from the same client but in a different project was used.
Batch sample means a sample from the a different client was used.

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Sample Results

Pace Analytical Services, Inc.
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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-7
Project: 2079932
Project ID: LA002656.1.13/MS BLUFFS
Site: None
Lab ID: 20597296
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99537
Method: EPA 8260

Collected: 18-Mar-08
Received: 20-Mar-08
Prepared: 25-Mar-08
Analyzed: 25-Mar-08 14:09 RMP

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
67-64-1	Acetone	1	A11	ND	10.0	5.90	
75-05-8	Acetonitrile	1		ND	100.	12.5	
107-02-8	Acrolein	1		ND	20.0	9.10	
107-13-1	Acrylonitrile	1		ND	20.0	4.90	
107-05-1	Allyl chloride	1		ND	10.0	1.56	
71-43-2	Benzene	1		ND	5.00	0.117	
75-27-4	Bromodichloromethane	1		ND	5.00	0.206	
75-25-2	Bromoform	1		ND	5.00	0.259	
74-83-9	Bromomethane	1		ND	5.00	1.94	
78-93-3	2-Butanone (MEK)	1	A11	ND	10.0	2.25	
75-15-0	Carbon disulfide	1		ND	5.00	0.257	
56-23-5	Carbon tetrachloride	1		ND	5.00	0.592	
108-90-7	Chlorobenzene	1		ND	5.00	0.119	
75-00-3	Chloroethane	1		ND	5.00	0.647	
67-66-3	Chloroform	1		ND	5.00	0.479	
74-87-3	Chloromethane	1		ND	5.00	0.305	
126-99-8	Chloroprene	1		ND	5.00	0.784	
96-12-8	1,2-Dibromo-3-chloropropane	1		ND	5.00	1.22	
124-48-1	Dibromochloromethane	1		ND	5.00	0.145	
106-93-4	1,2-Dibromoethane (EDB)	1		ND	5.00	0.669	
74-95-3	Dibromomethane	1		ND	5.00	1.39	
110-57-6	trans-1,4-Dichloro-2-butene	1		ND	5.00	1.86	
75-71-8	Dichlorodifluoromethane	1		ND	5.00	0.818	
75-34-3	1,1-Dichloroethane	1		ND	5.00	0.515	
107-06-2	1,2-Dichloroethane	1		ND	5.00	0.212	
75-35-4	1,1-Dichloroethene	1		ND	5.00	0.493	
156-60-5	trans-1,2-Dichloroethene	1		ND	5.00	0.733	
78-87-5	1,2-Dichloropropane	1		ND	5.00	0.328	
10061-01-5	cis-1,3-Dichloropropene	1		ND	5.00	0.0869	
10061-02-6	trans-1,3-Dichloropropene	1		ND	5.00	0.216	

Protocol 4/7/2008 15:56:41

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

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Sample Results

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-7
Project ID: LA002656.1.13/MS BLUFFS
Lab ID: 20597296
Description: None
Method: EPA 8260

Project: 2079932
Site: None
Matrix: Water
% Moisture: n/a
Prep Level: Water
Batch: 99537

Collected: 18-Mar-08
Received: 20-Mar-08
Prepared: 25-Mar-08
Analyzed: 25-Mar-08 14:09 RMP

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
123-91-1	1,4-Dioxane (p-Dioxane)	1		ND	250.	16.8	
100-41-4	Ethylbenzene	1		ND	5.00	0.119	
97-63-2	Ethyl methacrylate	1		ND	10.0	0.475	
591-78-6	2-Hexanone	1		ND	10.0	0.468	
74-88-4	Iodomethane	1		ND	5.00	0.621	
78-83-1	Isobutanol	1		ND	250.	18.7	
126-98-7	Methacrylonitrile	1		ND	100.	16.2	
75-09-2	Methylene chloride	1	A11	ND	5.00	0.710	
80-62-6	Methyl methacrylate	1		ND	10.0	0.997	
108-10-1	4-Methyl-2-pentanone (MIBK)	1		ND	10.0	0.872	
107-12-0	Propionitrile	1		ND	20.0	6.35	
100-42-5	Styrene	1		ND	5.00	0.0763	
630-20-6	1,1,1,2-Tetrachloroethane	1		ND	5.00	0.291	
79-34-5	1,1,2,2-Tetrachloroethane	1		ND	5.00	0.238	
127-18-4	Tetrachloroethene	1		ND	5.00	0.162	
108-88-3	Toluene	1		ND	5.00	0.131	
71-55-6	1,1,1-Trichloroethane	1		ND	5.00	0.609	
79-00-5	1,1,2-Trichloroethane	1		ND	5.00	0.328	
79-01-6	Trichloroethene	1		ND	5.00	0.168	
75-69-4	Trichlorofluoromethane	1		ND	5.00	1.57	
96-18-4	1,2,3-Trichloropropane	1		ND	5.00	1.49	
95-63-6	1,2,4-Trimethylbenzene	1		ND	5.00	0.0844	
108-67-8	1,3,5-Trimethylbenzene	1		ND	5.00	0.0614	
108-05-4	Vinyl acetate	1		ND	10.0	0.686	
75-01-4	Vinyl chloride	1		ND	5.00	0.463	
	m&p-Xylene	1		ND	10.0	0.151	
95-47-6	o-Xylene	1		ND	5.00	0.142	

57 compound(s) reported

Protocol 4/7/2008 15:56:41

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Sample Results

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-7
Project: 2079932
Project ID: LA002656.1.13/MS BLUFFS
Site: None
Lab ID: 20597296
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99415
Method: EPA 8270

Collected: 18-Mar-08
Received: 20-Mar-08
Prepared: 21-Mar-08
Analyzed: 26-Mar-08 22:03 JAM

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
98-86-2	Acetophenone	1		ND	10.0	1.42	
1912-24-9	Atrazine	1		ND	10.0		
21725-46-2	Cyanazine	1		ND	10.0		
88-85-7	Dinoseb	1		ND	10.0	1.20	
117-81-7	bis(2-Ethylhexyl)phthalate	1	A25	ND	10.0	8.62	
100-02-7	4-Nitrophenol	1		ND	10.0	1.33	
87-86-5	Pentachlorophenol	1		ND	10.0	1.37	

7 compound(s) reported

Protocol 4/7/2008 15:56:41

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-6
Project: 2079932
Project ID: LA002656.1.13/MS BLUFFS
Site: None
Lab ID: 20597302
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99537
Method: EPA 8260

Collected: 18-Mar-08
Received: 20-Mar-08
Prepared: 25-Mar-08
Analyzed: 25-Mar-08 15:10 RMP

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
67-64-1	Acetone	1	A11	ND	10.0	5.90	
75-05-8	Acetonitrile	1		ND	100.	12.5	
107-02-8	Acrolein	1		ND	20.0	9.10	
107-13-1	Acrylonitrile	1		ND	20.0	4.90	
107-05-1	Allyl chloride	1		ND	10.0	1.56	
71-43-2	Benzene	1		ND	5.00	0.117	
75-27-4	Bromodichloromethane	1		ND	5.00	0.206	
75-25-2	Bromoform	1		ND	5.00	0.259	
74-83-9	Bromomethane	1		ND	5.00	1.94	
78-93-3	2-Butanone (MEK)	1	A11	ND	10.0	2.25	
75-15-0	Carbon disulfide	1		ND	5.00	0.257	
56-23-5	Carbon tetrachloride	1		ND	5.00	0.592	
108-90-7	Chlorobenzene	1		ND	5.00	0.119	
75-00-3	Chloroethane	1		ND	5.00	0.647	
67-66-3	Chloroform	1		ND	5.00	0.479	
74-87-3	Chloromethane	1		ND	5.00	0.305	
126-99-8	Chloroprene	1		ND	5.00	0.784	
96-12-8	1,2-Dibromo-3-chloropropane	1		ND	5.00	1.22	
124-48-1	Dibromochloromethane	1		ND	5.00	0.145	
106-93-4	1,2-Dibromoethane (EDB)	1		ND	5.00	0.669	
74-95-3	Dibromomethane	1		ND	5.00	1.39	
110-57-6	trans-1,4-Dichloro-2-butene	1		ND	5.00	1.86	
75-71-8	Dichlorodifluoromethane	1		ND	5.00	0.818	
75-34-3	1,1-Dichloroethane	1		ND	5.00	0.515	
107-06-2	1,2-Dichloroethane	1		ND	5.00	0.212	
75-35-4	1,1-Dichloroethene	1		ND	5.00	0.493	
156-60-5	trans-1,2-Dichloroethene	1		ND	5.00	0.733	
78-87-5	1,2-Dichloropropane	1		ND	5.00	0.328	
10061-01-5	cis-1,3-Dichloropropene	1		ND	5.00	0.0869	
10061-02-6	trans-1,3-Dichloropropene	1		ND	5.00	0.216	

Protocol 4/7/2008 15:56:41

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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Louisiana Dept. of Environmental Quality (LELAP) - 02006
Louisiana Dept. of Health and Hospitals / Drinking Water - LA050004
Arkansas Dept. of Environmental Quality - LA050004
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environmental - E-10266
Pennsylvania DEP (NELAC) 68-04202
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Sample Results

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-6
Project: 2079932
Project ID: LA002656.1.13/MS BLUFFS
Site: None
Lab ID: 20597302
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99537
Method: EPA 8260

Collected: 18-Mar-08
Received: 20-Mar-08
Prepared: 25-Mar-08
Analyzed: 25-Mar-08 15:10 RMP

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
123-91-1	1,4-Dioxane (p-Dioxane)	1		ND	250.	16.8	
100-41-4	Ethylbenzene	1		ND	5.00	0.119	
97-63-2	Ethyl methacrylate	1		ND	10.0	0.475	
591-78-6	2-Hexanone	1		ND	10.0	0.468	
74-88-4	Iodomethane	1		ND	5.00	0.621	
78-83-1	Isobutanol	1		ND	250.	18.7	
126-98-7	Methacrylonitrile	1		ND	100.	16.2	
75-09-2	Methylene chloride	1	A11	ND	5.00	0.710	
80-62-6	Methyl methacrylate	1		ND	10.0	0.997	
108-10-1	4-Methyl-2-pentanone (MIBK)	1		ND	10.0	0.872	
107-12-0	Propionitrile	1		ND	20.0	6.35	
100-42-5	Styrene	1		ND	5.00	0.0763	
630-20-6	1,1,1,2-Tetrachloroethane	1		ND	5.00	0.291	
79-34-5	1,1,2,2-Tetrachloroethane	1		ND	5.00	0.238	
127-18-4	Tetrachloroethene	1		ND	5.00	0.162	
108-88-3	Toluene	1		ND	5.00	0.131	
71-55-6	1,1,1-Trichloroethane	1		ND	5.00	0.609	
79-00-5	1,1,2-Trichloroethane	1		ND	5.00	0.328	
79-01-6	Trichloroethene	1		ND	5.00	0.168	
75-69-4	Trichlorofluoromethane	1		ND	5.00	1.57	
96-18-4	1,2,3-Trichloropropane	1		ND	5.00	1.49	
95-63-6	1,2,4-Trimethylbenzene	1		ND	5.00	0.0844	
108-67-8	1,3,5-Trimethylbenzene	1		ND	5.00	0.0614	
108-05-4	Vinyl acetate	1		ND	10.0	0.686	
75-01-4	Vinyl chloride	1		ND	5.00	0.463	
	m&p-Xylene	1		ND	10.0	0.151	
95-47-6	o-Xylene	1		ND	5.00	0.142	

57 compound(s) reported

Protocol 4/7/2008 15:56:41

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-6
Project: 2079932
Project ID: LA002656.1.13/MS BLUFFS
Site: None
Lab ID: 20597302
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99415
Method: EPA 8270

Collected: 18-Mar-08
Received: 20-Mar-08
Prepared: 21-Mar-08
Analyzed: 26-Mar-08 22:29 JAM

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
98-86-2	Acetophenone	1		ND	10.0	1.42	
1912-24-9	Atrazine	1		ND	10.0		
21725-46-2	Cyanazine	1		ND	10.0		
88-85-7	Dinoseb	1		ND	10.0	1.20	
117-81-7	bis(2-Ethylhexyl)phthalate	1	A25	ND	10.0	8.62	
100-02-7	4-Nitrophenol	1		ND	10.0	1.33	
87-86-5	Pentachlorophenol	1		ND	10.0	1.37	

7 compound(s) reported

Protocol 4/7/2008 15:56:41

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-5
Project: 2079932
Project ID: LA002656.1.13/MS BLUFFS
Site: None
Lab ID: 20597303
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99537
Method: EPA 8260

Collected: 18-Mar-08
Received: 20-Mar-08
Prepared: 25-Mar-08
Analyzed: 25-Mar-08 15:30 RMP

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
67-64-1	Acetone	1	A11	ND	10.0	5.90	
75-05-8	Acetonitrile	1		ND	100.	12.5	
107-02-8	Acrolein	1		ND	20.0	9.10	
107-13-1	Acrylonitrile	1		ND	20.0	4.90	
107-05-1	Allyl chloride	1		ND	10.0	1.56	
71-43-2	Benzene	1		ND	5.00	0.117	
75-27-4	Bromodichloromethane	1		ND	5.00	0.206	
75-25-2	Bromoform	1		ND	5.00	0.259	
74-83-9	Bromomethane	1		ND	5.00	1.94	
78-93-3	2-Butanone (MEK)	1	A11	ND	10.0	2.25	
75-15-0	Carbon disulfide	1		ND	5.00	0.257	
56-23-5	Carbon tetrachloride	1		ND	5.00	0.592	
108-90-7	Chlorobenzene	1		ND	5.00	0.119	
75-00-3	Chloroethane	1		ND	5.00	0.647	
67-66-3	Chloroform	1		ND	5.00	0.479	
74-87-3	Chloromethane	1		ND	5.00	0.305	
126-99-8	Chloroprene	1		ND	5.00	0.784	
96-12-8	1,2-Dibromo-3-chloropropane	1		ND	5.00	1.22	
124-48-1	Dibromochloromethane	1		ND	5.00	0.145	
106-93-4	1,2-Dibromoethane (EDB)	1		ND	5.00	0.669	
74-95-3	Dibromomethane	1		ND	5.00	1.39	
110-57-6	trans-1,4-Dichloro-2-butene	1		ND	5.00	1.86	
75-71-8	Dichlorodifluoromethane	1		ND	5.00	0.818	
75-34-3	1,1-Dichloroethane	1		ND	5.00	0.515	
107-06-2	1,2-Dichloroethane	1		ND	5.00	0.212	
75-35-4	1,1-Dichloroethene	1		ND	5.00	0.493	
156-60-5	trans-1,2-Dichloroethene	1		ND	5.00	0.733	
78-87-5	1,2-Dichloropropane	1		ND	5.00	0.328	
10061-01-5	cis-1,3-Dichloropropene	1		ND	5.00	0.0869	
10061-02-6	trans-1,3-Dichloropropene	1		ND	5.00	0.216	

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-5
Project ID: LA002656.1.13/MS BLUFFS
Lab ID: 20597303
Description: None
Method: EPA 8260

Project: 2079932
Site: None
Matrix: Water
% Moisture: n/a
Prep Level: Water
Batch: 99537

Collected: 18-Mar-08
Received: 20-Mar-08
Prepared: 25-Mar-08
Analyzed: 25-Mar-08 15:30 RMP

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
123-91-1	1,4-Dioxane (p-Dioxane)	1		ND	250.	16.8	
100-41-4	Ethylbenzene	1		ND	5.00	0.119	
97-63-2	Ethyl methacrylate	1		ND	10.0	0.475	
591-78-6	2-Hexanone	1		ND	10.0	0.468	
74-88-4	Iodomethane	1		ND	5.00	0.621	
78-83-1	Isobutanol	1		ND	250.	18.7	
126-98-7	Methacrylonitrile	1		ND	100.	16.2	
75-09-2	Methylene chloride	1	A11	ND	5.00	0.710	
80-62-6	Methyl methacrylate	1		ND	10.0	0.997	
108-10-1	4-Methyl-2-pentanone (MIBK)	1		ND	10.0	0.872	
107-12-0	Propionitrile	1		ND	20.0	6.35	
100-42-5	Styrene	1		ND	5.00	0.0763	
630-20-6	1,1,1,2-Tetrachloroethane	1		ND	5.00	0.291	
79-34-5	1,1,2,2-Tetrachloroethane	1		ND	5.00	0.238	
127-18-4	Tetrachloroethene	1		ND	5.00	0.162	
108-88-3	Toluene	1		ND	5.00	0.131	
71-55-6	1,1,1-Trichloroethane	1		ND	5.00	0.609	
79-00-5	1,1,2-Trichloroethane	1		ND	5.00	0.328	
79-01-6	Trichloroethene	1		ND	5.00	0.168	
75-69-4	Trichlorofluoromethane	1		ND	5.00	1.57	
96-18-4	1,2,3-Trichloropropane	1		ND	5.00	1.49	
95-63-6	1,2,4-Trimethylbenzene	1		ND	5.00	0.0844	
108-67-8	1,3,5-Trimethylbenzene	1		ND	5.00	0.0614	
108-05-4	Vinyl acetate	1		ND	10.0	0.686	
75-01-4	Vinyl chloride	1		ND	5.00	0.463	
	m&p-Xylene	1		ND	10.0	0.151	
95-47-6	o-Xylene	1		ND	5.00	0.142	

57 compound(s) reported

Protocol 4/7/2008 15:56:41

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-5
Project ID: LA002656.1.13/MS BLUFFS
Lab ID: 20597303
Description: None
Method: EPA 8270

Project: 2079932
Site: None
Matrix: Water
Prep Level: Water

% Moisture: n/a
Batch: 99415

Collected: 18-Mar-08
Received: 20-Mar-08
Prepared: 21-Mar-08
Analyzed: 26-Mar-08 22:55 JAM

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
98-86-2	Acetophenone	1		ND	10.0	1.42	
1912-24-9	Atrazine	1		ND	10.0		
21725-46-2	Cyanazine	1		ND	10.0		
88-85-7	Dinoseb	1		ND	10.0	1.20	
117-81-7	bis(2-Ethylhexyl)phthalate	1	A25	ND	10.0	8.62	
100-02-7	4-Nitrophenol	1		ND	10.0	1.33	
87-86-5	Pentachlorophenol	1		ND	10.0	1.37	

7 compound(s) reported

Protocol 4/7/2008 15:56:41

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-2
Project: 2079932
Project ID: LA002656.1.13/MS BLUFFS
Site: None
Lab ID: 20597304
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99537
Method: EPA 8260

Collected: 19-Mar-08
Received: 20-Mar-08
Prepared: 25-Mar-08
Analyzed: 25-Mar-08 15:50 RMP

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
67-64-1	Acetone	1	A11	ND	10.0	5.90	
75-05-8	Acetonitrile	1		ND	100.	12.5	
107-02-8	Acrolein	1		ND	20.0	9.10	
107-13-1	Acrylonitrile	1		ND	20.0	4.90	
107-05-1	Allyl chloride	1		ND	10.0	1.56	
71-43-2	Benzene	1		ND	5.00	0.117	
75-27-4	Bromodichloromethane	1		ND	5.00	0.206	
75-25-2	Bromoform	1		ND	5.00	0.259	
74-83-9	Bromomethane	1		ND	5.00	1.94	
78-93-3	2-Butanone (MEK)	1	A11	ND	10.0	2.25	
75-15-0	Carbon disulfide	1		ND	5.00	0.257	
56-23-5	Carbon tetrachloride	1		ND	5.00	0.592	
108-90-7	Chlorobenzene	1		ND	5.00	0.119	
75-00-3	Chloroethane	1		ND	5.00	0.647	
67-66-3	Chloroform	1		ND	5.00	0.479	
74-87-3	Chloromethane	1		ND	5.00	0.305	
126-99-8	Chloroprene	1		ND	5.00	0.784	
96-12-8	1,2-Dibromo-3-chloropropane	1		ND	5.00	1.22	
124-48-1	Dibromochloromethane	1		ND	5.00	0.145	
106-93-4	1,2-Dibromoethane (EDB)	1		ND	5.00	0.669	
74-95-3	Dibromomethane	1		ND	5.00	1.39	
110-57-6	trans-1,4-Dichloro-2-butene	1		ND	5.00	1.86	
75-71-8	Dichlorodifluoromethane	1		ND	5.00	0.818	
75-34-3	1,1-Dichloroethane	1		ND	5.00	0.515	
107-06-2	1,2-Dichloroethane	1		ND	5.00	0.212	
75-35-4	1,1-Dichloroethene	1		ND	5.00	0.493	
156-60-5	trans-1,2-Dichloroethene	1		ND	5.00	0.733	
78-87-5	1,2-Dichloropropane	1		ND	5.00	0.328	
10061-01-5	cis-1,3-Dichloropropene	1		ND	5.00	0.0869	
10061-02-6	trans-1,3-Dichloropropene	1		ND	5.00	0.216	

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-2
Project: 2079932
Project ID: LA002656.1.13/MS BLUFFS
Site: None
Lab ID: 20597304
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99537
Method: EPA 8260

Collected: 19-Mar-08
Received: 20-Mar-08
Prepared: 25-Mar-08
Analyzed: 25-Mar-08 15:50 RMP

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
123-91-1	1,4-Dioxane (p-Dioxane)	1		ND	250.	16.8	
100-41-4	Ethylbenzene	1		ND	5.00	0.119	
97-63-2	Ethyl methacrylate	1		ND	10.0	0.475	
591-78-6	2-Hexanone	1		ND	10.0	0.468	
74-88-4	Iodomethane	1		ND	5.00	0.621	
78-83-1	Isobutanol	1		ND	250.	18.7	
126-98-7	Methacrylonitrile	1		ND	100.	16.2	
75-09-2	Methylene chloride	1	A11	ND	5.00	0.710	
80-62-6	Methyl methacrylate	1		ND	10.0	0.997	
108-10-1	4-Methyl-2-pentanone (MIBK)	1		ND	10.0	0.872	
107-12-0	Propionitrile	1		ND	20.0	6.35	
100-42-5	Styrene	1		ND	5.00	0.0763	
630-20-6	1,1,1,2-Tetrachloroethane	1		ND	5.00	0.291	
79-34-5	1,1,2,2-Tetrachloroethane	1		ND	5.00	0.238	
127-18-4	Tetrachloroethene	1		ND	5.00	0.162	
108-88-3	Toluene	1		ND	5.00	0.131	
71-55-6	1,1,1-Trichloroethane	1		ND	5.00	0.609	
79-00-5	1,1,2-Trichloroethane	1		ND	5.00	0.328	
79-01-6	Trichloroethene	1		0.650 J	5.00	0.168	
75-69-4	Trichlorofluoromethane	1		ND	5.00	1.57	
96-18-4	1,2,3-Trichloropropane	1		ND	5.00	1.49	
95-63-6	1,2,4-Trimethylbenzene	1		ND	5.00	0.0844	
108-67-8	1,3,5-Trimethylbenzene	1		ND	5.00	0.0614	
108-05-4	Vinyl acetate	1		ND	10.0	0.686	
75-01-4	Vinyl chloride	1		ND	5.00	0.463	
	m&p-Xylene	1		ND	10.0	0.151	
95-47-6	o-Xylene	1		ND	5.00	0.142	

57 compound(s) reported

Protocol 4/7/2008 15:56:41

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Louisiana Dept. of Environmental Quality (LELAP) - 02006
Louisiana Dept. of Health and Hospitals / Drinking Water - LA050004
Arkansas Dept. of Environmental Quality - LA050004
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environmental - E-10266
Pennsylvania DEP (NELAC) 68-04202
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Sample Results

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-2
Project: 2079932
Project ID: LA002656.1.13/MS BLUFFS
Site: None
Lab ID: 20597304
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99415
Method: EPA 8270

Collected: 19-Mar-08
Received: 20-Mar-08
Prepared: 21-Mar-08
Analyzed: 26-Mar-08 23:21 JAM

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
98-86-2	Acetophenone	1		ND	10.0	1.42	
1912-24-9	Atrazine	1		ND	10.0		
21725-46-2	Cyanazine	1		ND	10.0		
88-85-7	Dinoseb	1		ND	10.0	1.20	
117-81-7	bis(2-Ethylhexyl)phthalate	1	A25	ND	10.0	8.62	
100-02-7	4-Nitrophenol	1		ND	10.0	1.33	
87-86-5	Pentachlorophenol	1		ND	10.0	1.37	

7 compound(s) reported

Protocol 4/7/2008 15:56:41

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-8
Project: 2079932
Project ID: LA002656.1.13/MS BLUFFS
Site: None
Lab ID: 20597305
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99537
Method: EPA 8260

Collected: 19-Mar-08
Received: 20-Mar-08
Prepared: 25-Mar-08
Analyzed: 25-Mar-08 16:10 RMP

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
67-64-1	Acetone	1	A11	ND	10.0	5.90	
75-05-8	Acetonitrile	1		ND	100.	12.5	
107-02-8	Acrolein	1		ND	20.0	9.10	
107-13-1	Acrylonitrile	1		ND	20.0	4.90	
107-05-1	Allyl chloride	1		ND	10.0	1.56	
71-43-2	Benzene	1		ND	5.00	0.117	
75-27-4	Bromodichloromethane	1		ND	5.00	0.206	
75-25-2	Bromoform	1		ND	5.00	0.259	
74-83-9	Bromomethane	1		ND	5.00	1.94	
78-93-3	2-Butanone (MEK)	1	A11	ND	10.0	2.25	
75-15-0	Carbon disulfide	1		ND	5.00	0.257	
56-23-5	Carbon tetrachloride	1		ND	5.00	0.592	
108-90-7	Chlorobenzene	1		ND	5.00	0.119	
75-00-3	Chloroethane	1		ND	5.00	0.647	
67-66-3	Chloroform	1		ND	5.00	0.479	
74-87-3	Chloromethane	1		ND	5.00	0.305	
126-99-8	Chloroprene	1		ND	5.00	0.784	
96-12-8	1,2-Dibromo-3-chloropropane	1		ND	5.00	1.22	
124-48-1	Dibromochloromethane	1		ND	5.00	0.145	
106-93-4	1,2-Dibromoethane (EDB)	1		ND	5.00	0.669	
74-95-3	Dibromomethane	1		ND	5.00	1.39	
110-57-6	trans-1,4-Dichloro-2-butene	1		ND	5.00	1.86	
75-71-8	Dichlorodifluoromethane	1		ND	5.00	0.818	
75-34-3	1,1-Dichloroethane	1		ND	5.00	0.515	
107-06-2	1,2-Dichloroethane	1		ND	5.00	0.212	
75-35-4	1,1-Dichloroethene	1		ND	5.00	0.493	
156-60-5	trans-1,2-Dichloroethene	1		ND	5.00	0.733	
78-87-5	1,2-Dichloropropane	1		ND	5.00	0.328	
10061-01-5	cis-1,3-Dichloropropene	1		ND	5.00	0.0869	
10061-02-6	trans-1,3-Dichloropropene	1		ND	5.00	0.216	

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-8
Project: 2079932
Project ID: LA002656.1.13/MS BLUFFS
Site: None
Lab ID: 20597305
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99537
Method: EPA 8260

Collected: 19-Mar-08
Received: 20-Mar-08
Prepared: 25-Mar-08
Analyzed: 25-Mar-08 16:10 RMP

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
123-91-1	1,4-Dioxane (p-Dioxane)	1		ND	250.	16.8	
100-41-4	Ethylbenzene	1		ND	5.00	0.119	
97-63-2	Ethyl methacrylate	1		ND	10.0	0.475	
591-78-6	2-Hexanone	1		ND	10.0	0.468	
74-88-4	Iodomethane	1		ND	5.00	0.621	
78-83-1	Isobutanol	1		ND	250.	18.7	
126-98-7	Methacrylonitrile	1		ND	100.	16.2	
75-09-2	Methylene chloride	1	A11	ND	5.00	0.710	
80-62-6	Methyl methacrylate	1		ND	10.0	0.997	
108-10-1	4-Methyl-2-pentanone (MIBK)	1		ND	10.0	0.872	
107-12-0	Propionitrile	1		ND	20.0	6.35	
100-42-5	Styrene	1		ND	5.00	0.0763	
630-20-6	1,1,1,2-Tetrachloroethane	1		ND	5.00	0.291	
79-34-5	1,1,2,2-Tetrachloroethane	1		ND	5.00	0.238	
127-18-4	Tetrachloroethene	1		ND	5.00	0.162	
108-88-3	Toluene	1		ND	5.00	0.131	
71-55-6	1,1,1-Trichloroethane	1		ND	5.00	0.609	
79-00-5	1,1,2-Trichloroethane	1		ND	5.00	0.328	
79-01-6	Trichloroethene	1		ND	5.00	0.168	
75-69-4	Trichlorofluoromethane	1		ND	5.00	1.57	
96-18-4	1,2,3-Trichloropropane	1		ND	5.00	1.49	
95-63-6	1,2,4-Trimethylbenzene	1		ND	5.00	0.0844	
108-67-8	1,3,5-Trimethylbenzene	1		ND	5.00	0.0614	
108-05-4	Vinyl acetate	1		ND	10.0	0.686	
75-01-4	Vinyl chloride	1		1.35 J	5.00	0.463	
	m&p-Xylene	1		ND	10.0	0.151	
95-47-6	o-Xylene	1		ND	5.00	0.142	

57 compound(s) reported

Protocol 4/7/2008 15:56:41

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-8
Project: 2079932
Project ID: LA002656.1.13/MS BLUFFS
Site: None
Lab ID: 20597305
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99415
Method: EPA 8270

Collected: 19-Mar-08
Received: 20-Mar-08
Prepared: 21-Mar-08
Analyzed: 26-Mar-08 23:47 JAM

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
98-86-2	Acetophenone	1		ND	10.0	1.42	
1912-24-9	Atrazine	1		ND	10.0		
21725-46-2	Cyanazine	1		ND	10.0		
88-85-7	Dinoseb	1		ND	10.0	1.20	
117-81-7	bis(2-Ethylhexyl)phthalate	1	A25	ND	10.0	8.62	
100-02-7	4-Nitrophenol	1		ND	10.0	1.33	
87-86-5	Pentachlorophenol	1		ND	10.0	1.37	

7 compound(s) reported

Protocol 4/7/2008 15:56:41

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-12C
Project: 2079932
Project ID: LA002656.1.13/MS BLUFFS
Site: None
Lab ID: 20597306
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99537
Method: EPA 8260

Collected: 19-Mar-08
Received: 20-Mar-08
Prepared: 26-Mar-08
Analyzed: 26-Mar-08 13:05 RMP

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result		Reporting Limit	MDL	Reg Limit
67-64-1	Acetone	50	D7	ND		500.	295.	
75-05-8	Acetonitrile	50	D7	ND		5000	623.	
107-02-8	Acrolein	50	D7	ND		1000	455.	
107-13-1	Acrylonitrile	50	D7	ND		1000	245.	
107-05-1	Allyl chloride	50	D7	ND		500.	78.0	
71-43-2	Benzene	50	D7	ND		250.	5.84	
75-27-4	Bromodichloromethane	50	D7	ND		250.	10.3	
75-25-2	Bromoform	50	D7	ND		250.	13.0	
74-83-9	Bromomethane	50	D7	ND		250.	96.8	
78-93-3	2-Butanone (MEK)	50	D7	ND		500.	112.	
75-15-0	Carbon disulfide	50	D7	ND		250.	12.8	
56-23-5	Carbon tetrachloride	50	D7	8840		250.	29.6	
108-90-7	Chlorobenzene	50	D7	ND		250.	5.94	
75-00-3	Chloroethane	50	D7	ND		250.	32.3	
67-66-3	Chloroform	50	D7	2250		250.	24.0	
74-87-3	Chloromethane	50	D7	ND		250.	15.3	
126-99-8	Chloroprene	50	D7	ND		250.	39.2	
96-12-8	1,2-Dibromo-3-chloropropane	50	D7	ND		250.	61.0	
124-48-1	Dibromochloromethane	50	D7	ND		250.	7.27	
106-93-4	1,2-Dibromoethane (EDB)	50	D7	ND		250.	33.4	
74-95-3	Dibromomethane	50	D7	ND		250.	69.3	
110-57-6	trans-1,4-Dichloro-2-butene	50	D7	ND		250.	93.2	
75-71-8	Dichlorodifluoromethane	50	D7	ND		250.	40.9	
75-34-3	1,1-Dichloroethane	50	D7	ND		250.	25.7	
107-06-2	1,2-Dichloroethane	50	D7	65.5	J	250.	10.6	
75-35-4	1,1-Dichloroethene	50	D7	ND		250.	24.6	
156-60-5	trans-1,2-Dichloroethene	50	D7	ND		250.	36.7	
78-87-5	1,2-Dichloropropane	50	D7	ND		250.	16.4	
10061-01-5	cis-1,3-Dichloropropene	50	D7	ND		250.	4.34	
10061-02-6	trans-1,3-Dichloropropene	50	D7	ND		250.	10.8	

Protocol 4/7/2008 15:56:41

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-12C
Project: 2079932
Project ID: LA002656.1.13/MS BLUFFS
Site: None
Lab ID: 20597306
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99537
Method: EPA 8260

Collected: 19-Mar-08
Received: 20-Mar-08
Prepared: 26-Mar-08
Analyzed: 26-Mar-08 13:05 RMP

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result		Reporting Limit	MDL	Reg Limit
123-91-1	1,4-Dioxane (p-Dioxane)	50	D7	ND		12500	842.	
100-41-4	Ethylbenzene	50	D7	ND		250.	5.97	
97-63-2	Ethyl methacrylate	50	D7	ND		500.	23.8	
591-78-6	2-Hexanone	50	D7	ND		500.	23.4	
74-88-4	Iodomethane	50	D7	ND		250.	31.0	
78-83-1	Isobutanol	50	D7	ND		12500	934.	
126-98-7	Methacrylonitrile	50	D7	ND		5000	812.	
75-09-2	Methylene chloride	50	D7	ND		250.	35.5	
80-62-6	Methyl methacrylate	50	D7	ND		500.	49.9	
108-10-1	4-Methyl-2-pentanone (MIBK)	50	D7	ND		500.	43.6	
107-12-0	Propionitrile	50	D7	ND		1000	317.	
100-42-5	Styrene	50	D7	ND		250.	3.82	
630-20-6	1,1,1,2-Tetrachloroethane	50	D7	ND		250.	14.6	
79-34-5	1,1,2,2-Tetrachloroethane	50	D7	ND		250.	11.9	
127-18-4	Tetrachloroethene	50	D7	30.5	J	250.	8.12	
108-88-3	Toluene	50	D7	ND		250.	6.54	
71-55-6	1,1,1-Trichloroethane	50	D7	ND		250.	30.5	
79-00-5	1,1,2-Trichloroethane	50	D7	39.5	J	250.	16.4	
79-01-6	Trichloroethene	50	D7	28.5	J	250.	8.42	
75-69-4	Trichlorofluoromethane	50	D7	ND		250.	78.6	
96-18-4	1,2,3-Trichloropropane	50	D7	ND		250.	74.4	
95-63-6	1,2,4-Trimethylbenzene	50	D7	ND		250.	4.22	
108-67-8	1,3,5-Trimethylbenzene	50	D7	ND		250.	3.07	
108-05-4	Vinyl acetate	50	D7	ND		500.	34.3	
75-01-4	Vinyl chloride	50	D7	ND		250.	23.2	
	m&p-Xylene	50	D7	ND		500.	7.56	
95-47-6	o-Xylene	50	D7	ND		250.	7.08	

57 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-12C
Project: 2079932
Project ID: LA002656.1.13/MS BLUFFS
Site: None
Lab ID: 20597306
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99415
Method: EPA 8270

Collected: 19-Mar-08
Received: 20-Mar-08
Prepared: 21-Mar-08
Analyzed: 27-Mar-08 00:13 JAM

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
98-86-2	Acetophenone	1		ND	10.0	1.42	
1912-24-9	Atrazine	1		ND	10.0		
21725-46-2	Cyanazine	1		ND	10.0		
88-85-7	Dinoseb	20	D1	686.	200.	24.0	
117-81-7	bis(2-Ethylhexyl)phthalate	1	A25	ND	10.0	8.62	
100-02-7	4-Nitrophenol	1		ND	10.0	1.33	
87-86-5	Pentachlorophenol	1		ND	10.0	1.37	

7 compound(s) reported

Protocol 4/7/2008 15:56:41

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MDL denotes method detection limit

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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: DUP-01
Project: 2079932
Project ID: LA002656.1.13/MS BLUFFS
Site: None
Lab ID: 20597307
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99537
Method: EPA 8260

Collected: 19-Mar-08
Received: 20-Mar-08
Prepared: 26-Mar-08
Analyzed: 26-Mar-08 13:25 RMP

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result		Reporting Limit	MDL	Reg Limit
67-64-1	Acetone	50	D7,M1	ND		500.	295.	
75-05-8	Acetonitrile	50	D7,M1	ND		5000	623.	
107-02-8	Acrolein	50	D7,M1	ND		1000	455.	
107-13-1	Acrylonitrile	50	D7,M1	ND		1000	245.	
107-05-1	Allyl chloride	50	D7,M1	ND		500.	78.0	
71-43-2	Benzene	50	D7,M1	ND		250.	5.84	
75-27-4	Bromodichloromethane	50	D7,M1	ND		250.	10.3	
75-25-2	Bromoform	50	D7,M1	ND		250.	13.0	
74-83-9	Bromomethane	50	D7,M1	ND		250.	96.8	
78-93-3	2-Butanone (MEK)	50	D7,M1	ND		500.	112.	
75-15-0	Carbon disulfide	50	D7,M1	ND		250.	12.8	
56-23-5	Carbon tetrachloride	50	D7,M1	9140		250.	29.6	
108-90-7	Chlorobenzene	50	D7,M1	ND		250.	5.94	
75-00-3	Chloroethane	50	D7,M1	ND		250.	32.3	
67-66-3	Chloroform	50	D7,M1	2370		250.	24.0	
74-87-3	Chloromethane	50	D7,M1	ND		250.	15.3	
126-99-8	Chloroprene	50	D7,M1	ND		250.	39.2	
96-12-8	1,2-Dibromo-3-chloropropane	50	D7,M1	ND		250.	61.0	
124-48-1	Dibromochloromethane	50	D7,M1	ND		250.	7.27	
106-93-4	1,2-Dibromoethane (EDB)	50	D7,M1	ND		250.	33.4	
74-95-3	Dibromomethane	50	D7,M1	ND		250.	69.3	
110-57-6	trans-1,4-Dichloro-2-butene	50	D7,M1	ND		250.	93.2	
75-71-8	Dichlorodifluoromethane	50	D7,M1	ND		250.	40.9	
75-34-3	1,1-Dichloroethane	50	D7,M1	ND		250.	25.7	
107-06-2	1,2-Dichloroethane	50	D7,M1	62.5	J	250.	10.6	
75-35-4	1,1-Dichloroethene	50	D7,M1	ND		250.	24.6	
156-60-5	trans-1,2-Dichloroethene	50	D7,M1	ND		250.	36.7	
78-87-5	1,2-Dichloropropane	50	D7,M1	ND		250.	16.4	
10061-01-5	cis-1,3-Dichloropropene	50	D7,M1	ND		250.	4.34	
10061-02-6	trans-1,3-Dichloropropene	50	D7,M1	ND		250.	10.8	

Protocol 4/7/2008 15:56:41

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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Sample Results

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: DUP-01
Project ID: LA002656.1.13/MS BLUFFS
Lab ID: 20597307
Description: None
Method: EPA 8260

Project: 2079932
Site: None
Matrix: Water **% Moisture:** n/a
Prep Level: Water **Batch:** 99537

Collected: 19-Mar-08 **Received:** 20-Mar-08
Prepared: 26-Mar-08 **Analyzed:** 26-Mar-08 13:25 RMP

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result		Reporting Limit	MDL	Reg Limit
123-91-1	1,4-Dioxane (p-Dioxane)	50	D7,M1	ND		12500	842.	
100-41-4	Ethylbenzene	50	D7,M1	ND		250.	5.97	
97-63-2	Ethyl methacrylate	50	D7,M1	ND		500.	23.8	
591-78-6	2-Hexanone	50	D7,M1	ND		500.	23.4	
74-88-4	Iodomethane	50	D7,M1	ND		250.	31.0	
78-83-1	Isobutanol	50	D7,M1	ND		12500	934.	
126-98-7	Methacrylonitrile	50	D7,M1	ND		5000	812.	
75-09-2	Methylene chloride	50	D7,M1	ND		250.	35.5	
80-62-6	Methyl methacrylate	50	D7,M1	ND		500.	49.9	
108-10-1	4-Methyl-2-pentanone (MIBK)	50	D7,M1	ND		500.	43.6	
107-12-0	Propionitrile	50	D7,M1	ND		1000	317.	
100-42-5	Styrene	50	D7,M1	ND		250.	3.82	
630-20-6	1,1,1,2-Tetrachloroethane	50	D7,M1	ND		250.	14.6	
79-34-5	1,1,2,2-Tetrachloroethane	50	D7,M1	ND		250.	11.9	
127-18-4	Tetrachloroethene	50	D7,M1	32.5	J	250.	8.12	
108-88-3	Toluene	50	D7,M1	ND		250.	6.54	
71-55-6	1,1,1-Trichloroethane	50	D7,M1	ND		250.	30.5	
79-00-5	1,1,2-Trichloroethane	50	D7,M1	39.0	J	250.	16.4	
79-01-6	Trichloroethene	50	D7,M1	29.5	J	250.	8.42	
75-69-4	Trichlorofluoromethane	50	D7,M1	ND		250.	78.6	
96-18-4	1,2,3-Trichloropropane	50	D7,M1	ND		250.	74.4	
95-63-6	1,2,4-Trimethylbenzene	50	D7,M1	ND		250.	4.22	
108-67-8	1,3,5-Trimethylbenzene	50	D7,M1	ND		250.	3.07	
108-05-4	Vinyl acetate	50	D7,M1	ND		500.	34.3	
75-01-4	Vinyl chloride	50	D7,M1	ND		250.	23.2	
	m&p-Xylene	50	D7,M1	ND		500.	7.56	
95-47-6	o-Xylene	50	D7,M1	ND		250.	7.08	

57 compound(s) reported

Protocol 4/7/2008 15:56:41

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MDL denotes method detection limit

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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: DUP-01
Project: 2079932
Project ID: LA002656.1.13/MS BLUFFS
Site: None
Lab ID: 20597307
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99415
Method: EPA 8270

Collected: 19-Mar-08
Received: 20-Mar-08
Prepared: 21-Mar-08
Analyzed: 27-Mar-08 01:05 JAM

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
98-86-2	Acetophenone	10	D2	ND	100.	14.2	
1912-24-9	Atrazine	10	D2	ND	100.		
21725-46-2	Cyanazine	10	D2	ND	100.		
88-85-7	Dinoseb	80	D1	3170	800.	96.0	
117-81-7	bis(2-Ethylhexyl)phthalate	10	D2	ND	100.	86.2	
100-02-7	4-Nitrophenol	10	D2	ND	100.	13.3	
87-86-5	Pentachlorophenol	10	D2	ND	100.	13.7	

7 compound(s) reported

Protocol 4/7/2008 15:56:41

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: RB-01
Project: 2079932
Project ID: LA002656.1.13/MS BLUFFS
Site: None
Lab ID: 20597308
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99537
Method: EPA 8260

Collected: 19-Mar-08
Received: 20-Mar-08
Prepared: 25-Mar-08
Analyzed: 25-Mar-08 17:11 RMP

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
67-64-1	Acetone	1	A11	ND	10.0	5.90	
75-05-8	Acetonitrile	1		ND	100.	12.5	
107-02-8	Acrolein	1		ND	20.0	9.10	
107-13-1	Acrylonitrile	1		ND	20.0	4.90	
107-05-1	Allyl chloride	1		ND	10.0	1.56	
71-43-2	Benzene	1		ND	5.00	0.117	
75-27-4	Bromodichloromethane	1		ND	5.00	0.206	
75-25-2	Bromoform	1		ND	5.00	0.259	
74-83-9	Bromomethane	1		ND	5.00	1.94	
78-93-3	2-Butanone (MEK)	1	A11	ND	10.0	2.25	
75-15-0	Carbon disulfide	1		ND	5.00	0.257	
56-23-5	Carbon tetrachloride	1		ND	5.00	0.592	
108-90-7	Chlorobenzene	1		ND	5.00	0.119	
75-00-3	Chloroethane	1		ND	5.00	0.647	
67-66-3	Chloroform	1		ND	5.00	0.479	
74-87-3	Chloromethane	1		ND	5.00	0.305	
126-99-8	Chloroprene	1		ND	5.00	0.784	
96-12-8	1,2-Dibromo-3-chloropropane	1		ND	5.00	1.22	
124-48-1	Dibromochloromethane	1		ND	5.00	0.145	
106-93-4	1,2-Dibromoethane (EDB)	1		ND	5.00	0.669	
74-95-3	Dibromomethane	1		ND	5.00	1.39	
110-57-6	trans-1,4-Dichloro-2-butene	1		ND	5.00	1.86	
75-71-8	Dichlorodifluoromethane	1		ND	5.00	0.818	
75-34-3	1,1-Dichloroethane	1		ND	5.00	0.515	
107-06-2	1,2-Dichloroethane	1		ND	5.00	0.212	
75-35-4	1,1-Dichloroethene	1		ND	5.00	0.493	
156-60-5	trans-1,2-Dichloroethene	1		ND	5.00	0.733	
78-87-5	1,2-Dichloropropane	1		ND	5.00	0.328	
10061-01-5	cis-1,3-Dichloropropene	1		ND	5.00	0.0869	
10061-02-6	trans-1,3-Dichloropropene	1		ND	5.00	0.216	

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: RB-01
Project: 2079932
Project ID: LA002656.1.13/MS BLUFFS
Site: None
Lab ID: 20597308
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99537
Method: EPA 8260

Collected: 19-Mar-08
Received: 20-Mar-08
Prepared: 25-Mar-08
Analyzed: 25-Mar-08 17:11 RMP

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
123-91-1	1,4-Dioxane (p-Dioxane)	1		ND	250.	16.8	
100-41-4	Ethylbenzene	1		ND	5.00	0.119	
97-63-2	Ethyl methacrylate	1		ND	10.0	0.475	
591-78-6	2-Hexanone	1		ND	10.0	0.468	
74-88-4	Iodomethane	1		ND	5.00	0.621	
78-83-1	Isobutanol	1		ND	250.	18.7	
126-98-7	Methacrylonitrile	1		ND	100.	16.2	
75-09-2	Methylene chloride	1	A11	ND	5.00	0.710	
80-62-6	Methyl methacrylate	1		ND	10.0	0.997	
108-10-1	4-Methyl-2-pentanone (MIBK)	1		ND	10.0	0.872	
107-12-0	Propionitrile	1		ND	20.0	6.35	
100-42-5	Styrene	1		ND	5.00	0.0763	
630-20-6	1,1,1,2-Tetrachloroethane	1		ND	5.00	0.291	
79-34-5	1,1,2,2-Tetrachloroethane	1		ND	5.00	0.238	
127-18-4	Tetrachloroethene	1		ND	5.00	0.162	
108-88-3	Toluene	1		ND	5.00	0.131	
71-55-6	1,1,1-Trichloroethane	1		ND	5.00	0.609	
79-00-5	1,1,2-Trichloroethane	1		ND	5.00	0.328	
79-01-6	Trichloroethene	1		ND	5.00	0.168	
75-69-4	Trichlorofluoromethane	1		ND	5.00	1.57	
96-18-4	1,2,3-Trichloropropane	1		ND	5.00	1.49	
95-63-6	1,2,4-Trimethylbenzene	1		ND	5.00	0.0844	
108-67-8	1,3,5-Trimethylbenzene	1		ND	5.00	0.0614	
108-05-4	Vinyl acetate	1		ND	10.0	0.686	
75-01-4	Vinyl chloride	1		ND	5.00	0.463	
	m&p-Xylene	1		ND	10.0	0.151	
95-47-6	o-Xylene	1		ND	5.00	0.142	

57 compound(s) reported

Protocol 4/7/2008 15:56:41

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: RB-01
Project ID: LA002656.1.13/MS BLUFFS
Lab ID: 20597308
Description: None
Method: EPA 8270

Project: 2079932
Site: None
Matrix: Water
Prep Level: Water

% Moisture: n/a
Batch: 99555

Collected: 19-Mar-08
Received: 20-Mar-08
Prepared: 25-Mar-08
Analyzed: 26-Mar-08 21:36 JAM

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
98-86-2	Acetophenone	1		ND	10.0	1.42	
1912-24-9	Atrazine	1		ND	10.0		
21725-46-2	Cyanazine	1		ND	10.0		
88-85-7	Dinoseb	1		ND	10.0	1.20	
117-81-7	bis(2-Ethylhexyl)phthalate	1	A25	ND	10.0	8.62	
100-02-7	4-Nitrophenol	1		ND	10.0	1.33	
87-86-5	Pentachlorophenol	1		ND	10.0	1.37	

7 compound(s) reported

Protocol 4/7/2008 15:56:41

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: FB-01
Project: 2079932
Project ID: LA002656.1.13/MS BLUFFS
Site: None
Lab ID: 20597312
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99537
Method: EPA 8260

Collected: 19-Mar-08
Received: 20-Mar-08
Prepared: 25-Mar-08
Analyzed: 25-Mar-08 17:31 RMP

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
67-64-1	Acetone	1	A11	ND	10.0	5.90	
75-05-8	Acetonitrile	1		ND	100.	12.5	
107-02-8	Acrolein	1		ND	20.0	9.10	
107-13-1	Acrylonitrile	1		ND	20.0	4.90	
107-05-1	Allyl chloride	1		ND	10.0	1.56	
71-43-2	Benzene	1		ND	5.00	0.117	
75-27-4	Bromodichloromethane	1		ND	5.00	0.206	
75-25-2	Bromoform	1		ND	5.00	0.259	
74-83-9	Bromomethane	1		ND	5.00	1.94	
78-93-3	2-Butanone (MEK)	1	A11	ND	10.0	2.25	
75-15-0	Carbon disulfide	1		ND	5.00	0.257	
56-23-5	Carbon tetrachloride	1		ND	5.00	0.592	
108-90-7	Chlorobenzene	1		ND	5.00	0.119	
75-00-3	Chloroethane	1		ND	5.00	0.647	
67-66-3	Chloroform	1		ND	5.00	0.479	
74-87-3	Chloromethane	1		ND	5.00	0.305	
126-99-8	Chloroprene	1		ND	5.00	0.784	
96-12-8	1,2-Dibromo-3-chloropropane	1		ND	5.00	1.22	
124-48-1	Dibromochloromethane	1		ND	5.00	0.145	
106-93-4	1,2-Dibromoethane (EDB)	1		ND	5.00	0.669	
74-95-3	Dibromomethane	1		ND	5.00	1.39	
110-57-6	trans-1,4-Dichloro-2-butene	1		ND	5.00	1.86	
75-71-8	Dichlorodifluoromethane	1		ND	5.00	0.818	
75-34-3	1,1-Dichloroethane	1		ND	5.00	0.515	
107-06-2	1,2-Dichloroethane	1		ND	5.00	0.212	
75-35-4	1,1-Dichloroethene	1		ND	5.00	0.493	
156-60-5	trans-1,2-Dichloroethene	1		ND	5.00	0.733	
78-87-5	1,2-Dichloropropane	1		ND	5.00	0.328	
10061-01-5	cis-1,3-Dichloropropene	1		ND	5.00	0.0869	
10061-02-6	trans-1,3-Dichloropropene	1		ND	5.00	0.216	

Protocol 4/7/2008 15:56:41

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MDL denotes method detection limit

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: FB-01
Project: 2079932
Project ID: LA002656.1.13/MS BLUFFS
Site: None
Lab ID: 20597312
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99537
Method: EPA 8260

Collected: 19-Mar-08
Received: 20-Mar-08
Prepared: 25-Mar-08
Analyzed: 25-Mar-08 17:31 RMP

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
123-91-1	1,4-Dioxane (p-Dioxane)	1		ND	250.	16.8	
100-41-4	Ethylbenzene	1		ND	5.00	0.119	
97-63-2	Ethyl methacrylate	1		ND	10.0	0.475	
591-78-6	2-Hexanone	1		ND	10.0	0.468	
74-88-4	Iodomethane	1		ND	5.00	0.621	
78-83-1	Isobutanol	1		ND	250.	18.7	
126-98-7	Methacrylonitrile	1		ND	100.	16.2	
75-09-2	Methylene chloride	1	A11	ND	5.00	0.710	
80-62-6	Methyl methacrylate	1		ND	10.0	0.997	
108-10-1	4-Methyl-2-pentanone (MIBK)	1		ND	10.0	0.872	
107-12-0	Propionitrile	1		ND	20.0	6.35	
100-42-5	Styrene	1		ND	5.00	0.0763	
630-20-6	1,1,1,2-Tetrachloroethane	1		ND	5.00	0.291	
79-34-5	1,1,2,2-Tetrachloroethane	1		ND	5.00	0.238	
127-18-4	Tetrachloroethene	1		ND	5.00	0.162	
108-88-3	Toluene	1		ND	5.00	0.131	
71-55-6	1,1,1-Trichloroethane	1		ND	5.00	0.609	
79-00-5	1,1,2-Trichloroethane	1		ND	5.00	0.328	
79-01-6	Trichloroethene	1		ND	5.00	0.168	
75-69-4	Trichlorofluoromethane	1		ND	5.00	1.57	
96-18-4	1,2,3-Trichloropropane	1		ND	5.00	1.49	
95-63-6	1,2,4-Trimethylbenzene	1		ND	5.00	0.0844	
108-67-8	1,3,5-Trimethylbenzene	1		ND	5.00	0.0614	
108-05-4	Vinyl acetate	1		ND	10.0	0.686	
75-01-4	Vinyl chloride	1		ND	5.00	0.463	
	m&p-Xylene	1		ND	10.0	0.151	
95-47-6	o-Xylene	1		ND	5.00	0.142	

57 compound(s) reported

Protocol 4/7/2008 15:56:41

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: TB-01
Project: 2079932
Project ID: LA002656.1.13/MS BLUFFS
Site: None
Lab ID: 20597314
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99537
Method: EPA 8260

Collected: 18-Mar-08
Received: 20-Mar-08
Prepared: 25-Mar-08
Analyzed: 25-Mar-08 17:52 RMP

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
67-64-1	Acetone	1	A11	ND	10.0	5.90	
75-05-8	Acetonitrile	1		ND	100.	12.5	
107-02-8	Acrolein	1		ND	20.0	9.10	
107-13-1	Acrylonitrile	1		ND	20.0	4.90	
107-05-1	Allyl chloride	1		ND	10.0	1.56	
71-43-2	Benzene	1		ND	5.00	0.117	
75-27-4	Bromodichloromethane	1		ND	5.00	0.206	
75-25-2	Bromoform	1		ND	5.00	0.259	
74-83-9	Bromomethane	1		ND	5.00	1.94	
78-93-3	2-Butanone (MEK)	1	A11	ND	10.0	2.25	
75-15-0	Carbon disulfide	1		ND	5.00	0.257	
56-23-5	Carbon tetrachloride	1		ND	5.00	0.592	
108-90-7	Chlorobenzene	1		ND	5.00	0.119	
75-00-3	Chloroethane	1		ND	5.00	0.647	
67-66-3	Chloroform	1		ND	5.00	0.479	
74-87-3	Chloromethane	1		ND	5.00	0.305	
126-99-8	Chloroprene	1		ND	5.00	0.784	
96-12-8	1,2-Dibromo-3-chloropropane	1		ND	5.00	1.22	
124-48-1	Dibromochloromethane	1		ND	5.00	0.145	
106-93-4	1,2-Dibromoethane (EDB)	1		ND	5.00	0.669	
74-95-3	Dibromomethane	1		ND	5.00	1.39	
110-57-6	trans-1,4-Dichloro-2-butene	1		ND	5.00	1.86	
75-71-8	Dichlorodifluoromethane	1		ND	5.00	0.818	
75-34-3	1,1-Dichloroethane	1		ND	5.00	0.515	
107-06-2	1,2-Dichloroethane	1		ND	5.00	0.212	
75-35-4	1,1-Dichloroethene	1		ND	5.00	0.493	
156-60-5	trans-1,2-Dichloroethene	1		ND	5.00	0.733	
78-87-5	1,2-Dichloropropane	1		ND	5.00	0.328	
10061-01-5	cis-1,3-Dichloropropene	1		ND	5.00	0.0869	
10061-02-6	trans-1,3-Dichloropropene	1		ND	5.00	0.216	

Protocol 4/7/2008 15:56:42

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: TB-01
Project ID: LA002656.1.13/MS BLUFFS
Lab ID: 20597314
Description: None
Method: EPA 8260

Project: 2079932
Site: None
Matrix: Water
Prep Level: Water

% Moisture: n/a
Batch: 99537

Collected: 18-Mar-08
Received: 20-Mar-08
Prepared: 25-Mar-08
Analyzed: 25-Mar-08 17:52 RMP

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
123-91-1	1,4-Dioxane (p-Dioxane)	1		ND	250.	16.8	
100-41-4	Ethylbenzene	1		ND	5.00	0.119	
97-63-2	Ethyl methacrylate	1		ND	10.0	0.475	
591-78-6	2-Hexanone	1		ND	10.0	0.468	
74-88-4	Iodomethane	1		ND	5.00	0.621	
78-83-1	Isobutanol	1		ND	250.	18.7	
126-98-7	Methacrylonitrile	1		ND	100.	16.2	
75-09-2	Methylene chloride	1	A11	ND	5.00	0.710	
80-62-6	Methyl methacrylate	1		ND	10.0	0.997	
108-10-1	4-Methyl-2-pentanone (MIBK)	1		ND	10.0	0.872	
107-12-0	Propionitrile	1		ND	20.0	6.35	
100-42-5	Styrene	1		ND	5.00	0.0763	
630-20-6	1,1,1,2-Tetrachloroethane	1		ND	5.00	0.291	
79-34-5	1,1,2,2-Tetrachloroethane	1		ND	5.00	0.238	
127-18-4	Tetrachloroethene	1		ND	5.00	0.162	
108-88-3	Toluene	1		ND	5.00	0.131	
71-55-6	1,1,1-Trichloroethane	1		ND	5.00	0.609	
79-00-5	1,1,2-Trichloroethane	1		ND	5.00	0.328	
79-01-6	Trichloroethene	1		ND	5.00	0.168	
75-69-4	Trichlorofluoromethane	1		ND	5.00	1.57	
96-18-4	1,2,3-Trichloropropane	1		ND	5.00	1.49	
95-63-6	1,2,4-Trimethylbenzene	1		ND	5.00	0.0844	
108-67-8	1,3,5-Trimethylbenzene	1		ND	5.00	0.0614	
108-05-4	Vinyl acetate	1		ND	10.0	0.686	
75-01-4	Vinyl chloride	1		ND	5.00	0.463	
	m&p-Xylene	1		ND	10.0	0.151	
95-47-6	o-Xylene	1		ND	5.00	0.142	

57 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-7
Project: 2079932
Project ID: LA002656.1.13/MS BLUFFS
Site: None
Lab ID: 20597296
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99474
Method: EPA 8081

Collected: 18-Mar-08
Received: 20-Mar-08
Prepared: 22-Mar-08
Analyzed: 03-Apr-08 03:02 SLF

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
8001-35-2	Toxaphene	1		ND	2.00	2.00	

1 compound(s) reported

Protocol 4/7/2008 15:56:43

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-6
Project: 2079932
Project ID: LA002656.1.13/MS BLUFFS
Site: None
Lab ID: 20597302
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99474
Method: EPA 8081

Collected: 18-Mar-08
Received: 20-Mar-08
Prepared: 22-Mar-08
Analyzed: 03-Apr-08 03:24 SLF

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
8001-35-2	Toxaphene	1		ND	2.00	2.00	

1 compound(s) reported

Protocol 4/7/2008 15:56:43

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MDL denotes method detection limit

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-5
Project ID: LA002656.1.13/MS BLUFFS
Lab ID: 20597303
Description: None
Method: EPA 8081

Project: 2079932
Site: None
Matrix: Water
% Moisture: n/a
Prep Level: Water
Batch: 99474

Collected: 18-Mar-08
Received: 20-Mar-08
Prepared: 22-Mar-08
Analyzed: 03-Apr-08 03:45 SLF

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
8001-35-2	Toxaphene	1		ND	2.00	2.00	

1 compound(s) reported

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MDL denotes method detection limit

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-2
Project: 2079932
Project ID: LA002656.1.13/MS BLUFFS
Site: None
Lab ID: 20597304
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99474
Method: EPA 8081

Collected: 19-Mar-08
Received: 20-Mar-08
Prepared: 22-Mar-08
Analyzed: 03-Apr-08 04:07 SLF

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
8001-35-2	Toxaphene	1		ND	2.00	2.00	

1 compound(s) reported

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MDL denotes method detection limit

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For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-8
Project: 2079932
Project ID: LA002656.1.13/MS BLUFFS
Site: None
Lab ID: 20597305
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99474
Method: EPA 8081

Collected: 19-Mar-08
Received: 20-Mar-08
Prepared: 22-Mar-08
Analyzed: 03-Apr-08 04:29 SLF

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
8001-35-2	Toxaphene	1		ND	2.00	2.00	

1 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-12C
Project: 2079932
Project ID: LA002656.1.13/MS BLUFFS
Site: None
Lab ID: 20597306
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99474
Method: EPA 8081

Collected: 19-Mar-08
Received: 20-Mar-08
Prepared: 22-Mar-08
Analyzed: 03-Apr-08 04:51 SLF

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
8001-35-2	Toxaphene	1		ND	2.00	2.00	

1 compound(s) reported

Protocol 4/7/2008 15:56:43

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: DUP-01
Project ID: LA002656.1.13/MS BLUFFS
Lab ID: 20597307
Description: None
Method: EPA 8081

Project: 2079932
Site: None
Matrix: Water
Prep Level: Water

% Moisture: n/a
Batch: 99474

Collected: 19-Mar-08
Received: 20-Mar-08
Prepared: 22-Mar-08
Analyzed: 03-Apr-08 05:13 SLF

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
8001-35-2	Toxaphene	1		ND	2.00	2.00	

1 compound(s) reported

Protocol 4/7/2008 15:56:43

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: RB-01
Project: 2079932
Project ID: LA002656.1.13/MS BLUFFS
Site: None
Lab ID: 20597308
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99474
Method: EPA 8081

Collected: 19-Mar-08
Received: 20-Mar-08
Prepared: 22-Mar-08
Analyzed: 03-Apr-08 05:35 SLF

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
8001-35-2	Toxaphene	1		ND	2.00	2.00	

1 compound(s) reported

Protocol 4/7/2008 15:56:43

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Organics Quality Control

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Method: EPA 8260 **Project:** 2079932 **LCS:** 20598056 25-Mar-08 10:41

Batch: 99537 **MS:** 20598057 25-Mar-08 14:29

MSD: 20598058 25-Mar-08 14:49

Units: ug/L **Original for MS:** 20597296 Client Sample

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Acetone	50	38.94	78	50	0.00	45.66	45.33	91	91	1	22 - 165	11 - 217	20	A11
Acetonitrile	550	1070	195 *	550	0.00	1055	1160	192	211	9	15 - 171	10 - 261	20	Q10
Acrolein	100	41.9	42	100	0.00	60.5	70.22	61	70	15	10 - 131	10 - 142	20	
Acrylonitrile	150	106.1	71	150	0.00	158	183.6	105	122	15	18 - 149	20 - 164	20	
Allyl chloride	100	101.7	102	100	0.00	106.4	110.2	106	110	4	52 - 127	51 - 129	20	
Benzene	50	51.22	102	50	0.00	52.75	51.61	106	103	2	62 - 131	52 - 141	20	
Bromodichloromethane	50	54.02	108	50	0.00	59.96	59.11	120	118	1	69 - 132	70 - 134	20	
Bromoform	50	49.58	99	50	0.00	59.58	62.38	119	125	5	35 - 166	37 - 171	20	
Bromomethane	50	51.47	103	50	0.00	53.35	56.33	107	113	5	34 - 158	34 - 155	20	
2-Butanone (MEK)	50	31.42	63	50	0.00	42.83	40.65	86	81	5	32 - 183	20 - 205	20	A11
Carbon disulfide	50	48.87	98	50	0.00	46.02	49.19	92	98	7	31 - 128	28 - 130	20	
Carbon tetrachloride	50	55.13	110	50	0.00	55.05	53.22	110	106	3	54 - 144	48 - 146	20	
Chlorobenzene	50	52.72	105	50	0.00	52.56	52.78	105	106	0	70 - 127	67 - 129	20	
Chloroethane	50	55.51	111	50	0.00	57.31	59.57	115	119	4	17 - 195	12 - 192	20	
Chloroform	50	49.73	100	50	0.00	55.28	56.94	111	114	3	73 - 134	66 - 143	20	
Chloromethane	50	66.55	133	50	0.00	68.38	72.13	137	144	5	17 - 153	14 - 155	20	
Chloroprene	50	49.85	100	50	0.00	49.29	51.46	99	103	4	55 - 137	50 - 134	20	
1,2-Dibromo-3-chloropropa	50	57	114	50	0.00	69.68	74.24	139	149	6	21 - 160	23 - 166	20	
Dibromochloromethane	50	51.89	104	50	0.00	58.75	58.3	118	117	1	49 - 146	50 - 150	20	
1,2-Dibromoethane (EDB)	50	50.48	101	50	0.00	65.1	62.16	130	124	5	52 - 161	55 - 166	20	
Dibromomethane	50	47.01	94	50	0.00	61.98	59.04	124	118	5	56 - 145	58 - 153	20	
trans-1,4-Dichloro-2-butene	100	111.7	112	100	0.00	133.3	129.9	133	130	3	21 - 157	23 - 163	20	
1,1-Dichloroethane	50	51.4	103	50	0.00	54.98	56.51	110	113	3	63 - 129	59 - 133	20	
1,2-Dichloroethane	50	50.4	101	50	0.00	58.75	58.14	118	116	1	57 - 148	56 - 154	20	
1,1-Dichloroethene	50	48.46	97	50	0.00	49.36	51.73	99	104	5	51 - 139	44 - 146	20	
trans-1,2-Dichloroethene	50	48.46	97	50	0.00	49.36	51.73	99	104	5	60 - 129	57 - 132	20	
1,2-Dichloropropane	50	54.71	109	50	0.00	58.76	59.01	118	118	0	66 - 128	62 - 135	20	
cis-1,3-Dichloropropene	50	54.06	108	50	0.00	61.97	59.01	124	118	5	72 - 138	70 - 139	20	
trans-1,3-Dichloropropene	50	53.76	108	50	0.00	67.25	66.74	135	134	1	59 - 149	59 - 154	20	
1,4-Dioxane (p-Dioxane)	1050	873.3	83	1050	0.00	1540	1156	147	110	28 *	17 - 200	15 - 221	20	
Ethylbenzene	50	52.45	105	50	0.00	49.67	50.41	99	101	1	66 - 126	57 - 135	20	
Ethyl methacrylate	100	43.25	43	100	0.00	57.24	52.82	57	53	8	35 - 168	37 - 177	20	
2-Hexanone	50	37.26	75	50	0.00	42.81	45.62	86	91	6	36 - 170	25 - 189	20	
Iodomethane	50	51	102	50	0.00	52.13	54.67	104	109	5	47 - 135	46 - 138	20	
Isobutanol	1050	872.4	83	1050	0.00	1278	1211	122	115	5	32 - 173	26 - 188	20	
Methacrylonitrile	550	507.1	92	550	0.00	699.9	717.5	127	131	2	25 - 172	26 - 186	20	

*** denotes recovery outside of QC limits.**

4/7/2008 15:56:44

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

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LELAP # 02006

Method: EPA 8260 **Project:** 2079932 **LCS:** 20598056 25-Mar-08 10:41

Batch: 99537 **MS:** 20598057 25-Mar-08 14:29

MSD: 20598058 25-Mar-08 14:49

Units: ug/L **Original for MS:** 20597296 Client Sample

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Methylene chloride	50	49.28	99	50	0.00	56.34	56.26	113	113	0	46 - 168	45 - 166	20	A11
Methyl methacrylate	100	88.05	88	100	0.00	114.7	109.1	115	109	5	33 - 170	37 - 180	20	
4-Methyl-2-pentanone (MI	50	52.39	105	50	0.00	66.94	66.04	134	132	1	26 - 171	23 - 184	20	
Propionitrile	550	491.5	89	550	0.00	724.7	708.4	132	129	2	14 - 183	15 - 199	20	
Styrene	50	52.21	104	50	0.00	52.39	51.34	105	103	2	72 - 133	58 - 144	20	
1,1,1,2-Tetrachloroethane	50	53.03	106	50	0.00	54.46	55.18	109	110	1	66 - 134	66 - 136	20	
1,1,2,2-Tetrachloroethane	50	61.96	124	50	0.00	73.32	68.99	147	138	6	15 - 179	15 - 187	20	
Tetrachloroethene	50	47.55	95	50	0.00	40.46	41.11	81	82	2	46 - 157	48 - 143	20	
Toluene	50	51.67	103	50	0.00	53.22	52.17	106	104	2	69 - 126	59 - 136	20	
1,1,1-Trichloroethane	50	50.65	101	50	0.00	52.94	53.72	106	107	1	62 - 131	54 - 137	20	
1,1,2-Trichloroethane	50	49.03	98	50	0.00	58.35	59.93	117	120	3	58 - 144	59 - 148	20	
Trichloroethene	50	51.09	102	50	0.00	52.56	50.7	105	101	4	67 - 132	58 - 140	20	
Trichlorofluoromethane	50	68.47	137	50	0.00	68.42	70.98	137	142	4	39 - 171	24 - 175	20	
1,2,3-Trichloropropane	50	54.76	110	50	0.00	65.82	59.15	132	118	11	13 - 187	14 - 199	20	
1,2,4-Trimethylbenzene	50	55.1	110	50	0.00	53.69	53.22	107	106	1	58 - 134	49 - 140	20	
1,3,5-Trimethylbenzene	50	54.89	110	50	0.00	52.18	51.4	104	103	2	56 - 134	40 - 147	20	
Vinyl acetate	50	66.37	133	50	0.00	82.27	86.23	165	173	5	22 - 191	18 - 198	20	
Vinyl chloride	50	59.35	119	50	0.00	58.32	62.4	117	125	7	27 - 149	21 - 150	20	
m&p-Xylene	100	108	108	100	0.00	102.7	103.6	103	104	1	65 - 129	56 - 136	20	
o-Xylene	50	50.93	102	50	0.00	51.14	50.65	102	101	1	65 - 124	57 - 133	20	

56 compound(s) reported

*** denotes recovery outside of QC limits.**

4/7/2008 15:56:44

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LELAP # 02006

Method: EPA 8270 **Project:** 2079932 **LCS:** 20597479 26-Mar-08 17:18

Batch: 99415 **MS:**

MSD:

Units: ug/L **Original for MS:**

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
bis(2-Ethylhexyl)phthalate	50	47.64	95								49 - 132	-		\25,Q5
4-Nitrophenol	50	37.2	74								35 - 133	-		Q5
Pentachlorophenol	50	35.79	72								38 - 135	-		Q5

3 compound(s) reported

*** denotes recovery outside of QC limits.**

4/7/2008 15:56:44

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LELAP # 02006

Method: EPA 8270 **Project:** 2079932 **LCS:** 20598101 26-Mar-08 18:10

Batch: 99555 **MS:** 20598102 26-Mar-08 18:36

MSD: 20598103 26-Mar-08 19:02

Units: ug/L **Original for MS:** 20597833 Batch Sample

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
bis(2-Ethylhexyl)phthalate	50	48.54	97	50	0.00	47.81	50.31	96	101	5	49 - 132	18 - 128	20	A25
4-Nitrophenol	50	36.73	74	50	0.00	38.98	43.09	78	86	10	35 - 133	10 - 162	35	
Pentachlorophenol	50	36.23	73	50	5.85	48.3	49.36	85	87	2	38 - 135	24 - 169	38	

3 compound(s) reported

*** denotes recovery outside of QC limits.**

4/7/2008 15:56:44

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

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LELAP # 02006

Batch: 99415 **Project:** 2079932

Lab ID	Sample ID	Qu	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20597478	99415 BLANK 1		67	79	73	77	88	100		
20597479	99415 LCS 1		79	80	78	77	91	92		
20597307	DUP-01	D1,D2	0 D	0 D	0 D	0 D	0 D	0 D		
20597306	MW-12C	D1	46	82	44	80	52	92		
20597304	MW-2		70	83	78	82	93	107		
20597303	MW-5		64	78	69	76	84	101		
20597302	MW-6		80	81	75	80	90	103		
20597296	MW-7		73	83	77	79	90	101		
20597305	MW-8		84	78	83	81	97	74		
	QC limits:		25-145	34-117	10-118	33-120	15-134	24-133		

Sur 1: 2,4,6-Tribromophenol (S)
Sur 2: 2-Fluorobiphenyl (S)
Sur 3: 2-Fluorophenol (S)
Sur 4: Nitrobenzene-d5 (S)
Sur 5: Phenol-d5 (S)
Sur 6: Terphenyl-d14 (S)

*** denotes surrogate recovery outside of QC limits.**
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.

4/7/2008 15:56:45

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Batch: 99537 **Project:** 2079932

Lab ID	Sample ID	Qu	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20598055	99537 BLANK 1		123	109	98					
20598558	99537 BLANK 2		129	117	101					
20598056	99537 LCS 1		111	106	108					
20598559	99537 LCS 2		110	113	105					
20597307	DUP-01	D7,M1	127	127 *	100					
20597312	FB-01	S1	117	135 *	105					
20597306	MW-12C	D7	125	119	98					
20597304	MW-2	S1	128	132 *	103					
20597303	MW-5		127	126	100					
20597302	MW-6		123	126	101					
20597296	MW-7	S1	125	133 *	101					
20598057	MW-7MS 1		110	119	108					
20598058	MW-7MSD 1		108	117	106					
20597305	MW-8	S1	129	134 *	103					
20597308	RB-01	S1	120	130 *	103					
20597314	TB-01	S1	126	135 *	102					
	QC limits:		66-141	72-126	78-119					

Sur 1: 4-Bromofluorobenzene (S)
Sur 2: Dibromofluoromethane (S)
Sur 3: Toluene-d8 (S)

*** denotes surrogate recovery outside of QC limits.**
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.

4/7/2008 15:56:45

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LELAP # 02006

Batch: 99555 **Project:** 2079932

Lab ID	Sample ID	Qu	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20598100	99555 BLANK 1		72	85	81	82	92	100		
20598101	99555 LCS 1		85	83	79	80	92	100		
20598102	MW-1CMS 1		83	81	71	75	85	96		
20598103	MW-1CMSD 1		87	85	75	79	90	103		
20597308	RB-01		70	82	77	78	90	98		
	QC limits:		25-145	34-117	10-118	33-120	15-134	24-133		

Sur 1: 2,4,6-Tribromophenol (S)
Sur 2: 2-Fluorobiphenyl (S)
Sur 3: 2-Fluorophenol (S)
Sur 4: Nitrobenzene-d5 (S)
Sur 5: Phenol-d5 (S)
Sur 6: Terphenyl-d14 (S)

*** denotes surrogate recovery outside of QC limits.**
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4/7/2008 15:56:45

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LELAP # 02006

Blank ID: 99415 BLANK 1 **Project:** 2079932

Lab ID: 20597478

Description: 8270 SVOAs Water **Prep Level:** Water **Batch:** 99415

Method: Water EPA 8270

Prepared: 21-Mar-08 **Analyzed:** 26-Mar-08 16:52

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL
98-86-2	Acetophenone	1		ND	10.0	1.42
1912-24-9	Atrazine	1		ND	10.0	
21725-46-2	Cyanazine	1		ND	10.0	
88-85-7	Dinoseb	1		ND	10.0	1.20
117-81-7	bis(2-Ethylhexyl)phthalate	1	A25	ND	10.0	8.62
100-02-7	4-Nitrophenol	1		ND	10.0	1.33
87-86-5	Pentachlorophenol	1		ND	10.0	1.37

7 compound(s) reported

4/7/2008 15:56:46

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

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LELAP # 02006

Blank ID: 99537 BLANK 1 **Project:** 2079932

Lab ID: 20598055

Description: 8260 VOAs Full List Water BLK **Prep Level:** Water **Batch:** 99537

Method: Water EPA 8260

Prepared: 25-Mar-08 **Analyzed:** 25-Mar-08 10:21

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL
67-64-1	Acetone	1	A11	ND	10.0	5.90
75-05-8	Acetonitrile	1		ND	100.	12.5
107-02-8	Acrolein	1		ND	20.0	9.10
107-13-1	Acrylonitrile	1		ND	20.0	4.90
107-05-1	Allyl chloride	1		ND	10.0	1.56
71-43-2	Benzene	1		ND	5.00	0.117
75-27-4	Bromodichloromethane	1		ND	5.00	0.206
75-25-2	Bromoform	1		ND	5.00	0.259
74-83-9	Bromomethane	1		ND	5.00	1.94
78-93-3	2-Butanone (MEK)	1	A11	ND	10.0	2.25
75-15-0	Carbon disulfide	1		ND	5.00	0.257
56-23-5	Carbon tetrachloride	1		ND	5.00	0.592
108-90-7	Chlorobenzene	1		ND	5.00	0.119
75-00-3	Chloroethane	1		ND	5.00	0.647
67-66-3	Chloroform	1		ND	5.00	0.479
74-87-3	Chloromethane	1		ND	5.00	0.305
126-99-8	Chloroprene	1		ND	5.00	0.784
96-12-8	1,2-Dibromo-3-chloropropane	1		ND	5.00	1.22
124-48-1	Dibromochloromethane	1		ND	5.00	0.145
106-93-4	1,2-Dibromoethane (EDB)	1		ND	5.00	0.669
74-95-3	Dibromomethane	1		ND	5.00	1.39
110-57-6	trans-1,4-Dichloro-2-butene	1		ND	5.00	1.86
75-71-8	Dichlorodifluoromethane	1		ND	5.00	0.818
75-34-3	1,1-Dichloroethane	1		ND	5.00	0.515
107-06-2	1,2-Dichloroethane	1		ND	5.00	0.212
75-35-4	1,1-Dichloroethene	1		ND	5.00	0.493
156-60-5	trans-1,2-Dichloroethene	1		ND	5.00	0.733
78-87-5	1,2-Dichloropropane	1		ND	5.00	0.328
10061-01-5	cis-1,3-Dichloropropene	1		ND	5.00	0.0869
10061-02-6	trans-1,3-Dichloropropene	1		ND	5.00	0.216

4/7/2008 15:56:46

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MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
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For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
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LELAP # 02006

Blank ID: 99537 BLANK 1 **Project:** 2079932

Lab ID: 20598055

Description: 8260 VOAs Full List Water BLK **Prep Level:** Water **Batch:** 99537

Method: Water EPA 8260

Prepared: 25-Mar-08 **Analyzed:** 25-Mar-08 10:21

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL
123-91-1	1,4-Dioxane (p-Dioxane)	1		ND	250.	16.8
100-41-4	Ethylbenzene	1		ND	5.00	0.119
97-63-2	Ethyl methacrylate	1		ND	10.0	0.475
591-78-6	2-Hexanone	1		ND	10.0	0.468
74-88-4	Iodomethane	1		ND	5.00	0.621
78-83-1	Isobutanol	1		ND	250.	18.7
126-98-7	Methacrylonitrile	1		ND	100.	16.2
75-09-2	Methylene chloride	1	A11	ND	5.00	0.710
80-62-6	Methyl methacrylate	1		ND	10.0	0.997
108-10-1	4-Methyl-2-pentanone (MIBK)	1		ND	10.0	0.872
107-12-0	Propionitrile	1		ND	20.0	6.35
100-42-5	Styrene	1		ND	5.00	0.0763
630-20-6	1,1,1,2-Tetrachloroethane	1		ND	5.00	0.291
79-34-5	1,1,2,2-Tetrachloroethane	1		ND	5.00	0.238
127-18-4	Tetrachloroethene	1		ND	5.00	0.162
108-88-3	Toluene	1		ND	5.00	0.131
71-55-6	1,1,1-Trichloroethane	1		ND	5.00	0.609
79-00-5	1,1,2-Trichloroethane	1		ND	5.00	0.328
79-01-6	Trichloroethene	1		ND	5.00	0.168
75-69-4	Trichlorofluoromethane	1		ND	5.00	1.57
96-18-4	1,2,3-Trichloropropane	1		ND	5.00	1.49
95-63-6	1,2,4-Trimethylbenzene	1		ND	5.00	0.0844
108-67-8	1,3,5-Trimethylbenzene	1		ND	5.00	0.0614
108-05-4	Vinyl acetate	1		ND	10.0	0.686
75-01-4	Vinyl chloride	1		ND	5.00	0.463
	m&p-Xylene	1		ND	10.0	0.151
95-47-6	o-Xylene	1		ND	5.00	0.142

57 compound(s) reported

4/7/2008 15:56:46

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Blank ID: 99537 BLANK 2 **Project:** 2079932

Lab ID: 20598558

Description: 8260 VOAs Full List Water BLK **Prep Level:** Water **Batch:** 99537

Method: Water EPA 8260

Prepared: 26-Mar-08 **Analyzed:** 26-Mar-08 10:40

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL
67-64-1	Acetone	1	A11	ND	10.0	5.90
75-05-8	Acetonitrile	1		ND	100.	12.5
107-02-8	Acrolein	1		ND	20.0	9.10
107-13-1	Acrylonitrile	1		ND	20.0	4.90
107-05-1	Allyl chloride	1		ND	10.0	1.56
71-43-2	Benzene	1		ND	5.00	0.117
75-27-4	Bromodichloromethane	1		ND	5.00	0.206
75-25-2	Bromoform	1		ND	5.00	0.259
74-83-9	Bromomethane	1		ND	5.00	1.94
78-93-3	2-Butanone (MEK)	1	A11	ND	10.0	2.25
75-15-0	Carbon disulfide	1		ND	5.00	0.257
56-23-5	Carbon tetrachloride	1		ND	5.00	0.592
108-90-7	Chlorobenzene	1		ND	5.00	0.119
75-00-3	Chloroethane	1		ND	5.00	0.647
67-66-3	Chloroform	1		ND	5.00	0.479
74-87-3	Chloromethane	1		ND	5.00	0.305
126-99-8	Chloroprene	1		ND	5.00	0.784
96-12-8	1,2-Dibromo-3-chloropropane	1		ND	5.00	1.22
124-48-1	Dibromochloromethane	1		ND	5.00	0.145
106-93-4	1,2-Dibromoethane (EDB)	1		ND	5.00	0.669
74-95-3	Dibromomethane	1		ND	5.00	1.39
110-57-6	trans-1,4-Dichloro-2-butene	1		ND	5.00	1.86
75-71-8	Dichlorodifluoromethane	1		ND	5.00	0.818
75-34-3	1,1-Dichloroethane	1		ND	5.00	0.515
107-06-2	1,2-Dichloroethane	1		ND	5.00	0.212
75-35-4	1,1-Dichloroethene	1		ND	5.00	0.493
156-60-5	trans-1,2-Dichloroethene	1		ND	5.00	0.733
78-87-5	1,2-Dichloropropane	1		ND	5.00	0.328
10061-01-5	cis-1,3-Dichloropropene	1		ND	5.00	0.0869
10061-02-6	trans-1,3-Dichloropropene	1		ND	5.00	0.216

4/7/2008 15:56:47

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LELAP # 02006

Blank ID: 99537 BLANK 2 **Project:** 2079932

Lab ID: 20598558

Description: 8260 VOAs Full List Water BLK **Prep Level:** Water **Batch:** 99537

Method: Water EPA 8260

Prepared: 26-Mar-08 **Analyzed:** 26-Mar-08 10:40

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL
123-91-1	1,4-Dioxane (p-Dioxane)	1		ND	250.	16.8
100-41-4	Ethylbenzene	1		ND	5.00	0.119
97-63-2	Ethyl methacrylate	1		ND	10.0	0.475
591-78-6	2-Hexanone	1		ND	10.0	0.468
74-88-4	Iodomethane	1		ND	5.00	0.621
78-83-1	Isobutanol	1		ND	250.	18.7
126-98-7	Methacrylonitrile	1		ND	100.	16.2
75-09-2	Methylene chloride	1	A11	ND	5.00	0.710
80-62-6	Methyl methacrylate	1		ND	10.0	0.997
108-10-1	4-Methyl-2-pentanone (MIBK)	1		ND	10.0	0.872
107-12-0	Propionitrile	1		ND	20.0	6.35
100-42-5	Styrene	1		ND	5.00	0.0763
630-20-6	1,1,1,2-Tetrachloroethane	1		ND	5.00	0.291
79-34-5	1,1,2,2-Tetrachloroethane	1		ND	5.00	0.238
127-18-4	Tetrachloroethene	1		ND	5.00	0.162
108-88-3	Toluene	1		ND	5.00	0.131
71-55-6	1,1,1-Trichloroethane	1		ND	5.00	0.609
79-00-5	1,1,2-Trichloroethane	1		ND	5.00	0.328
79-01-6	Trichloroethene	1		ND	5.00	0.168
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108-67-8	1,3,5-Trimethylbenzene	1		ND	5.00	0.0614
108-05-4	Vinyl acetate	1		ND	10.0	0.686
75-01-4	Vinyl chloride	1		ND	5.00	0.463
	m&p-Xylene	1		ND	10.0	0.151
95-47-6	o-Xylene	1		ND	5.00	0.142

57 compound(s) reported

4/7/2008 15:56:47

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LELAP # 02006

Blank ID: 99555 BLANK 1 **Project:** 2079932

Lab ID: 20598100

Description: 8270 SVOAs Water **Prep Level:** Water **Batch:** 99555

Method: Water EPA 8270

Prepared: 25-Mar-08 **Analyzed:** 26-Mar-08 17:44

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL
98-86-2	Acetophenone	1		ND	10.0	1.42
1912-24-9	Atrazine	1		ND	10.0	
21725-46-2	Cyanazine	1		ND	10.0	
88-85-7	Dinoseb	1		ND	10.0	1.20
117-81-7	bis(2-Ethylhexyl)phthalate	1	A25	ND	10.0	8.62
100-02-7	4-Nitrophenol	1		ND	10.0	1.33
87-86-5	Pentachlorophenol	1		ND	10.0	1.37

7 compound(s) reported

4/7/2008 15:56:47

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Surrogate Recovery

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Phone: 504.469.0333
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LELAP # 02006

Batch: 99474 **Project:** 2079932

Lab ID	Sample ID	Qu	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20597731	99474 BLANK 1		85	74	61	58				
20597912	99474 BLANK 2		105	98	86	66				
20597732	99474 LCS 1		107	92	45	49				
20597913	99474 LCS 2		114	110	69	68				
20597307	DUP-01	S1	114	214 *	0 *	0 *				
20597306	MW-12C	S1	117	148 *	0 *	0 *				
20597914	MW-1CMS 1		110	110	51	135 *				
20597915	MW-1CMSD 1		121	122	60	115				
20597304	MW-2		121	120	83	87				
20597303	MW-5		118	111	60	104				
20597302	MW-6		102	100	66	68				
20597296	MW-7		123	111	76	70				
20597305	MW-8		113	113	71	89				
20597308	RB-01		87	124	62	70				
	QC limits:		10-137	10-144	18-119	18-122				

Sur 1: Decachlorobiphenyl (Conf)(S)
Sur 2: Decachlorobiphenyl (S)
Sur 3: Tetrachloro-m-xylene (Conf)(S)
Sur 4: Tetrachloro-m-xylene (S)

*** denotes surrogate recovery outside of QC limits.**
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.

4/7/2008 15:56:48

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LELAP # 02006

Blank ID: 99474 BLANK 1 **Project:** 2079932

Lab ID: 20597731

Description: 8081 Pests Water **Prep Level:** Water **Batch:** 99474

Method: Water EPA 8081

Prepared: 22-Mar-08 **Analyzed:** 03-Apr-08 00:29

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL
8001-35-2	Toxaphene	1		ND	2.00	2.00

1 compound(s) reported

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Qualifier Summary

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2079932

Qualifier	Qualifier Description
A11	This analyte is a common solvent. Its presence in field samples may be an artifact of sample collection, transport, laboratory storage or analysis.
A25	This analyte is a common plasticizer. Its presence in field samples may be an artifact of sample collection, transport, laboratory storage or analysis.
D1	The analysis was performed at a dilution due to the high analyte concentration.
D2	The analysis was performed at a dilution due to the presence of matrix interferences.
D7	The sample was analyzed at a dilution based upon historical data.
G1	Interferences are present which caused poor surrogate recovery.
J	This estimated value for the analyte is below the adjusted reporting limit but above the instrument reporting limit.
M1	The sample required reextraction and/or reanalysis due to surrogate recoveries outside the QC limits. Reanalysis yielded similar results, indicating a sample matrix effect. The results reported are from the original analysis.
Q10	The spike recovery was above the laboratory QC limits, however, the data are reported without qualification since the target analyte was not detected in the corresponding samples.
Q5	Insufficient sample was provided to perform matrix spike analyses on any sample in this analytical batch. Method performance for this analyte has been demonstrated by the laboratory control sample recovery.
S1	The surrogate recovery was above the QC limit. The data are reported without qualification since the associated target analytes were not detected in the sample.

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ARCADIS

Laboratory Task Order No./P.O. No. _____ **CHAIN-OF-CUSTODY RECORD** Page 1 of 1

Project Number/Name LA002656.1.13/MS. BLUFFS

Project Location Vicksburg, MS

Laboratory PACE

Project Manager David Escudé

Sampler(s)/Affiliation K. Montgomery/G. Cook (Arcadis)

Standard T/A!

2079932

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	VOC (8260) 40 ml glass vials HCl	5 VOC (8270) 1 liter amberglass 4°C	Organochlorine Pesticides 500 mL amber glass 4°C	Total Metals (Arsenic) 250 ml plastic HNO3 (pH<2) 4°C	Diss. Metals (Arsenic) 250 ml plastic 4°C		Remarks	Total
MW-7	L	3/18/08 1437		3	2	2	1	1		20597296	9
MW-6	L	1610		3	2	0	1	1		302	9
MW-5	L	1726		3	2	2	1	1		303	9
TB-01	L	3-18-08		2	—	—	—	—		314	2
MW-2	L	3/19/08 0949		3	2	2	1	1		304	9
MW-8	L	1110		3	2	2	1	1		305	9
MW-12C	L	1412		3	2	2	1	1		306	9
DUP-01	L	—		3	2	2	1	1		307	9
FB-01	L	1430		3	—	—	—	—		312	3
RB-01	L	1445		3	2	2	1	1		308	9

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers 77

Relinquished by: K Montgomery	Organization: ARCADIS	Date 3/19/08	Time 1700	Seal Intact?		
Received by:	Organization:	Date / /	Time	Yes	No	N/A
Relinquished by: Fed Ex	Organization: Fed Ex	Date 3/20/08	Time 1030	Seal Intact?		
Received by: MJ Miller	Organization: Pace	Date 3/20/08	Time 1030	(Yes)	No	N/A

Special Instructions/Remarks: (1) LAB to FILTER!

2.3 – 3.4°

Delivery Method: ☐ In Person ☒ Common Carrier Fed Ex - Priority I ☐ Lab Courier ☐ Other _____

SPECIFY SPECIFY

AG 05-12/01

2079932 20-ARCADISGM

Pace Analytical

Sample Condition Up

1000 Riverbend. Blvd., Suite F
St. Rose, LA 70087

Project #: 20

Courier: ☐ Pace Courier ☐ Hackbarth ☑ Fed X ☐ UPS ☐ DHL ☐ USPS ☐ Customer ☐ Other

Custody Seal on Cooler/Box Present: [see COC] **Custody Seals intact:** ☑Yes ☐No

Therometer Used:	☑ Therm Fisher IR 1 ☐ Therm Fisher IR 2

Type of Ice: (Wet) Blue None

Samples on ice: [see COC]

Cooler Temperature: [see COC]

Temp should be above freezing to 6°C

Date and Initials of person examining contents: LV 3/31/08

Temp must be measured from Temperature blank when present

					Comments:
Temperature Blank Present"?	☐Yes	☐No	☑N/A		1
Chain of Custody Present:	☑Yes	☐No	☐N/A		2
Chain of Custody Complete:	☑Yes	☐No	☐N/A		3
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A		4
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A		5
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A		6
Sufficient Volume:	☑Yes	☐No	☐N/A		7
Correct Containers Used:	☑Yes	☐No	☐N/A		8
Filtered vol. Rec. for Diss. tests	☐Yes	☐No	☑N/A		9
Sample Labels match COC:	☑Yes	☐No	☐N/A		10
All containers received within manafacture's precautionary and/or expiration dates.	☑Yes	☐No	☐N/A		11
All containers needing preservation have been checked (except VOA, coliform, & O&G).	☐Yes	☐No	☑N/A		12
All containers preservation checked found to be in compliance with EPA recommendation.	☑Yes	☐No	☐N/A		13 If No, was preserative added? ☐Yes ☐No If added record lot no.: HNO3 _____ H2SO4 _____
Samples checked for dechlorination:	☐Yes	☐No	☑N/A		14
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A		14
Trip Blank Present:	☐Yes	☐No	☑N/A		16
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A		17
Pace Trip Blank Lot # (if purchased): N/A					18

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

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1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

April 02, 2008

Client Services
Pace Analytical New Orleans
1000 Riverbend Blvd
Suite F
St. Rose, LA 70087

RE: Project: 2079932 ARCADIS G&M
Pace Project No.: 1070255

Dear Client Services:
Enclosed are the analytical results for sample(s) received by the laboratory on March 20, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Diane J. Anderson

Diane J. Anderson for
Sylvia Hunter
sylvia.hunter@pacelabs.com
Project Manager

Florida (Nelap) Certification #: E87605
Illinois Certification #: 200011
Iowa Certification #: 368
Minnesota Certification #: 027-053-137
Wisconsin Certification #: 999407970

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Pace Analytical Services, Inc.
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(612)607-1700

SAMPLE SUMMARY

Project: 2079932 ARCADIS G&M
Pace Project No.: 1070255

Lab ID	Sample ID	Matrix	Date Collected	Date Received
20597296	**MW-7**	Water	03/18/08 14:37	03/20/08 10:30
20597302	**MW-6**	Water	03/18/08 16:10	03/20/08 10:30
20597303	**MW-5**	Water	03/18/08 17:26	03/20/08 10:30
20597304	**MW-2**	Water	03/19/08 09:49	03/20/08 10:30
20597305	**MW-8**	Water	03/19/08 11:10	03/20/08 10:30
20597306	**MW-12C**	Water	03/19/08 14:12	03/20/08 10:30
20597307	**DUP-01**	Water	03/19/08 00:00	03/20/08 10:30
20597308	**RB-01**	Water	03/19/08 14:45	03/20/08 10:30

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SAMPLE ANALYTE COUNT

Project: 2079932 ARCADIS G&M
Pace Project No.: 1070255

Lab ID	Sample ID	Method	Analysts	Analytes Reported
20597296	**MW-7**	EPA 6020	RJS	1
		EPA 6020	RJS	1
20597302	**MW-6**	EPA 6020	RJS	1
		EPA 6020	RJS	1
20597303	**MW-5**	EPA 6020	RJS	1
		EPA 6020	RJS	1
20597304	**MW-2**	EPA 6020	RJS	1
		EPA 6020	RJS	1
20597305	**MW-8**	EPA 6020	RJS	1
		EPA 6020	RJS	1
20597306	**MW-12C**	EPA 6020	RJS	1
		EPA 6020	RJS	1
20597307	**DUP-01**	EPA 6020	RJS	1
		EPA 6020	RJS	1
20597308	**RB-01**	EPA 6020	RJS	1
		EPA 6020	RJS	1

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ANALYTICAL RESULTS

Project: 2079932 ARCADIS G&M
Pace Project No.: 1070255

Sample: MW-7 **Lab ID: 20597296** Collected: 03/18/08 14:37 Received: 03/20/08 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Arsenic	**19.1**	ug/L	0.20	1	03/27/08 09:48	03/28/08 18:22	7440-38-2	
6020 MET ICPMS, Lab Filtered	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Arsenic	**7.3**	ug/L	0.20	1	03/28/08 10:47	03/31/08 18:39	7440-38-2	

Sample: MW-6 **Lab ID: 20597302** Collected: 03/18/08 16:10 Received: 03/20/08 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Arsenic	**1.2**	ug/L	0.20	1	03/27/08 09:48	03/28/08 18:26	7440-38-2	
6020 MET ICPMS, Lab Filtered	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Arsenic	**0.60**	ug/L	0.20	1	03/28/08 10:47	03/31/08 18:47	7440-38-2	

Sample: MW-5 **Lab ID: 20597303** Collected: 03/18/08 17:26 Received: 03/20/08 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Arsenic	**2.4**	ug/L	0.20	1	03/27/08 09:48	03/28/08 18:30	7440-38-2	
6020 MET ICPMS, Lab Filtered	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Arsenic	**1.9**	ug/L	0.20	1	03/28/08 10:47	03/31/08 18:51	7440-38-2	

Sample: MW-2 **Lab ID: 20597304** Collected: 03/19/08 09:49 Received: 03/20/08 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Arsenic	**1.1**	ug/L	0.20	1	03/27/08 09:48	03/28/08 18:34	7440-38-2	
6020 MET ICPMS, Lab Filtered	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Arsenic	**1.2**	ug/L	0.20	1	03/28/08 10:47	03/31/08 18:55	7440-38-2	

Sample: MW-8 **Lab ID: 20597305** Collected: 03/19/08 11:10 Received: 03/20/08 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Arsenic	**32.2**	ug/L	0.20	1	03/27/08 09:48	03/28/08 18:46	7440-38-2	

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Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 2079932 ARCADIS G&M
Pace Project No.: 1070255

Sample: MW-8 **Lab ID: 20597305** Collected: 03/19/08 11:10 Received: 03/20/08 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Lab Filtered	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Arsenic	**30.2**	ug/L	0.20	1	03/28/08 10:47	03/31/08 18:59	7440-38-2	

Sample: MW-12C **Lab ID: 20597306** Collected: 03/19/08 14:12 Received: 03/20/08 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Arsenic	**2.0**	ug/L	0.20	1	03/27/08 09:48	03/28/08 18:50	7440-38-2	
6020 MET ICPMS, Lab Filtered	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Arsenic	**1.1**	ug/L	0.20	1	03/28/08 10:47	03/31/08 19:03	7440-38-2	

Sample: DUP-01 **Lab ID: 20597307** Collected: 03/19/08 00:00 Received: 03/20/08 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Arsenic	**1.3**	ug/L	0.20	1	03/27/08 09:48	03/28/08 18:54	7440-38-2	
6020 MET ICPMS, Lab Filtered	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Arsenic	**1.0**	ug/L	0.20	1	03/28/08 10:47	03/31/08 19:07	7440-38-2	

Sample: RB-01 **Lab ID: 20597308** Collected: 03/19/08 14:45 Received: 03/20/08 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Arsenic	ND	ug/L	0.20	1	03/27/08 09:48	03/28/08 18:59	7440-38-2	
6020 MET ICPMS, Lab Filtered	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Arsenic	ND	ug/L	0.20	1	03/28/08 10:47	03/28/08 22:41	7440-38-2	

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QUALITY CONTROL DATA

Project: 2079932 ARCADIS G&M
Pace Project No.: 1070255

QC Batch: MPRP/11697 Analysis Method: EPA 6020
QC Batch Method: EPA 3020 Analysis Description: 6020 MET
Associated Lab Samples: 20597296, 20597302, 20597303, 20597304, 20597305, 20597306, 20597307, 20597308

METHOD BLANK: 456764
Associated Lab Samples: 20597296, 20597302, 20597303, 20597304, 20597305, 20597306, 20597307, 20597308

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Arsenic	ug/L	ND	0.20	

LABORATORY CONTROL SAMPLE: 456765

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	80	79.7	100	85-115	

MATRIX SPIKE SAMPLE: 456766

Parameter	Units	1069995011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	9.4	80	89.0	99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 456767 456768

Parameter	Units	20597833 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	0.92	80	80	76.9	76.7	95	95	70-130	.2	20	

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(612)607-1700

QUALITY CONTROL DATA

Project: 2079932 ARCADIS G&M
Pace Project No.: 1070255

QC Batch: MPRP/11710 Analysis Method: EPA 6020
QC Batch Method: EPA 3020 Analysis Description: 6020 MET Dissolved
Associated Lab Samples: 20597296, 20597302, 20597303, 20597304, 20597305, 20597306, 20597307, 20597308

METHOD BLANK: 457244
Associated Lab Samples: 20597296, 20597302, 20597303, 20597304, 20597305, 20597306, 20597307, 20597308

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Arsenic	ug/L	ND	0.20	

LABORATORY CONTROL SAMPLE: 457245

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	80	73.1	91	85-115	

MATRIX SPIKE SAMPLE: 457246

Parameter	Units	20597296 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	7.3	80	83.9	96	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 457247 457248

Parameter	Units	20597833 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	0.90	80	80	75.8	74.5	94	92	70-130	2	20	

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(612)607-1700

QUALIFIERS

Project: 2079932 ARCADIS G&M
Pace Project No.: 1070255

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

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ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name LA002656.1.13/MS. BLUFFS

Project Location Vicksburg, MS

Laboratory PACE

Project Manager David Escude'

Sampler(s)/Affiliation K Montgomery/G Cook (Arcadis)

Standard T/A!

2079932

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	VOC (8260) 40-ml 5 lines vials HCl	5 VOC (8260) 1 Liter amber glass	Organochlorine Pesticides 500 mL amber glass 4°C	Total Metals (Arsenic) 250 ml plastic HNO3	Diss. Metals (Arsenic) 250 ml plastic HNO3 4°C		Remarks	Total
MW-7	L	3/18/08 1437		3	2	2	1	1		20597296	9
MW-6	L	1410		3	2	0	1	1		302	9
MW-5	L	1726		3	2	2	1	1		303	9
TB-01	L	3-18-08		2	—	—	—	—		314	2
MW-2	L	3/19/08 0949		3	2	2	1	1		304	9
MW-8	L	1110		3	2	2	1	1		305	9
MW-12C	L	1412		3	2	2	1	1		306	9
DUP-01	L	—		3	2	2	1	1		307	9
FB-01	L	1430		3	—	—	—	—		312	3
RB-01	L	1445		3	2	2	1	1		308	9

Sample Matrix: L = Liquid S = Solid A = Air

Total No. of Bottles/Containers 77

Relinquished by: K Montgomery	Organization: ARCADIS	Date 3/19/08	Time 1700	Seal Intact?		
Received by:	Organization:	Date / /	Time	Yes	No	N/A
Relinquished by: Fed Ex	Organization: Fed Ex	Date 3/20/08	Time 1030	Seal Intact?		
Received by: MJ Miller	Organization: Pace	Date 3/20/08	Time 1030	(Yes)	No	N/A

Special Instructions/Remarks: (1) LAB to FILTER!

2.3 – 3.4°

Delivery Method: ☐ In Person ☒ Common Carrier Fed Ex-Priority (SPECIFY) ☐ Lab Courier ☐ Other _____ (SPECIFY)

Sample Condition Upon Receipt

Pace Analytical

Client Name: Pace New Orleans Project # 10702855

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 6724 0344 0094

[redacted]

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes ☐ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____

Thermometer Used 230194010, 72310128 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 0.9°C Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 3/25/08 DR

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☐Yes ☑No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☐Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix:	WT	
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed DR / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: DK **Date:** 3/26/08

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

April 10, 2008

David Escude'
Arcadis Geraghty & Miller
10352 Plaza Americana Dr.
Baton Rouge, LA 70816

RE: Project 2080021
Project ID: LA002656.1.3/MS BLUFFS

Dear David Escude':

Enclosed are the analytical results for sample(s) received by the laboratory on March 21, 2008. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerly,

Cindy Olavesen

Cindy Olavesen
cindy.olavesen@pacelabs.com

ACCREDITED IN ACCORDANCE WITH nelac

REPORT OF LABORATORY ANALYSIS

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New Orleans Laboratory

Sample Cross Reference

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2080021

Client: Arcadis Geraghty & Miller

Project ID: LA002656.1.3/MS BLUFFS

Client Sample ID	Lab ID	Matrix	Collection Date/Time	Received Date/Time
MW-1C	20597833	Water	20-Mar-08 08:24	21-Mar-08 15:40
MW-1A	20597834	Water	20-Mar-08 11:37	21-Mar-08 15:40
RRUW	20597835	Water	20-Mar-08 14:21	21-Mar-08 15:40
MW-14	20597836	Water	20-Mar-08 15:58	21-Mar-08 15:40
PZ-20A	20597837	Water	21-Mar-08 08:47	21-Mar-08 15:40
PZ-20B	20597838	Water	21-Mar-08 10:00	21-Mar-08 15:40
TB-02	20597839	Water	20-Mar-08 00:00	21-Mar-08 15:40

Louisiana Dept. of Environmental Quality (LELAP) - 02006
Louisiana Dept. of Health and Hospitals / Drinking Water - LA050004
Arkansas Dept. of Environmental Quality - LA050004
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environmental - E-10266
Pennsylvania DEP (NELAC) 68-04202
U.S. Dept. of Agricultural Foreign Soil Permit - S-47270

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
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LELAP # 02006

Project: 2080021

Narrative detail for GC semi-volatiles analyses:

Sample 20597838 was apparently inadvertantly spiked with matrix spike solution instead of surrogate solution. There was no pattern for Toxaphene, however, the sample was re-extracted for confirmation. The re-extraction was done outside hold time.

Folr the re-analysis of sample 20597838, there was no Toxaphene detected on the A column so confirmation data was not required. Thus, although the surrogate DCB was not recovered on the B column, no corrective action was necessary.

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Project Narrative

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2080021

Sample Receipt Condition:

All samples were received in accordance with EPA protocol.

Holding Times:

All holding times were met.

Blanks:

The following blank results were above reporting limits:

Batch 99589 sample 20598301 1,2-Dichloroethane

Laboratory Control Samples:

LCS recoveries outside of QC limits are qualified in the Report of Quality Control section.

Matrix Spikes and Duplicates:

MS or MSD recoveries outside of QC limits are qualified in the Report of Quality Control section.

Surrogates:

All surrogate recoveries were within QC limits.

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St. Rose , LA 70087

Phone: 504.469.0333
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LELAP # 02006

Project: 2080021

Analytical Method	Batch	Sample used for QC
EPA 8081	99474	Project sample MW-1C
EPA 8270	99555	Project sample MW-1C
EPA 8260	99589	Project sample MW-1C

For the sample used as the original for the DUP or MS/MSD for the batch:

Project sample means a sample from this project was used.
Client sample means a sample from the same client but in a different project was used.
Batch sample means a sample from the a different client was used.

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Sample Results

Pace Analytical Services, Inc.
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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-1C
Project: 2080021
Project ID: LA002656.1.3/MS BLUFFS
Site: None
Lab ID: 20597833
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99589
Method: EPA 8260

Collected: 20-Mar-08
Received: 21-Mar-08
Prepared: 27-Mar-08
Analyzed: 27-Mar-08 18:14 RMP

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
67-64-1	Acetone	1	A11	ND	10.0	5.90	
75-05-8	Acetonitrile	1		ND	100.	12.5	
107-02-8	Acrolein	1		ND	20.0	9.10	
107-13-1	Acrylonitrile	1		ND	20.0	4.90	
107-05-1	Allyl chloride	1		ND	10.0	1.56	
71-43-2	Benzene	1		ND	5.00	0.117	
75-27-4	Bromodichloromethane	1		ND	5.00	0.206	
75-25-2	Bromoform	1		ND	5.00	0.259	
74-83-9	Bromomethane	1		ND	5.00	1.94	
78-93-3	2-Butanone (MEK)	1	A11	ND	10.0	2.25	
75-15-0	Carbon disulfide	1		ND	5.00	0.257	
56-23-5	Carbon tetrachloride	1		ND	5.00	0.592	
108-90-7	Chlorobenzene	1		ND	5.00	0.119	
75-00-3	Chloroethane	1		ND	5.00	0.647	
67-66-3	Chloroform	1		0.660 J	5.00	0.479	
74-87-3	Chloromethane	1		ND	5.00	0.305	
126-99-8	Chloroprene	1		ND	5.00	0.784	
96-12-8	1,2-Dibromo-3-chloropropane	1		ND	5.00	1.22	
124-48-1	Dibromochloromethane	1		ND	5.00	0.145	
106-93-4	1,2-Dibromoethane (EDB)	1		ND	5.00	0.669	
74-95-3	Dibromomethane	1		ND	5.00	1.39	
110-57-6	trans-1,4-Dichloro-2-butene	1		ND	5.00	1.86	
75-71-8	Dichlorodifluoromethane	1		ND	5.00	0.818	
75-34-3	1,1-Dichloroethane	1		ND	5.00	0.515	
107-06-2	1,2-Dichloroethane	1	B1	ND	5.00	0.212	
75-35-4	1,1-Dichloroethene	1		ND	5.00	0.493	
156-60-5	trans-1,2-Dichloroethene	1		ND	5.00	0.733	
78-87-5	1,2-Dichloropropane	1		ND	5.00	0.328	
10061-01-5	cis-1,3-Dichloropropene	1		ND	5.00	0.0869	
10061-02-6	trans-1,3-Dichloropropene	1		ND	5.00	0.216	

Protocol 4/10/2008 13:26:39

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Louisiana Dept. of Environmental Quality (LELAP) - 02006
Louisiana Dept. of Health and Hospitals / Drinking Water - LA050004
Arkansas Dept. of Environmental Quality - LA050004
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environmental - E-10266
Pennsylvania DEP (NELAC) 68-04202
U.S. Dept. of Agricultural Foreign Soil Permit - S-47270

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Sample Results

Pace Analytical Services, Inc.
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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-1C
Project: 2080021
Project ID: LA002656.1.3/MS BLUFFS
Site: None
Lab ID: 20597833
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99589
Method: EPA 8260

Collected: 20-Mar-08
Received: 21-Mar-08
Prepared: 27-Mar-08
Analyzed: 27-Mar-08 18:14 RMP

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
123-91-1	1,4-Dioxane (p-Dioxane)	1		ND	250.	16.8	
100-41-4	Ethylbenzene	1		ND	5.00	0.119	
97-63-2	Ethyl methacrylate	1		ND	10.0	0.475	
591-78-6	2-Hexanone	1		ND	10.0	0.468	
74-88-4	Iodomethane	1		ND	5.00	0.621	
78-83-1	Isobutanol	1		ND	250.	18.7	
126-98-7	Methacrylonitrile	1		ND	100.	16.2	
75-09-2	Methylene chloride	1	A11	ND	5.00	0.710	
80-62-6	Methyl methacrylate	1		ND	10.0	0.997	
108-10-1	4-Methyl-2-pentanone (MIBK)	1		ND	10.0	0.872	
107-12-0	Propionitrile	1		ND	20.0	6.35	
100-42-5	Styrene	1		ND	5.00	0.0763	
630-20-6	1,1,1,2-Tetrachloroethane	1		ND	5.00	0.291	
79-34-5	1,1,2,2-Tetrachloroethane	1		ND	5.00	0.238	
127-18-4	Tetrachloroethene	1		ND	5.00	0.162	
108-88-3	Toluene	1		ND	5.00	0.131	
71-55-6	1,1,1-Trichloroethane	1		ND	5.00	0.609	
79-00-5	1,1,2-Trichloroethane	1		ND	5.00	0.328	
79-01-6	Trichloroethene	1		20.8	5.00	0.168	
75-69-4	Trichlorofluoromethane	1		ND	5.00	1.57	
96-18-4	1,2,3-Trichloropropane	1		ND	5.00	1.49	
95-63-6	1,2,4-Trimethylbenzene	1		ND	5.00	0.0844	
108-67-8	1,3,5-Trimethylbenzene	1		ND	5.00	0.0614	
108-05-4	Vinyl acetate	1		ND	10.0	0.686	
75-01-4	Vinyl chloride	1		ND	5.00	0.463	
	m&p-Xylene	1		ND	10.0	0.151	
95-47-6	o-Xylene	1		ND	5.00	0.142	

57 compound(s) reported

Protocol 4/10/2008 13:26:39

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

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Florida Dept. of Health (NELAC) - E87595
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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-1C
Project: 2080021
Project ID: LA002656.1.3/MS BLUFFS
Site: None
Lab ID: 20597833
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99555
Method: EPA 8270

Collected: 20-Mar-08
Received: 21-Mar-08
Prepared: 25-Mar-08
Analyzed: 26-Mar-08 19:27 JAM

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
98-86-2	Acetophenone	1		ND	10.0	1.42	
1912-24-9	Atrazine	1		ND	10.0		
21725-46-2	Cyanazine	1		ND	10.0		
88-85-7	Dinoseb	1		44.6	10.0	1.20	
117-81-7	bis(2-Ethylhexyl)phthalate	1	A25	ND	10.0	8.62	
100-02-7	4-Nitrophenol	1		ND	10.0	1.33	
87-86-5	Pentachlorophenol	1		5.85 J	10.0	1.37	

7 compound(s) reported

Protocol 4/10/2008 13:26:39

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-1A
Project: 2080021
Project ID: LA002656.1.3/MS BLUFFS
Site: None
Lab ID: 20597834
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99589
Method: EPA 8260

Collected: 20-Mar-08
Received: 21-Mar-08
Prepared: 27-Mar-08
Analyzed: 27-Mar-08 19:14 RMP

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
67-64-1	Acetone	1	A11	ND	10.0	5.90	
75-05-8	Acetonitrile	1		ND	100.	12.5	
107-02-8	Acrolein	1		ND	20.0	9.10	
107-13-1	Acrylonitrile	1		ND	20.0	4.90	
107-05-1	Allyl chloride	1		ND	10.0	1.56	
71-43-2	Benzene	1		ND	5.00	0.117	
75-27-4	Bromodichloromethane	1		ND	5.00	0.206	
75-25-2	Bromoform	1		ND	5.00	0.259	
74-83-9	Bromomethane	1		ND	5.00	1.94	
78-93-3	2-Butanone (MEK)	1	A11	ND	10.0	2.25	
75-15-0	Carbon disulfide	1		ND	5.00	0.257	
56-23-5	Carbon tetrachloride	1		ND	5.00	0.592	
108-90-7	Chlorobenzene	1		ND	5.00	0.119	
75-00-3	Chloroethane	1		ND	5.00	0.647	
67-66-3	Chloroform	1		0.700 J	5.00	0.479	
74-87-3	Chloromethane	1		ND	5.00	0.305	
126-99-8	Chloroprene	1		ND	5.00	0.784	
96-12-8	1,2-Dibromo-3-chloropropane	1		ND	5.00	1.22	
124-48-1	Dibromochloromethane	1		ND	5.00	0.145	
106-93-4	1,2-Dibromoethane (EDB)	1		ND	5.00	0.669	
74-95-3	Dibromomethane	1		ND	5.00	1.39	
110-57-6	trans-1,4-Dichloro-2-butene	1		ND	5.00	1.86	
75-71-8	Dichlorodifluoromethane	1		ND	5.00	0.818	
75-34-3	1,1-Dichloroethane	1		ND	5.00	0.515	
107-06-2	1,2-Dichloroethane	1	B1	ND	5.00	0.212	
75-35-4	1,1-Dichloroethene	1		ND	5.00	0.493	
156-60-5	trans-1,2-Dichloroethene	1		ND	5.00	0.733	
78-87-5	1,2-Dichloropropane	1		ND	5.00	0.328	
10061-01-5	cis-1,3-Dichloropropene	1		ND	5.00	0.0869	
10061-02-6	trans-1,3-Dichloropropene	1		ND	5.00	0.216	

Protocol 4/10/2008 13:26:39

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-1A
Project: 2080021
Project ID: LA002656.1.3/MS BLUFFS
Site: None
Lab ID: 20597834
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99589
Method: EPA 8260

Collected: 20-Mar-08
Received: 21-Mar-08
Prepared: 27-Mar-08
Analyzed: 27-Mar-08 19:14 RMP

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
123-91-1	1,4-Dioxane (p-Dioxane)	1		ND	250.	16.8	
100-41-4	Ethylbenzene	1		ND	5.00	0.119	
97-63-2	Ethyl methacrylate	1		ND	10.0	0.475	
591-78-6	2-Hexanone	1		ND	10.0	0.468	
74-88-4	Iodomethane	1		ND	5.00	0.621	
78-83-1	Isobutanol	1		ND	250.	18.7	
126-98-7	Methacrylonitrile	1		ND	100.	16.2	
75-09-2	Methylene chloride	1	A11	ND	5.00	0.710	
80-62-6	Methyl methacrylate	1		ND	10.0	0.997	
108-10-1	4-Methyl-2-pentanone (MIBK)	1		ND	10.0	0.872	
107-12-0	Propionitrile	1		ND	20.0	6.35	
100-42-5	Styrene	1		ND	5.00	0.0763	
630-20-6	1,1,1,2-Tetrachloroethane	1		ND	5.00	0.291	
79-34-5	1,1,2,2-Tetrachloroethane	1		ND	5.00	0.238	
127-18-4	Tetrachloroethene	1		ND	5.00	0.162	
108-88-3	Toluene	1		ND	5.00	0.131	
71-55-6	1,1,1-Trichloroethane	1		ND	5.00	0.609	
79-00-5	1,1,2-Trichloroethane	1		ND	5.00	0.328	
79-01-6	Trichloroethene	1		7.53	5.00	0.168	
75-69-4	Trichlorofluoromethane	1		ND	5.00	1.57	
96-18-4	1,2,3-Trichloropropane	1		ND	5.00	1.49	
95-63-6	1,2,4-Trimethylbenzene	1		ND	5.00	0.0844	
108-67-8	1,3,5-Trimethylbenzene	1		ND	5.00	0.0614	
108-05-4	Vinyl acetate	1		ND	10.0	0.686	
75-01-4	Vinyl chloride	1		ND	5.00	0.463	
	m&p-Xylene	1		ND	10.0	0.151	
95-47-6	o-Xylene	1		ND	5.00	0.142	

57 compound(s) reported

Protocol 4/10/2008 13:26:40

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-1A
Project: 2080021
Project ID: LA002656.1.3/MS BLUFFS
Site: None
Lab ID: 20597834
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99555
Method: EPA 8270

Collected: 20-Mar-08
Received: 21-Mar-08
Prepared: 25-Mar-08
Analyzed: 26-Mar-08 19:53 JAM

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
98-86-2	Acetophenone	1		ND	10.0	1.42	
1912-24-9	Atrazine	1		ND	10.0		
21725-46-2	Cyanazine	1		ND	10.0		
88-85-7	Dinoseb	1		55.2	10.0	1.20	
117-81-7	bis(2-Ethylhexyl)phthalate	1	A25	ND	10.0	8.62	
100-02-7	4-Nitrophenol	1		ND	10.0	1.33	
87-86-5	Pentachlorophenol	1		ND	10.0	1.37	

7 compound(s) reported

Protocol 4/10/2008 13:26:40

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: RRUW
Project: 2080021
Project ID: LA002656.1.3/MS BLUFFS
Site: None
Lab ID: 20597835
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99589
Method: EPA 8260

Collected: 20-Mar-08
Received: 21-Mar-08
Prepared: 27-Mar-08
Analyzed: 27-Mar-08 19:34 RMP

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
67-64-1	Acetone	1	A11	ND	10.0	5.90	
75-05-8	Acetonitrile	1		ND	100.	12.5	
107-02-8	Acrolein	1		ND	20.0	9.10	
107-13-1	Acrylonitrile	1		ND	20.0	4.90	
107-05-1	Allyl chloride	1		ND	10.0	1.56	
71-43-2	Benzene	1		ND	5.00	0.117	
75-27-4	Bromodichloromethane	1		ND	5.00	0.206	
75-25-2	Bromoform	1		ND	5.00	0.259	
74-83-9	Bromomethane	1		ND	5.00	1.94	
78-93-3	2-Butanone (MEK)	1	A11	ND	10.0	2.25	
75-15-0	Carbon disulfide	1		ND	5.00	0.257	
56-23-5	Carbon tetrachloride	1		ND	5.00	0.592	
108-90-7	Chlorobenzene	1		ND	5.00	0.119	
75-00-3	Chloroethane	1		ND	5.00	0.647	
67-66-3	Chloroform	1		0.550 J	5.00	0.479	
74-87-3	Chloromethane	1		ND	5.00	0.305	
126-99-8	Chloroprene	1		ND	5.00	0.784	
96-12-8	1,2-Dibromo-3-chloropropane	1		ND	5.00	1.22	
124-48-1	Dibromochloromethane	1		ND	5.00	0.145	
106-93-4	1,2-Dibromoethane (EDB)	1		ND	5.00	0.669	
74-95-3	Dibromomethane	1		ND	5.00	1.39	
110-57-6	trans-1,4-Dichloro-2-butene	1		ND	5.00	1.86	
75-71-8	Dichlorodifluoromethane	1		ND	5.00	0.818	
75-34-3	1,1-Dichloroethane	1		ND	5.00	0.515	
107-06-2	1,2-Dichloroethane	1	B1	ND	5.00	0.212	
75-35-4	1,1-Dichloroethene	1		ND	5.00	0.493	
156-60-5	trans-1,2-Dichloroethene	1		ND	5.00	0.733	
78-87-5	1,2-Dichloropropane	1		ND	5.00	0.328	
10061-01-5	cis-1,3-Dichloropropene	1		ND	5.00	0.0869	
10061-02-6	trans-1,3-Dichloropropene	1		ND	5.00	0.216	

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: RRUW
Project: 2080021
Project ID: LA002656.1.3/MS BLUFFS
Site: None
Lab ID: 20597835
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99589
Method: EPA 8260

Collected: 20-Mar-08
Received: 21-Mar-08
Prepared: 27-Mar-08
Analyzed: 27-Mar-08 19:34 RMP

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
123-91-1	1,4-Dioxane (p-Dioxane)	1		ND	250.	16.8	
100-41-4	Ethylbenzene	1		ND	5.00	0.119	
97-63-2	Ethyl methacrylate	1		ND	10.0	0.475	
591-78-6	2-Hexanone	1		ND	10.0	0.468	
74-88-4	Iodomethane	1		ND	5.00	0.621	
78-83-1	Isobutanol	1		ND	250.	18.7	
126-98-7	Methacrylonitrile	1		ND	100.	16.2	
75-09-2	Methylene chloride	1	A11	ND	5.00	0.710	
80-62-6	Methyl methacrylate	1		ND	10.0	0.997	
108-10-1	4-Methyl-2-pentanone (MIBK)	1		ND	10.0	0.872	
107-12-0	Propionitrile	1		ND	20.0	6.35	
100-42-5	Styrene	1		ND	5.00	0.0763	
630-20-6	1,1,1,2-Tetrachloroethane	1		ND	5.00	0.291	
79-34-5	1,1,2,2-Tetrachloroethane	1		ND	5.00	0.238	
127-18-4	Tetrachloroethene	1		ND	5.00	0.162	
108-88-3	Toluene	1		ND	5.00	0.131	
71-55-6	1,1,1-Trichloroethane	1		ND	5.00	0.609	
79-00-5	1,1,2-Trichloroethane	1		ND	5.00	0.328	
79-01-6	Trichloroethene	1		1.96 J	5.00	0.168	
75-69-4	Trichlorofluoromethane	1		ND	5.00	1.57	
96-18-4	1,2,3-Trichloropropane	1		ND	5.00	1.49	
95-63-6	1,2,4-Trimethylbenzene	1		ND	5.00	0.0844	
108-67-8	1,3,5-Trimethylbenzene	1		ND	5.00	0.0614	
108-05-4	Vinyl acetate	1		ND	10.0	0.686	
75-01-4	Vinyl chloride	1		ND	5.00	0.463	
	m&p-Xylene	1		ND	10.0	0.151	
95-47-6	o-Xylene	1		ND	5.00	0.142	

57 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: RRUW
Project: 2080021
Project ID: LA002656.1.3/MS BLUFFS
Site: None
Lab ID: 20597835
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99555
Method: EPA 8270

Collected: 20-Mar-08
Received: 21-Mar-08
Prepared: 25-Mar-08
Analyzed: 26-Mar-08 20:19 JAM

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
98-86-2	Acetophenone	1		ND	10.0	1.42	
1912-24-9	Atrazine	1		ND	10.0		
21725-46-2	Cyanazine	1		ND	10.0		
88-85-7	Dinoseb	1		63.2	10.0	1.20	
117-81-7	bis(2-Ethylhexyl)phthalate	1	A25	ND	10.0	8.62	
100-02-7	4-Nitrophenol	1		ND	10.0	1.33	
87-86-5	Pentachlorophenol	1		3.89 J	10.0	1.37	

7 compound(s) reported

Protocol 4/10/2008 13:26:40

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-14
Project: 2080021
Project ID: LA002656.1.3/MS BLUFFS
Site: None
Lab ID: 20597836
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99589
Method: EPA 8260

Collected: 20-Mar-08
Received: 21-Mar-08
Prepared: 27-Mar-08
Analyzed: 27-Mar-08 19:54 RMP

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
67-64-1	Acetone	1	A11	ND	10.0	5.90	
75-05-8	Acetonitrile	1		ND	100.	12.5	
107-02-8	Acrolein	1		ND	20.0	9.10	
107-13-1	Acrylonitrile	1		ND	20.0	4.90	
107-05-1	Allyl chloride	1		ND	10.0	1.56	
71-43-2	Benzene	1		ND	5.00	0.117	
75-27-4	Bromodichloromethane	1		ND	5.00	0.206	
75-25-2	Bromoform	1		ND	5.00	0.259	
74-83-9	Bromomethane	1		ND	5.00	1.94	
78-93-3	2-Butanone (MEK)	1	A11	ND	10.0	2.25	
75-15-0	Carbon disulfide	1		ND	5.00	0.257	
56-23-5	Carbon tetrachloride	1		ND	5.00	0.592	
108-90-7	Chlorobenzene	1		ND	5.00	0.119	
75-00-3	Chloroethane	1		ND	5.00	0.647	
67-66-3	Chloroform	1		ND	5.00	0.479	
74-87-3	Chloromethane	1		ND	5.00	0.305	
126-99-8	Chloroprene	1		ND	5.00	0.784	
96-12-8	1,2-Dibromo-3-chloropropane	1		ND	5.00	1.22	
124-48-1	Dibromochloromethane	1		ND	5.00	0.145	
106-93-4	1,2-Dibromoethane (EDB)	1		ND	5.00	0.669	
74-95-3	Dibromomethane	1		ND	5.00	1.39	
110-57-6	trans-1,4-Dichloro-2-butene	1		ND	5.00	1.86	
75-71-8	Dichlorodifluoromethane	1		ND	5.00	0.818	
75-34-3	1,1-Dichloroethane	1		ND	5.00	0.515	
107-06-2	1,2-Dichloroethane	1	B1	ND	5.00	0.212	
75-35-4	1,1-Dichloroethene	1		ND	5.00	0.493	
156-60-5	trans-1,2-Dichloroethene	1		ND	5.00	0.733	
78-87-5	1,2-Dichloropropane	1		ND	5.00	0.328	
10061-01-5	cis-1,3-Dichloropropene	1		ND	5.00	0.0869	
10061-02-6	trans-1,3-Dichloropropene	1		ND	5.00	0.216	

Protocol 4/10/2008 13:26:40

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Louisiana Dept. of Environmental Quality (LELAP) - 02006
Louisiana Dept. of Health and Hospitals / Drinking Water - LA050004
Arkansas Dept. of Environmental Quality - LA050004
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environmental - E-10266
Pennsylvania DEP (NELAC) 68-04202
U.S. Dept. of Agricultural Foreign Soil Permit - S-47270

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Sample Results

Pace Analytical Services, Inc.
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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-14
Project: 2080021
Project ID: LA002656.1.3/MS BLUFFS
Site: None
Lab ID: 20597836
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99589
Method: EPA 8260

Collected: 20-Mar-08
Received: 21-Mar-08
Prepared: 27-Mar-08
Analyzed: 27-Mar-08 19:54 RMP

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
123-91-1	1,4-Dioxane (p-Dioxane)	1		ND	250.	16.8	
100-41-4	Ethylbenzene	1		ND	5.00	0.119	
97-63-2	Ethyl methacrylate	1		ND	10.0	0.475	
591-78-6	2-Hexanone	1		ND	10.0	0.468	
74-88-4	Iodomethane	1		ND	5.00	0.621	
78-83-1	Isobutanol	1		ND	250.	18.7	
126-98-7	Methacrylonitrile	1		ND	100.	16.2	
75-09-2	Methylene chloride	1	A11	ND	5.00	0.710	
80-62-6	Methyl methacrylate	1		ND	10.0	0.997	
108-10-1	4-Methyl-2-pentanone (MIBK)	1		ND	10.0	0.872	
107-12-0	Propionitrile	1		ND	20.0	6.35	
100-42-5	Styrene	1		ND	5.00	0.0763	
630-20-6	1,1,1,2-Tetrachloroethane	1		ND	5.00	0.291	
79-34-5	1,1,2,2-Tetrachloroethane	1		ND	5.00	0.238	
127-18-4	Tetrachloroethene	1		ND	5.00	0.162	
108-88-3	Toluene	1		ND	5.00	0.131	
71-55-6	1,1,1-Trichloroethane	1		ND	5.00	0.609	
79-00-5	1,1,2-Trichloroethane	1		ND	5.00	0.328	
79-01-6	Trichloroethene	1		ND	5.00	0.168	
75-69-4	Trichlorofluoromethane	1		ND	5.00	1.57	
96-18-4	1,2,3-Trichloropropane	1		ND	5.00	1.49	
95-63-6	1,2,4-Trimethylbenzene	1		ND	5.00	0.0844	
108-67-8	1,3,5-Trimethylbenzene	1		ND	5.00	0.0614	
108-05-4	Vinyl acetate	1		ND	10.0	0.686	
75-01-4	Vinyl chloride	1		ND	5.00	0.463	
	m&p-Xylene	1		ND	10.0	0.151	
95-47-6	o-Xylene	1		ND	5.00	0.142	

57 compound(s) reported

Protocol 4/10/2008 13:26:40

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MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-14
Project ID: LA002656.1.3/MS BLUFFS
Lab ID: 20597836
Description: None
Method: EPA 8270

Project: 2080021
Site: None
Matrix: Water
Prep Level: Water

% Moisture: n/a
Batch: 99555

Collected: 20-Mar-08
Received: 21-Mar-08
Prepared: 25-Mar-08
Analyzed: 26-Mar-08 20:45 JAM

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
98-86-2	Acetophenone	1		ND	10.0	1.42	
1912-24-9	Atrazine	1		ND	10.0		
21725-46-2	Cyanazine	1		ND	10.0		
88-85-7	Dinoseb	1		ND	10.0	1.20	
117-81-7	bis(2-Ethylhexyl)phthalate	1	A25	ND	10.0	8.62	
100-02-7	4-Nitrophenol	1		ND	10.0	1.33	
87-86-5	Pentachlorophenol	1		ND	10.0	1.37	

7 compound(s) reported

Protocol 4/10/2008 13:26:40

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-20A
Project: 2080021
Project ID: LA002656.1.3/MS BLUFFS
Site: None
Lab ID: 20597837
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99589
Method: EPA 8260

Collected: 21-Mar-08
Received: 21-Mar-08
Prepared: 27-Mar-08
Analyzed: 27-Mar-08 20:14 RMP

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
67-64-1	Acetone	1	A11	ND	10.0	5.90	
75-05-8	Acetonitrile	1		ND	100.	12.5	
107-02-8	Acrolein	1		ND	20.0	9.10	
107-13-1	Acrylonitrile	1		ND	20.0	4.90	
107-05-1	Allyl chloride	1		ND	10.0	1.56	
71-43-2	Benzene	1		ND	5.00	0.117	
75-27-4	Bromodichloromethane	1		ND	5.00	0.206	
75-25-2	Bromoform	1		ND	5.00	0.259	
74-83-9	Bromomethane	1		ND	5.00	1.94	
78-93-3	2-Butanone (MEK)	1	A11	ND	10.0	2.25	
75-15-0	Carbon disulfide	1		ND	5.00	0.257	
56-23-5	Carbon tetrachloride	1		ND	5.00	0.592	
108-90-7	Chlorobenzene	1		ND	5.00	0.119	
75-00-3	Chloroethane	1		ND	5.00	0.647	
67-66-3	Chloroform	1		ND	5.00	0.479	
74-87-3	Chloromethane	1		ND	5.00	0.305	
126-99-8	Chloroprene	1		ND	5.00	0.784	
96-12-8	1,2-Dibromo-3-chloropropane	1		ND	5.00	1.22	
124-48-1	Dibromochloromethane	1		ND	5.00	0.145	
106-93-4	1,2-Dibromoethane (EDB)	1		ND	5.00	0.669	
74-95-3	Dibromomethane	1		ND	5.00	1.39	
110-57-6	trans-1,4-Dichloro-2-butene	1		ND	5.00	1.86	
75-71-8	Dichlorodifluoromethane	1		ND	5.00	0.818	
75-34-3	1,1-Dichloroethane	1		ND	5.00	0.515	
107-06-2	1,2-Dichloroethane	1	B1	ND	5.00	0.212	
75-35-4	1,1-Dichloroethene	1		ND	5.00	0.493	
156-60-5	trans-1,2-Dichloroethene	1		ND	5.00	0.733	
78-87-5	1,2-Dichloropropane	1		ND	5.00	0.328	
10061-01-5	cis-1,3-Dichloropropene	1		ND	5.00	0.0869	
10061-02-6	trans-1,3-Dichloropropene	1		ND	5.00	0.216	

Protocol 4/10/2008 13:26:40

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-20A
Project: 2080021
Project ID: LA002656.1.3/MS BLUFFS
Site: None
Lab ID: 20597837
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99589
Method: EPA 8260

Collected: 21-Mar-08
Received: 21-Mar-08
Prepared: 27-Mar-08
Analyzed: 27-Mar-08 20:14 RMP

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
123-91-1	1,4-Dioxane (p-Dioxane)	1		ND	250.	16.8	
100-41-4	Ethylbenzene	1		ND	5.00	0.119	
97-63-2	Ethyl methacrylate	1		ND	10.0	0.475	
591-78-6	2-Hexanone	1		ND	10.0	0.468	
74-88-4	Iodomethane	1		ND	5.00	0.621	
78-83-1	Isobutanol	1		ND	250.	18.7	
126-98-7	Methacrylonitrile	1		ND	100.	16.2	
75-09-2	Methylene chloride	1	A11	ND	5.00	0.710	
80-62-6	Methyl methacrylate	1		ND	10.0	0.997	
108-10-1	4-Methyl-2-pentanone (MIBK)	1		ND	10.0	0.872	
107-12-0	Propionitrile	1		ND	20.0	6.35	
100-42-5	Styrene	1		ND	5.00	0.0763	
630-20-6	1,1,1,2-Tetrachloroethane	1		ND	5.00	0.291	
79-34-5	1,1,2,2-Tetrachloroethane	1		ND	5.00	0.238	
127-18-4	Tetrachloroethene	1		ND	5.00	0.162	
108-88-3	Toluene	1		ND	5.00	0.131	
71-55-6	1,1,1-Trichloroethane	1		ND	5.00	0.609	
79-00-5	1,1,2-Trichloroethane	1		ND	5.00	0.328	
79-01-6	Trichloroethene	1		ND	5.00	0.168	
75-69-4	Trichlorofluoromethane	1		ND	5.00	1.57	
96-18-4	1,2,3-Trichloropropane	1		ND	5.00	1.49	
95-63-6	1,2,4-Trimethylbenzene	1		ND	5.00	0.0844	
108-67-8	1,3,5-Trimethylbenzene	1		ND	5.00	0.0614	
108-05-4	Vinyl acetate	1		ND	10.0	0.686	
75-01-4	Vinyl chloride	1		ND	5.00	0.463	
	m&p-Xylene	1		ND	10.0	0.151	
95-47-6	o-Xylene	1		ND	5.00	0.142	

57 compound(s) reported

Protocol 4/10/2008 13:26:40

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Arkansas Dept. of Environmental Quality - LA050004
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environmental - E-10266
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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-20A
Project: 2080021
Project ID: LA002656.1.3/MS BLUFFS
Site: None
Lab ID: 20597837
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99555
Method: EPA 8270

Collected: 21-Mar-08
Received: 21-Mar-08
Prepared: 25-Mar-08
Analyzed: 26-Mar-08 21:10 JAM

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
98-86-2	Acetophenone	1		ND	10.0	1.42	
1912-24-9	Atrazine	1		ND	10.0		
21725-46-2	Cyanazine	1		ND	10.0		
88-85-7	Dinoseb	1		ND	10.0	1.20	
117-81-7	bis(2-Ethylhexyl)phthalate	1	A25	ND	10.0	8.62	
100-02-7	4-Nitrophenol	1		ND	10.0	1.33	
87-86-5	Pentachlorophenol	1		ND	10.0	1.37	

7 compound(s) reported

Protocol 4/10/2008 13:26:40

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MDL denotes method detection limit

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-20B
Project: 2080021
Project ID: LA002656.1.3/MS BLUFFS
Site: None
Lab ID: 20597838
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99589
Method: EPA 8260

Collected: 21-Mar-08
Received: 21-Mar-08
Prepared: 27-Mar-08
Analyzed: 27-Mar-08 20:34 RMP

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
67-64-1	Acetone	1	A11	ND	10.0	5.90	
75-05-8	Acetonitrile	1		ND	100.	12.5	
107-02-8	Acrolein	1		ND	20.0	9.10	
107-13-1	Acrylonitrile	1		ND	20.0	4.90	
107-05-1	Allyl chloride	1		ND	10.0	1.56	
71-43-2	Benzene	1		ND	5.00	0.117	
75-27-4	Bromodichloromethane	1		17.7	5.00	0.206	
75-25-2	Bromoform	1		23.6	5.00	0.259	
74-83-9	Bromomethane	1		ND	5.00	1.94	
78-93-3	2-Butanone (MEK)	1	A11	ND	10.0	2.25	
75-15-0	Carbon disulfide	1		ND	5.00	0.257	
56-23-5	Carbon tetrachloride	1		ND	5.00	0.592	
108-90-7	Chlorobenzene	1		ND	5.00	0.119	
75-00-3	Chloroethane	1		ND	5.00	0.647	
67-66-3	Chloroform	50	D1	2530	250.	24.0	
74-87-3	Chloromethane	1		0.750 J	5.00	0.305	
126-99-8	Chloroprene	1		ND	5.00	0.784	
96-12-8	1,2-Dibromo-3-chloropropane	1		ND	5.00	1.22	
124-48-1	Dibromochloromethane	1		8.70	5.00	0.145	
106-93-4	1,2-Dibromoethane (EDB)	1		ND	5.00	0.669	
74-95-3	Dibromomethane	1		ND	5.00	1.39	
110-57-6	trans-1,4-Dichloro-2-butene	1		ND	5.00	1.86	
75-71-8	Dichlorodifluoromethane	1		ND	5.00	0.818	
75-34-3	1,1-Dichloroethane	1		4.14 J	5.00	0.515	
107-06-2	1,2-Dichloroethane	1	B1	1.21 J	5.00	0.212	
75-35-4	1,1-Dichloroethene	1		ND	5.00	0.493	
156-60-5	trans-1,2-Dichloroethene	1		ND	5.00	0.733	
78-87-5	1,2-Dichloropropane	1		0.860 J	5.00	0.328	
10061-01-5	cis-1,3-Dichloropropene	1		ND	5.00	0.0869	
10061-02-6	trans-1,3-Dichloropropene	1		ND	5.00	0.216	

Protocol 4/10/2008 13:26:40

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-20B
Project: 2080021
Project ID: LA002656.1.3/MS BLUFFS
Site: None
Lab ID: 20597838
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99589
Method: EPA 8260

Collected: 21-Mar-08
Received: 21-Mar-08
Prepared: 27-Mar-08
Analyzed: 27-Mar-08 20:34 RMP

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
123-91-1	1,4-Dioxane (p-Dioxane)	1		ND	250.	16.8	
100-41-4	Ethylbenzene	1		ND	5.00	0.119	
97-63-2	Ethyl methacrylate	1		ND	10.0	0.475	
591-78-6	2-Hexanone	1		ND	10.0	0.468	
74-88-4	Iodomethane	1		ND	5.00	0.621	
78-83-1	Isobutanol	1		ND	250.	18.7	
126-98-7	Methacrylonitrile	1		ND	100.	16.2	
75-09-2	Methylene chloride	1	A11	14.4	5.00	0.710	
80-62-6	Methyl methacrylate	1		ND	10.0	0.997	
108-10-1	4-Methyl-2-pentanone (MIBK)	1		ND	10.0	0.872	
107-12-0	Propionitrile	1		ND	20.0	6.35	
100-42-5	Styrene	1		ND	5.00	0.0763	
630-20-6	1,1,1,2-Tetrachloroethane	1		ND	5.00	0.291	
79-34-5	1,1,2,2-Tetrachloroethane	1		ND	5.00	0.238	
127-18-4	Tetrachloroethene	1		ND	5.00	0.162	
108-88-3	Toluene	1		ND	5.00	0.131	
71-55-6	1,1,1-Trichloroethane	1		ND	5.00	0.609	
79-00-5	1,1,2-Trichloroethane	1		ND	5.00	0.328	
79-01-6	Trichloroethene	1		1.03 J	5.00	0.168	
75-69-4	Trichlorofluoromethane	1		ND	5.00	1.57	
96-18-4	1,2,3-Trichloropropane	1		ND	5.00	1.49	
95-63-6	1,2,4-Trimethylbenzene	1		ND	5.00	0.0844	
108-67-8	1,3,5-Trimethylbenzene	1		ND	5.00	0.0614	
108-05-4	Vinyl acetate	1		ND	10.0	0.686	
75-01-4	Vinyl chloride	1		ND	5.00	0.463	
	m&p-Xylene	1		ND	10.0	0.151	
95-47-6	o-Xylene	1		ND	5.00	0.142	

57 compound(s) reported

Protocol 4/10/2008 13:26:40

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Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-20B
Project: 2080021
Project ID: LA002656.1.3/MS BLUFFS
Site: None
Lab ID: 20597838
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99555
Method: EPA 8270

Collected: 21-Mar-08
Received: 21-Mar-08
Prepared: 25-Mar-08
Analyzed: 27-Mar-08 01:57 JAM

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
98-86-2	Acetophenone	1		ND	10.0	1.42	
1912-24-9	Atrazine	1		ND	10.0		
21725-46-2	Cyanazine	1		ND	10.0		
88-85-7	Dinoseb	1		ND	10.0	1.20	
117-81-7	bis(2-Ethylhexyl)phthalate	1	A25	ND	10.0	8.62	
100-02-7	4-Nitrophenol	1		ND	10.0	1.33	
87-86-5	Pentachlorophenol	1		ND	10.0	1.37	

7 compound(s) reported

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: TB-02
Project: 2080021
Project ID: LA002656.1.3/MS BLUFFS
Site: None
Lab ID: 20597839
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99589
Method: EPA 8260

Collected: 20-Mar-08
Received: 21-Mar-08
Prepared: 28-Mar-08
Analyzed: 28-Mar-08 14:24 RMP

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
67-64-1	Acetone	1	A11	ND	10.0	5.90	
75-05-8	Acetonitrile	1		ND	100.	12.5	
107-02-8	Acrolein	1		ND	20.0	9.10	
107-13-1	Acrylonitrile	1		ND	20.0	4.90	
107-05-1	Allyl chloride	1		ND	10.0	1.56	
71-43-2	Benzene	1		ND	5.00	0.117	
75-27-4	Bromodichloromethane	1		ND	5.00	0.206	
75-25-2	Bromoform	1		ND	5.00	0.259	
74-83-9	Bromomethane	1		ND	5.00	1.94	
78-93-3	2-Butanone (MEK)	1	A11	ND	10.0	2.25	
75-15-0	Carbon disulfide	1		ND	5.00	0.257	
56-23-5	Carbon tetrachloride	1		ND	5.00	0.592	
108-90-7	Chlorobenzene	1		ND	5.00	0.119	
75-00-3	Chloroethane	1		ND	5.00	0.647	
67-66-3	Chloroform	1		ND	5.00	0.479	
74-87-3	Chloromethane	1		ND	5.00	0.305	
126-99-8	Chloroprene	1		ND	5.00	0.784	
96-12-8	1,2-Dibromo-3-chloropropane	1		ND	5.00	1.22	
124-48-1	Dibromochloromethane	1		ND	5.00	0.145	
106-93-4	1,2-Dibromoethane (EDB)	1		ND	5.00	0.669	
74-95-3	Dibromomethane	1		ND	5.00	1.39	
110-57-6	trans-1,4-Dichloro-2-butene	1		ND	5.00	1.86	
75-71-8	Dichlorodifluoromethane	1		ND	5.00	0.818	
75-34-3	1,1-Dichloroethane	1		ND	5.00	0.515	
107-06-2	1,2-Dichloroethane	1	B1	ND	5.00	0.212	
75-35-4	1,1-Dichloroethene	1		ND	5.00	0.493	
156-60-5	trans-1,2-Dichloroethene	1		ND	5.00	0.733	
78-87-5	1,2-Dichloropropane	1		ND	5.00	0.328	
10061-01-5	cis-1,3-Dichloropropene	1		ND	5.00	0.0869	
10061-02-6	trans-1,3-Dichloropropene	1		ND	5.00	0.216	

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: TB-02
Project: 2080021
Project ID: LA002656.1.3/MS BLUFFS
Site: None
Lab ID: 20597839
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99589
Method: EPA 8260

Collected: 20-Mar-08
Received: 21-Mar-08
Prepared: 28-Mar-08
Analyzed: 28-Mar-08 14:24 RMP

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result		Reporting Limit	MDL	Reg Limit
123-91-1	1,4-Dioxane (p-Dioxane)	1		ND		250.	16.8	
100-41-4	Ethylbenzene	1		ND		5.00	0.119	
97-63-2	Ethyl methacrylate	1		ND		10.0	0.475	
591-78-6	2-Hexanone	1		ND		10.0	0.468	
74-88-4	Iodomethane	1		ND		5.00	0.621	
78-83-1	Isobutanol	1		ND		250.	18.7	
126-98-7	Methacrylonitrile	1		ND		100.	16.2	
75-09-2	Methylene chloride	1	A11	1.51	J	5.00	0.710	
80-62-6	Methyl methacrylate	1		ND		10.0	0.997	
108-10-1	4-Methyl-2-pentanone (MIBK)	1		ND		10.0	0.872	
107-12-0	Propionitrile	1		ND		20.0	6.35	
100-42-5	Styrene	1		ND		5.00	0.0763	
630-20-6	1,1,1,2-Tetrachloroethane	1		ND		5.00	0.291	
79-34-5	1,1,2,2-Tetrachloroethane	1		ND		5.00	0.238	
127-18-4	Tetrachloroethene	1		ND		5.00	0.162	
108-88-3	Toluene	1		ND		5.00	0.131	
71-55-6	1,1,1-Trichloroethane	1		ND		5.00	0.609	
79-00-5	1,1,2-Trichloroethane	1		ND		5.00	0.328	
79-01-6	Trichloroethene	1		ND		5.00	0.168	
75-69-4	Trichlorofluoromethane	1		ND		5.00	1.57	
96-18-4	1,2,3-Trichloropropane	1		ND		5.00	1.49	
95-63-6	1,2,4-Trimethylbenzene	1		ND		5.00	0.0844	
108-67-8	1,3,5-Trimethylbenzene	1		ND		5.00	0.0614	
108-05-4	Vinyl acetate	1		ND		10.0	0.686	
75-01-4	Vinyl chloride	1		ND		5.00	0.463	
	m&p-Xylene	1		ND		10.0	0.151	
95-47-6	o-Xylene	1		ND		5.00	0.142	

57 compound(s) reported

Protocol 4/10/2008 13:26:40

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-1C
Project: 2080021
Project ID: LA002656.1.3/MS BLUFFS
Site: None
Lab ID: 20597833
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99474
Method: EPA 8081

Collected: 20-Mar-08
Received: 21-Mar-08
Prepared: 24-Mar-08
Analyzed: 29-Mar-08 19:58 SLF

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
8001-35-2	Toxaphene	1		ND	2.00	2.00	

1 compound(s) reported

Protocol 4/10/2008 13:26:41

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-1A
Project: 2080021
Project ID: LA002656.1.3/MS BLUFFS
Site: None
Lab ID: 20597834
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99474
Method: EPA 8081

Collected: 20-Mar-08
Received: 21-Mar-08
Prepared: 24-Mar-08
Analyzed: 29-Mar-08 21:13 SLF

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
8001-35-2	Toxaphene	1		ND	2.00	2.00	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: RRUW
Project: 2080021
Project ID: LA002656.1.3/MS BLUFFS
Site: None
Lab ID: 20597835
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99474
Method: EPA 8081

Collected: 20-Mar-08
Received: 21-Mar-08
Prepared: 24-Mar-08
Analyzed: 29-Mar-08 21:38 SLF

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
8001-35-2	Toxaphene	1		ND	2.00	2.00	

1 compound(s) reported

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Client: Arcadis Geraghty & Miller

Client ID: MW-14
Project: 2080021
Project ID: LA002656.1.3/MS BLUFFS
Site: None
Lab ID: 20597836
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99474
Method: EPA 8081

Collected: 20-Mar-08
Received: 21-Mar-08
Prepared: 24-Mar-08
Analyzed: 29-Mar-08 22:03 SLF

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
8001-35-2	Toxaphene	1		ND	2.00	2.00	

1 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-20A
Project: 2080021
Project ID: LA002656.1.3/MS BLUFFS
Site: None
Lab ID: 20597837
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99474
Method: EPA 8081

Collected: 21-Mar-08
Received: 21-Mar-08
Prepared: 24-Mar-08
Analyzed: 29-Mar-08 22:27 SLF

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
8001-35-2	Toxaphene	1		ND	2.00	2.00	

1 compound(s) reported

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-20B
Project: 2080021
Project ID: LA002656.1.3/MS BLUFFS
Site: None
Lab ID: 20597838
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99474
Method: EPA 8081

Collected: 21-Mar-08
Received: 21-Mar-08
Prepared: 24-Mar-08
Analyzed: 29-Mar-08 22:52 SLF

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
8001-35-2	Toxaphene	1	N	ND	2.00	2.00	

1 compound(s) reported

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MDL denotes method detection limit

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-20B
Project: 2080021
Project ID: LA002656.1.3/MS BLUFFS
Site: None
Lab ID: 20597838RE1
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99990
Method: EPA 8081

Collected: 21-Mar-08
Received: 21-Mar-08
Prepared: 03-Apr-08
Analyzed: 09-Apr-08 18:14 SLF

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
8001-35-2	Toxaphene	1	N	ND	2.00	2.00	

1 compound(s) reported

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MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
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Phone: 504.469.0333
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LELAP # 02006

Method: EPA 8260 **Project:** 2080021 **LCS:** 20598959 27-Mar-08 17:34

Batch: 99589 **MS:** 20598303 27-Mar-08 18:34

MSD: 20598304 27-Mar-08 18:54

Units: ug/L **Original for MS:** 20597833 Project Sample

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Acetone	50	66.1	132	50	0.00	77.44	72.96	155	146	6	22 - 165	11 - 217	20	M11,Q5
Acetonitrile	550	883.6	161	550	0.00	874.1	893.8	159	163	2	15 - 171	10 - 261	20	Q5
Acrolein	100	39.42	39	100	0.00	43.97	46.31	44	46	5	10 - 131	10 - 142	20	Q5
Acrylonitrile	150	140.7	94	150	0.00	179.1	179.3	119	120	0	18 - 149	20 - 164	20	Q5
Allyl chloride	100	92.27	92	100	0.00	89.19	91.54	89	92	3	52 - 127	51 - 129	20	Q5
Benzene	50	58.26	117	50	0.00	38.87	45.4	78	91	15	62 - 131	52 - 141	20	Q5
Bromodichloromethane	50	59.02	118	50	0.00	59.38	61.8	119	124	4	69 - 132	70 - 134	20	Q5
Bromoform	50	57.08	114	50	0.00	67.8	62.72	136	125	8	35 - 166	37 - 171	20	Q5
Bromomethane	50	38.74	78	50	0.00	39.59	40.43	79	81	2	34 - 158	34 - 155	20	Q5
2-Butanone (MEK)	50	39.3	79	50	0.00	45.58	45.5	91	91	0	32 - 183	20 - 205	20	M11,Q5
Carbon disulfide	50	39.86	80	50	0.00	36.74	37.49	74	75	2	31 - 128	28 - 130	20	Q5
Carbon tetrachloride	50	52.62	105	50	0.00	49.94	51.66	100	103	3	54 - 144	48 - 146	20	Q5
Chlorobenzene	50	56.45	113	50	0.00	60.2	57.29	120	115	5	70 - 127	67 - 129	20	Q5
Chloroethane	50	45.4	91	50	0.00	42.27	43.88	85	88	4	17 - 195	12 - 192	20	Q5
Chloroform	50	48.36	97	50	0.66	50.2	51.03	99	101	2	73 - 134	66 - 143	20	Q5
Chloromethane	50	47.6	95	50	0.00	47.67	47.37	95	95	1	17 - 153	14 - 155	20	Q5
Chloroprene	50	47.65	95	50	0.00	48.46	48.69	97	97	0	55 - 137	50 - 134	20	Q5
1,2-Dibromo-3-chloropropa	50	68.7	137	50	0.00	73.12	77.5	146	155	6	21 - 160	23 - 166	20	Q5
Dibromochloromethane	50	59.27	119	50	0.00	69.67	63.34	139	127	10	49 - 146	50 - 150	20	Q5
1,2-Dibromoethane (EDB)	50	56.73	113	50	0.00	62.65	65.3	125	131	4	52 - 161	55 - 166	20	Q5
Dibromomethane	50	52.56	105	50	0.00	57.82	60.3	116	121	4	56 - 145	58 - 153	20	Q5
trans-1,4-Dichloro-2-butene	100	136.4	136	100	0.00	152.2	158	152	158	4	21 - 157	23 - 163	20	Q5
1,1-Dichloroethane	50	48.86	98	50	0.00	50.08	50.56	100	101	1	63 - 129	59 - 133	20	Q5
1,2-Dichloroethane	50	49.56	99	50	0.00	54.27	55.6	109	111	2	57 - 148	56 - 154	20	Q5
1,1-Dichloroethene	50	42.32	85	50	0.00	39.66	40.02	79	80	1	51 - 139	44 - 146	20	Q5
trans-1,2-Dichloroethene	50	44.5	89	50	0.00	43.5	45.27	87	91	4	60 - 129	57 - 132	20	Q5
1,2-Dichloropropane	50	53.02	106	50	0.00	53.46	54.99	107	110	3	66 - 128	62 - 135	20	Q5
cis-1,3-Dichloropropene	50	63.95	128	50	0.00	66.44	67.71	133	135	2	72 - 138	70 - 139	20	Q5
trans-1,3-Dichloropropene	50	66.84	134	50	0.00	71.85	75.79	144	152	5	59 - 149	59 - 154	20	Q5
1,4-Dioxane (p-Dioxane)	1050	1040	99	1050	0.00	1318	1421	126	135	8	17 - 200	15 - 221	20	Q5
Ethylbenzene	50	59.09	118	50	0.00	62.77	57.2	126	114	9	66 - 126	57 - 135	20	Q5
Ethyl methacrylate	100	122.4	122	100	0.00	133.1	139.6	133	140	5	35 - 168	37 - 177	20	Q5
2-Hexanone	50	56.07	112	50	0.00	65.82	62.56	132	125	5	36 - 170	25 - 189	20	Q5
Iodomethane	50	37.53	75	50	0.00	36.6	36.99	73	74	1	47 - 135	46 - 138	20	Q5
Isobutanol	1050	963.9	92	1050	0.00	1124	1139	107	109	1	32 - 173	26 - 188	20	Q5
Methacrylonitrile	550	556.2	101	550	0.00	663.7	658.9	121	120	1	25 - 172	26 - 186	20	Q5

4/10/2008 13:26:42

*** denotes recovery outside of QC limits.**

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

Louisiana Dept. of Environmental Quality (LELAP) - 02006
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Kansas Dept. of Health Environmental - E-10266
Pennsylvania DEP (NELAC) 68-04202
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Pace Analytical Services, Inc.
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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Method: EPA 8260 **Project:** 2080021 **LCS:** 20598959 27-Mar-08 17:34

Batch: 99589 **MS:** 20598303 27-Mar-08 18:34

MSD: 20598304 27-Mar-08 18:54

Units: ug/L **Original for MS:** 20597833 Project Sample

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Methylene chloride	50	46.6	93	50	0.00	46.69	48.33	93	97	3	46 - 168	45 - 166	20	\11,Q5
Methyl methacrylate	100	106.8	107	100	0.00	122.8	126.5	123	127	3	33 - 170	37 - 180	20	Q5
4-Methyl-2-pentanone (MI	50	54.81	110	50	0.00	69.18	64.9	138	130	6	26 - 171	23 - 184	20	Q5
Propionitrile	550	564	103	550	0.00	680.9	674.2	124	123	1	14 - 183	15 - 199	20	Q5
Styrene	50	68.17	136 *	50	0.00	70.33	66.52	141	133	6	72 - 133	58 - 144	20	)10,Q5
1,1,1,2-Tetrachloroethane	50	59.78	120	50	0.00	63.72	60.08	127	120	6	66 - 134	66 - 136	20	Q5
1,1,2,2-Tetrachloroethane	50	53.14	106	50	0.00	58.9	62.9	118	126	7	15 - 179	15 - 187	20	Q5
Tetrachloroethene	50	63.89	128	50	0.00	59.9	54.68	120	109	9	46 - 157	48 - 143	20	Q5
Toluene	50	56.76	114	50	0.00	55.29	56.97	111	114	3	69 - 126	59 - 136	20	Q5
1,1,1-Trichloroethane	50	46.79	94	50	0.00	47.45	47.69	95	95	1	62 - 131	54 - 137	20	Q5
1,1,2-Trichloroethane	50	52.32	105	50	0.00	56.83	58.11	114	116	2	58 - 144	59 - 148	20	Q5
Trichloroethene	50	56.34	113	50	20.84	72.27	75.61	103	110	5	67 - 132	58 - 140	20	Q5
Trichlorofluoromethane	50	51.03	102	50	0.00	47.23	47.32	95	95	0	39 - 171	24 - 175	20	Q5
1,2,3-Trichloropropane	50	56.53	113	50	0.00	59.78	65.22	120	130	9	13 - 187	14 - 199	20	Q5
1,2,4-Trimethylbenzene	50	63.67	127	50	0.00	60.77	62.9	122	126	3	58 - 134	49 - 140	20	Q5
1,3,5-Trimethylbenzene	50	65.28	131	50	0.00	60.87	63.75	122	128	5	56 - 134	40 - 147	20	Q5
Vinyl acetate	50	49.5	99	50	0.00	55.33	56.48	111	113	2	22 - 191	18 - 198	20	Q5
Vinyl chloride	50	41.88	84	50	0.00	40.97	41.32	82	83	1	27 - 149	21 - 150	20	Q5
m&p-Xylene	100	122.6	123	100	0.00	128.5	121	129	121	6	65 - 129	56 - 136	20	Q5
o-Xylene	50	62.96	126 *	50	0.00	66.8	61.14	134 *	122	9	65 - 124	57 - 133	20	)10,Q5

56 compound(s) reported

*** denotes recovery outside of QC limits.**

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

4/10/2008 13:26:42

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Pace Analytical Services, Inc.
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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Method: EPA 8260 **Project:** 2080021 **LCS:** 20599212 28-Mar-08 14:04

Batch: 99589 **MS:**

MSD:

Units: ug/L **Original for MS:**

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Acetone	50	69.91	140								22 - 165	-		A11,Q5
Acetonitrile	550	855	155								15 - 171	-		Q5
Acrolein	100	43.63	44								10 - 131	-		Q5
Acrylonitrile	150	146.3	98								18 - 149	-		Q5
Allyl chloride	100	88.17	88								52 - 127	-		Q5
Benzene	50	44.27	89								62 - 131	-		Q5
Bromodichloromethane	50	61.05	122								69 - 132	-		Q5
Bromoform	50	57.26	115								35 - 166	-		Q5
Bromomethane	50	39.23	79								34 - 158	-		Q5
2-Butanone (MEK)	50	40.43	81								32 - 183	-		A11,Q5
Carbon disulfide	50	38.35	77								31 - 128	-		Q5
Carbon tetrachloride	50	51.59	103								54 - 144	-		Q5
Chlorobenzene	50	55.7	111								70 - 127	-		Q5
Chloroethane	50	49.77	100								17 - 195	-		Q5
Chloroform	50	48.5	97								73 - 134	-		Q5
Chloromethane	50	47.06	94								17 - 153	-		Q5
Chloroprene	50	47.39	95								55 - 137	-		Q5
1,2-Dibromo-3-chloropropa	50	73.87	148								21 - 160	-		Q5
Dibromochloromethane	50	60	120								49 - 146	-		Q5
1,2-Dibromoethane (EDB)	50	65.17	130								52 - 161	-		Q5
Dibromomethane	50	57.71	115								56 - 145	-		Q5
trans-1,4-Dichloro-2-butene	100	141.3	141								21 - 157	-		Q5
1,1-Dichloroethane	50	48.68	97								63 - 129	-		Q5
1,2-Dichloroethane	50	52.5	105								57 - 148	-		Q5
1,1-Dichloroethene	50	41.44	83								51 - 139	-		Q5
trans-1,2-Dichloroethene	50	42.87	86								60 - 129	-		Q5
1,2-Dichloropropane	50	54.04	108								66 - 128	-		Q5
cis-1,3-Dichloropropene	50	66.3	133								72 - 138	-		Q5
trans-1,3-Dichloropropene	50	73	146								59 - 149	-		Q5
1,4-Dioxane (p-Dioxane)	1050	1273	121								17 - 200	-		Q5
Ethylbenzene	50	56.19	112								66 - 126	-		Q5
Ethyl methacrylate	100	140.2	140								35 - 168	-		Q5
2-Hexanone	50	61.07	122								36 - 170	-		Q5
Iodomethane	50	37.56	75								47 - 135	-		Q5
Isobutanol	1050	1080	103								32 - 173	-		Q5
Methacrylonitrile	550	627.3	114								25 - 172	-		Q5

*** denotes recovery outside of QC limits.**

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MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

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Phone: 504.469.0333
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LELAP # 02006

Method: EPA 8260 **Project:** 2080021 **LCS:** 20599212 28-Mar-08 14:04

Batch: 99589 **MS:**

MSD:

Units: ug/L **Original for MS:**

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Methylene chloride	50	46.07	92								46 - 168	-		A11,Q5
Methyl methacrylate	100	121.9	122								33 - 170	-		Q5
4-Methyl-2-pentanone (MI	50	62.28	125								26 - 171	-		Q5
Propionitrile	550	625.8	114								14 - 183	-		Q5
Styrene	50	66	132								72 - 133	-		Q5
1,1,1,2-Tetrachloroethane	50	57.46	115								66 - 134	-		Q5
1,1,2,2-Tetrachloroethane	50	58.17	116								15 - 179	-		Q5
Tetrachloroethene	50	55.27	111								46 - 157	-		Q5
Toluene	50	57.17	114								69 - 126	-		Q5
1,1,1-Trichloroethane	50	48.13	96								62 - 131	-		Q5
1,1,2-Trichloroethane	50	57.14	114								58 - 144	-		Q5
Trichloroethene	50	57.05	114								67 - 132	-		Q5
Trichlorofluoromethane	50	65.41	131								39 - 171	-		Q5
1,2,3-Trichloropropane	50	61.33	123								13 - 187	-		Q5
1,2,4-Trimethylbenzene	50	60.4	121								58 - 134	-		Q5
1,3,5-Trimethylbenzene	50	60.66	121								56 - 134	-		Q5
Vinyl acetate	50	52.14	104								22 - 191	-		Q5
Vinyl chloride	50	40.44	81								27 - 149	-		Q5
m&p-Xylene	100	119.9	120								65 - 129	-		Q5
o-Xylene	50	60.52	121								65 - 124	-		Q5

56 compound(s) reported

*** denotes recovery outside of QC limits.**

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

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LELAP # 02006

Method: EPA 8270 **Project:** 2080021 **LCS:** 20598101 26-Mar-08 18:10

Batch: 99555 **MS:** 20598102 26-Mar-08 18:36

MSD: 20598103 26-Mar-08 19:02

Units: ug/L **Original for MS:** 20597833 Project Sample

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
bis(2-Ethylhexyl)phthalate	50	48.54	97	50	0.00	47.81	50.31	96	101	5	49 - 132	18 - 128	20	A25
4-Nitrophenol	50	36.73	74	50	0.00	38.98	43.09	78	86	10	35 - 133	10 - 162	35	
Pentachlorophenol	50	36.23	73	50	5.85	48.3	49.36	85	87	2	38 - 135	24 - 169	38	

3 compound(s) reported

*** denotes recovery outside of QC limits.**

4/10/2008 13:26:42

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

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Surrogate Recovery

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Phone: 504.469.0333
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LELAP # 02006

Batch: 99555 **Project:** 2080021

Lab ID	Sample ID	Qu	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20598100	99555 BLANK 1		72	85	81	82	92	100		
20598101	99555 LCS 1		85	83	79	80	92	100		
20597836	MW-14		72	78	70	75	83	97		
20597834	MW-1A		74	80	67	77	78	98		
20597833	MW-1C		86	89	83	87	97	106		
20598102	MW-1CMS 1		83	81	71	75	85	96		
20598103	MW-1CMSD 1		87	85	75	79	90	103		
20597837	PZ-20A		71	70	72	71	84	92		
20597838	PZ-20B		74	84	45	85	46	89		
20597835	RRUW		70	76	65	76	79	92		
	QC limits:		25-145	34-117	10-118	33-120	15-134	24-133		

Sur 1: 2,4,6-Tribromophenol (S)
Sur 2: 2-Fluorobiphenyl (S)
Sur 3: 2-Fluorophenol (S)
Sur 4: Nitrobenzene-d5 (S)
Sur 5: Phenol-d5 (S)
Sur 6: Terphenyl-d14 (S)

*** denotes surrogate recovery outside of QC limits.**
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.

4/10/2008 13:26:44

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Phone: 504.469.0333
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LELAP # 02006

Batch: 99589 **Project:** 2080021

Lab ID	Sample ID	Qu	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20598301	99589 BLANK 1		119	111	90					
20598958	99589 BLANK 2		99	92	100					
20599211	99589 BLANK 3		106	90	104					
20598302	99589 LCS 1		110	105	106					
20598959	99589 LCS 2		99	79	102					
20599212	99589 LCS 3		100	81	105					
20597836	MW-14		105	84	101					
20597834	MW-1A		104	84	99					
20597833	MW-1C		103	84	100					
20598303	MW-1CMS 1		98	83	100					
20598304	MW-1CMSD 1		102	83	102					
20597837	PZ-20A		103	86	101					
20597838	PZ-20B	D1	103	86	100					
20597835	RRUW		105	84	100					
20597839	TB-02		107	85	100					
	QC limits:		66-141	72-126	78-119					

Sur 1: 4-Bromofluorobenzene (S)
Sur 2: Dibromofluoromethane (S)
Sur 3: Toluene-d8 (S)

*** denotes surrogate recovery outside of QC limits.**
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.

4/10/2008 13:26:44

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LELAP # 02006

Blank ID: 99555 BLANK 1 **Project:** 2080021

Lab ID: 20598100

Description: 8270 SVOAs Water **Prep Level:** Water **Batch:** 99555

Method: Water EPA 8270

Prepared: 25-Mar-08 **Analyzed:** 26-Mar-08 17:44

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL
98-86-2	Acetophenone	1		ND	10.0	1.42
1912-24-9	Atrazine	1		ND	10.0	
21725-46-2	Cyanazine	1		ND	10.0	
88-85-7	Dinoseb	1		ND	10.0	1.20
117-81-7	bis(2-Ethylhexyl)phthalate	1	A25	ND	10.0	8.62
100-02-7	4-Nitrophenol	1		ND	10.0	1.33
87-86-5	Pentachlorophenol	1		ND	10.0	1.37

7 compound(s) reported

4/10/2008 13:26:45

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

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U.S. Dept. of Agricultural Foreign Soil Permit - S-47270

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New Orleans Laboratory

Organics Method Blank

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Blank ID: 99589 BLANK 2 **Project:** 2080021

Lab ID: 20598958

Description: 8260 VOAs Full List Water BLK **Prep Level:** Water **Batch:** 99589

Method: Water EPA 8260

Prepared: 27-Mar-08 **Analyzed:** 27-Mar-08 17:14

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL
67-64-1	Acetone	1	A11	ND	10.0	5.90
75-05-8	Acetonitrile	1		ND	100.	12.5
107-02-8	Acrolein	1		ND	20.0	9.10
107-13-1	Acrylonitrile	1		ND	20.0	4.90
107-05-1	Allyl chloride	1		ND	10.0	1.56
71-43-2	Benzene	1		ND	5.00	0.117
75-27-4	Bromodichloromethane	1		ND	5.00	0.206
75-25-2	Bromoform	1		ND	5.00	0.259
74-83-9	Bromomethane	1		ND	5.00	1.94
78-93-3	2-Butanone (MEK)	1	A11	ND	10.0	2.25
75-15-0	Carbon disulfide	1		ND	5.00	0.257
56-23-5	Carbon tetrachloride	1		ND	5.00	0.592
108-90-7	Chlorobenzene	1		ND	5.00	0.119
75-00-3	Chloroethane	1		ND	5.00	0.647
67-66-3	Chloroform	1		ND	5.00	0.479
74-87-3	Chloromethane	1		ND	5.00	0.305
126-99-8	Chloroprene	1		ND	5.00	0.784
96-12-8	1,2-Dibromo-3-chloropropane	1		ND	5.00	1.22
124-48-1	Dibromochloromethane	1		ND	5.00	0.145
106-93-4	1,2-Dibromoethane (EDB)	1		ND	5.00	0.669
74-95-3	Dibromomethane	1		ND	5.00	1.39
110-57-6	trans-1,4-Dichloro-2-butene	1		ND	5.00	1.86
75-71-8	Dichlorodifluoromethane	1		ND	5.00	0.818
75-34-3	1,1-Dichloroethane	1		ND	5.00	0.515
107-06-2	1,2-Dichloroethane	1		ND	5.00	0.212
75-35-4	1,1-Dichloroethene	1		ND	5.00	0.493
156-60-5	trans-1,2-Dichloroethene	1		ND	5.00	0.733
78-87-5	1,2-Dichloropropane	1		ND	5.00	0.328
10061-01-5	cis-1,3-Dichloropropene	1		ND	5.00	0.0869
10061-02-6	trans-1,3-Dichloropropene	1		ND	5.00	0.216

4/10/2008 13:26:45

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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Blank ID: 99589 BLANK 2 **Project:** 2080021

Lab ID: 20598958

Description: 8260 VOAs Full List Water BLK **Prep Level:** Water **Batch:** 99589

Method: Water EPA 8260

Prepared: 27-Mar-08 **Analyzed:** 27-Mar-08 17:14

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL
123-91-1	1,4-Dioxane (p-Dioxane)	1		ND	250.	16.8
100-41-4	Ethylbenzene	1		ND	5.00	0.119
97-63-2	Ethyl methacrylate	1		ND	10.0	0.475
591-78-6	2-Hexanone	1		ND	10.0	0.468
74-88-4	Iodomethane	1		ND	5.00	0.621
78-83-1	Isobutanol	1		ND	250.	18.7
126-98-7	Methacrylonitrile	1		ND	100.	16.2
75-09-2	Methylene chloride	1	A11	ND	5.00	0.710
80-62-6	Methyl methacrylate	1		ND	10.0	0.997
108-10-1	4-Methyl-2-pentanone (MIBK)	1		ND	10.0	0.872
107-12-0	Propionitrile	1		ND	20.0	6.35
100-42-5	Styrene	1		ND	5.00	0.0763
630-20-6	1,1,1,2-Tetrachloroethane	1		ND	5.00	0.291
79-34-5	1,1,2,2-Tetrachloroethane	1		ND	5.00	0.238
127-18-4	Tetrachloroethene	1		ND	5.00	0.162
108-88-3	Toluene	1		ND	5.00	0.131
71-55-6	1,1,1-Trichloroethane	1		ND	5.00	0.609
79-00-5	1,1,2-Trichloroethane	1		ND	5.00	0.328
79-01-6	Trichloroethene	1		ND	5.00	0.168
75-69-4	Trichlorofluoromethane	1		ND	5.00	1.57
96-18-4	1,2,3-Trichloropropane	1		ND	5.00	1.49
95-63-6	1,2,4-Trimethylbenzene	1		ND	5.00	0.0844
108-67-8	1,3,5-Trimethylbenzene	1		ND	5.00	0.0614
108-05-4	Vinyl acetate	1		ND	10.0	0.686
75-01-4	Vinyl chloride	1		ND	5.00	0.463
	m&p-Xylene	1		ND	10.0	0.151
95-47-6	o-Xylene	1		ND	5.00	0.142

57 compound(s) reported

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LELAP # 02006

Blank ID: 99589 BLANK 3 **Project:** 2080021

Lab ID: 20599211

Description: 8260 VOAs Full List Water BLK **Prep Level:** Water **Batch:** 99589

Method: Water EPA 8260

Prepared: 28-Mar-08 **Analyzed:** 28-Mar-08 13:44

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL
67-64-1	Acetone	1	A11	ND	10.0	5.90
75-05-8	Acetonitrile	1		ND	100.	12.5
107-02-8	Acrolein	1		ND	20.0	9.10
107-13-1	Acrylonitrile	1		ND	20.0	4.90
107-05-1	Allyl chloride	1		ND	10.0	1.56
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56-23-5	Carbon tetrachloride	1		ND	5.00	0.592
108-90-7	Chlorobenzene	1		ND	5.00	0.119
75-00-3	Chloroethane	1		ND	5.00	0.647
67-66-3	Chloroform	1		ND	5.00	0.479
74-87-3	Chloromethane	1		ND	5.00	0.305
126-99-8	Chloroprene	1		ND	5.00	0.784
96-12-8	1,2-Dibromo-3-chloropropane	1		ND	5.00	1.22
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106-93-4	1,2-Dibromoethane (EDB)	1		ND	5.00	0.669
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110-57-6	trans-1,4-Dichloro-2-butene	1		ND	5.00	1.86
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LELAP # 02006

Blank ID: 99589 BLANK 3 **Project:** 2080021

Lab ID: 20599211

Description: 8260 VOAs Full List Water BLK **Prep Level:** Water **Batch:** 99589

Method: Water EPA 8260

Prepared: 28-Mar-08 **Analyzed:** 28-Mar-08 13:44

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL
123-91-1	1,4-Dioxane (p-Dioxane)	1		ND	250.	16.8
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97-63-2	Ethyl methacrylate	1		ND	10.0	0.475
591-78-6	2-Hexanone	1		ND	10.0	0.468
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108-10-1	4-Methyl-2-pentanone (MIBK)	1		ND	10.0	0.872
107-12-0	Propionitrile	1		ND	20.0	6.35
100-42-5	Styrene	1		ND	5.00	0.0763
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57 compound(s) reported

4/10/2008 13:26:45

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Surrogate Recovery

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Phone: 504.469.0333
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LELAP # 02006

Batch: 99474 **Project:** 2080021

Lab ID	Sample ID	Qu	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20597731	99474 BLANK 1		85	74	61	58				
20597912	99474 BLANK 2		105	98	86	66				
20597732	99474 LCS 1		107	92	45	49				
20597913	99474 LCS 2		114	110	69	68				
20597836	MW-14		109	94	68	61				
20597834	MW-1A	S1	131	111	89	151 *				
20597833	MW-1C	S1	149 *	119	68	94				
20597914	MW-1CMS 1		110	110	51	135 *				
20597915	MW-1CMSD 1		121	122	60	115				
20597837	PZ-20A		109	107	61	59				
20597838	PZ-20B		6 *	5 *	0 *	305 *				
20597835	RRUW	S1	131	130	83	129 *				
	QC limits:		10-137	10-144	18-119	18-122				

Sur 1: Decachlorobiphenyl (Conf)(S)
Sur 2: Decachlorobiphenyl (S)
Sur 3: Tetrachloro-m-xylene (Conf)(S)
Sur 4: Tetrachloro-m-xylene (S)

*** denotes surrogate recovery outside of QC limits.**
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.

4/10/2008 13:26:46

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Phone: 504.469.0333
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LELAP # 02006

Batch: 99990 **Project:** 2080021

Lab ID	Sample ID	Qu	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20600132	99990 BLANK 1		0 *	59	62	51				
20600133	99990 LCS 1		0 *	84	64	60				
20597838	PZ-20B	G1	0 *	77	49	323 *				
	QC limits:		10-137	10-144	18-119	18-122				

Sur 1: Decachlorobiphenyl (Conf)(S)
Sur 2: Decachlorobiphenyl (S)
Sur 3: Tetrachloro-m-xylene (Conf)(S)
Sur 4: Tetrachloro-m-xylene (S)

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LELAP # 02006

Blank ID: 99474 BLANK 2 **Project:** 2080021

Lab ID: 20597912

Description: 8081 Pests Water **Prep Level:** Water **Batch:** 99474

Method: Water EPA 8081

Prepared: 24-Mar-08 **Analyzed:** 29-Mar-08 19:09

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL
8001-35-2	Toxaphene	1		ND	2.00	2.00

1 compound(s) reported

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LELAP # 02006

Blank ID: 99990 BLANK 1 **Project:** 2080021

Lab ID: 20600132

Description: 8081 Pests Water **Prep Level:** Water **Batch:** 99990

Method: Water EPA 8081

Prepared: 03-Apr-08 **Analyzed:** 09-Apr-08 17:30

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL
8001-35-2	Toxaphene	1		ND	2.00	2.00

1 compound(s) reported

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Qualifier Summary

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Project: 2080021

Qualifier	Qualifier Description
A11	This analyte is a common solvent. Its presence in field samples may be an artifact of sample collection, transport, laboratory storage or analysis.
A25	This analyte is a common plasticizer. Its presence in field samples may be an artifact of sample collection, transport, laboratory storage or analysis.
B1	This analyte was present in the method blank, however, the data are reported without qualification since the target was not detected in the sample.
D1	The analysis was performed at a dilution due to the high analyte concentration.
G1	Interferences are present which caused poor surrogate recovery.
J	This estimated value for the analyte is below the adjusted reporting limit but above the instrument reporting limit.
N	See narrative for a detailed explanation.
Q10	The spike recovery was above the laboratory QC limits, however, the data are reported without qualification since the target analyte was not detected in the corresponding samples.
Q5	Insufficient sample was provided to perform matrix spike analyses on any sample in this analytical batch. Method performance for this analyte has been demonstrated by the laboratory control sample recovery.
S1	The surrogate recovery was above the QC limit. The data are reported without qualification since the associated target analytes were not detected in the sample.

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ARCADIS

Laboratory Task Order No./P.O. No. _____ **CHAIN-OF-CUSTODY RECORD** Page 1 of 1

Project Number/Name LA002656.1.3 / Miss. Bluffs

Project Location Vicksburg, MS

Laboratory PACE

Project Manager David Esvdé

Sampler(s)/Affiliation K. Montgomery / G Cook (ARCADIS)

2080021

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE: VOC 40 ml glass vials HCl	6VOC + Oxy. Chl. Herbicides 1 L amber glass 4°C	Oxy. Chl. Pesticides 500 ml amber glass 4°C	T. Metals (Arsenic) 250 ml plastic HNO3	D. Metals (Arsenic) 250 ml plastic 4°C	0825	Remarks	Total
MW-1C	L	3/20/08 0824		9	6	6	3	3		20597833	27
MW-1A	L	1137		3	2	2	1	1		834	9
RRDW	L	1421		3	2	2	1	1		835	9
MW-14	L	1558		3	2	2	1	1		836	9
TB-02	L	3-20-08		2	—	—	—	—		839	2
PZ-20A	L	3-21-08 0847		3	2	2	1	1		837	9
PZ-20B	L	1000		3	2	2	1	1		838	9

Total No. of Bottles/ Containers 74

Sample Matrix: L = Liquid; S = Solid; A = Air

Relinquished by: K Montgomery	Organization: ARCADIS	Date 3/21/08	Time 1540	Seal Intact?	
Received by: Mimi Gibson	Organization: Pace	Date 3/21/08	Time 1540	Yes No (N/A)	
Relinquished by: _____	Organization: _____	Date / /	Time _____	Seal Intact?	
Received by: _____	Organization: _____	Date / /	Time _____	Yes No N/A	

Special Instructions/Remarks: (1) LAB to Filter diss. metals!

3.4°C Coolers
3.2°C
4.0°C

Delivery Method: ☐ In Person ☐ Common Carrier _____ SPECIFY ☒ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

Pace Analytical

Sample Condition Up

2080021 20-ARCADISGM

1000 Riverbend. Blvd., Suite F
St. Rose, LA 70087

Courier: ☑ Pace Courier ☐ Hackbarth ☐ Fed X ☐ UPS ☐ DHL ☐ USPS ☐ Customer ☐ Other

Custody Seal on Cooler/Box Present: [see COC] **Custody Seals intact:** ☐Yes ☐No

Therometer Used: ☑ Therm Fisher IR 1 ☐ Therm Fisher IR 2

Type of Ice: Wet Blue None

Samples on ice: [see COC]

Cooler Temperature: [see COC]

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 3/24/08

Temp must be measured from Temperature blank when present

		Comments:
Temperature Blank Present"?	☐Yes ☐No ☑N/A	1
Chain of Custody Present:	☑Yes ☐No ☐N/A	2
Chain of Custody Complete:	☑Yes ☐No ☐N/A	3
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	4
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	5
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	6
Sufficient Volume:	☑Yes ☐No ☐N/A	7
Correct Containers Used:	☑Yes ☐No ☐N/A	8
Filtered vol. Rec. for Diss. tests	☐Yes ☐No ☑N/A	9
Sample Labels match COC:	☑Yes ☐No ☐N/A	10
All containers received within manafacture's precautionary and/or expiration dates.	☑Yes ☐No ☐N/A	11
All containers needing preservation have been checked (except VOA, coliform, & O&G).	☐Yes ☐No ☑N/A	12
All containers preservation checked found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	13 If No, was preserative added? ☐Yes ☐No If added record lot no.: HNO3 _____ H2SO4 _____
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	14
Trip Blank Present:	☐Yes ☐No ☑N/A	16
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	17
Pace Trip Blank Lot # (if purchased): N/A		18

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

April 03, 2008

Client Services
Pace Analytical New Orleans
1000 Riverbend Blvd
Suite F
St. Rose, LA 70087

RE: Project: 2080021 ARCADIS G&M
Pace Project No.: 1070214

Dear Client Services:
Enclosed are the analytical results for sample(s) received by the laboratory on March 21, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Sylvia Hunter

Sylvia Hunter

sylvia.hunter@pacelabs.com
Project Manager

Florida (Nelap) Certification #: E87605
Illinois Certification #: 200011
Iowa Certification #: 368
Minnesota Certification #: 027-053-137
Wisconsin Certification #: 999407970

Enclosures

REPORT OF LABORATORY ANALYSIS

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ACCREDITED IN ACCORDANCE WITH nelac

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(612)607-1700

SAMPLE SUMMARY

Project: 2080021 ARCADIS G&M
Pace Project No.: 1070214

Lab ID	Sample ID	Matrix	Date Collected	Date Received
20597833	**MW-1C**	Water	03/20/08 08:24	03/21/08 15:40
20597834	**MW-1A**	Water	03/20/08 11:37	03/21/08 15:40
20597835	**RRUW**	Water	03/20/08 14:21	03/21/08 15:40
20597836	**MW-14**	Water	03/20/08 15:58	03/21/08 15:40
20597837	**PZ-20A**	Water	03/21/08 08:47	03/21/08 15:40
20597838	**PZ-20B**	Water	03/21/08 10:00	03/21/08 15:40

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SAMPLE ANALYTE COUNT

Project: 2080021 ARCADIS G&M
Pace Project No.: 1070214

Lab ID	Sample ID	Method	Analysts	Analytes Reported
20597833	**MW-1C**	EPA 6020	RJS	1
		EPA 6020	RJS	1
20597834	**MW-1A**	EPA 6020	RJS	1
		EPA 6020	RJS	1
20597835	**RRUW**	EPA 6020	RJS	1
		EPA 6020	RJS	1
20597836	**MW-14**	EPA 6020	RJS	1
		EPA 6020	RJS	1
20597837	**PZ-20A**	EPA 6020	RJS	1
		EPA 6020	RJS	1
20597838	**PZ-20B**	EPA 6020	RJS	1
		EPA 6020	RJS	1

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ANALYTICAL RESULTS

Project: 2080021 ARCADIS G&M
Pace Project No.: 1070214

Sample: MW-1C **Lab ID: 20597833** Collected: 03/20/08 08:24 Received: 03/21/08 15:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Arsenic	**0.92**	ug/L	0.20	1	03/27/08 09:48	03/28/08 19:03	7440-38-2	
6020 MET ICPMS, Lab Filtered	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Arsenic	**0.90**	ug/L	0.20	1	03/28/08 10:47	03/28/08 22:45	7440-38-2	

Sample: MW-1A **Lab ID: 20597834** Collected: 03/20/08 11:37 Received: 03/21/08 15:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Arsenic	**0.73**	ug/L	0.40	2	03/27/08 09:48	03/31/08 14:40	7440-38-2	
6020 MET ICPMS, Lab Filtered	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Arsenic	**0.76**	ug/L	0.20	1	03/28/08 10:47	03/28/08 23:01	7440-38-2	

Sample: RRUW **Lab ID: 20597835** Collected: 03/20/08 14:21 Received: 03/21/08 15:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Arsenic	**1.1**	ug/L	0.40	2	03/27/08 09:48	03/31/08 14:44	7440-38-2	
6020 MET ICPMS, Lab Filtered	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Arsenic	**1.3**	ug/L	0.20	1	03/28/08 10:47	03/28/08 23:05	7440-38-2	

Sample: MW-14 **Lab ID: 20597836** Collected: 03/20/08 15:58 Received: 03/21/08 15:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Arsenic	**1.4**	ug/L	0.20	1	03/27/08 09:48	03/31/08 14:48	7440-38-2	
6020 MET ICPMS, Lab Filtered	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Arsenic	**1.3**	ug/L	0.20	1	03/28/08 10:47	03/28/08 23:09	7440-38-2	

Sample: PZ-20A **Lab ID: 20597837** Collected: 03/21/08 08:47 Received: 03/21/08 15:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Arsenic	**0.74**	ug/L	0.20	1	03/27/08 09:48	03/31/08 14:52	7440-38-2	

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ANALYTICAL RESULTS

Project: 2080021 ARCADIS G&M
Pace Project No.: 1070214

Sample: PZ-20A **Lab ID: 20597837** Collected: 03/21/08 08:47 Received: 03/21/08 15:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Lab Filtered	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Arsenic	**0.54**	ug/L	0.20	1	03/28/08 10:47	03/28/08 23:13	7440-38-2	

Sample: PZ-20B **Lab ID: 20597838** Collected: 03/21/08 10:00 Received: 03/21/08 15:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Arsenic	**15.6**	ug/L	1.0	5	03/27/08 09:48	03/31/08 14:56	7440-38-2	
6020 MET ICPMS, Lab Filtered	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Arsenic	**15.1**	ug/L	1.0	5	03/28/08 10:09	03/31/08 19:27	7440-38-2	

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QUALITY CONTROL DATA

Project: 2080021 ARCADIS G&M
Pace Project No.: 1070214

QC Batch: MPRP/11697 Analysis Method: EPA 6020
QC Batch Method: EPA 3020 Analysis Description: 6020 MET
Associated Lab Samples: 20597833, 20597834, 20597835, 20597836, 20597837, 20597838

METHOD BLANK: 456764
Associated Lab Samples: 20597833, 20597834, 20597835, 20597836, 20597837, 20597838

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Arsenic	ug/L	ND	0.20	

LABORATORY CONTROL SAMPLE: 456765

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	80	79.7	100	85-115	

MATRIX SPIKE SAMPLE: 456766

Parameter	Units	1069995011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	9.4	80	89.0	99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 456767 456768

Parameter	Units	20597833 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	0.92	80	80	76.9	76.7	95	95	70-130	.2	20	

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nelac

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QUALITY CONTROL DATA

Project: 2080021 ARCADIS G&M
Pace Project No.: 1070214

QC Batch: MPRP/11710 Analysis Method: EPA 6020
QC Batch Method: EPA 3020 Analysis Description: 6020 MET Dissolved
Associated Lab Samples: 20597833, 20597834, 20597835, 20597836, 20597837

METHOD BLANK: 457244
Associated Lab Samples: 20597833, 20597834, 20597835, 20597836, 20597837

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Arsenic	ug/L	ND	0.20	

LABORATORY CONTROL SAMPLE: 457245

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	80	73.1	91	85-115	

MATRIX SPIKE SAMPLE: 457246

Parameter	Units	20597296 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	7.3	80	83.9	96	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 457247 457248

Parameter	Units	20597833 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	0.90	80	80	75.8	74.5	94	92	70-130	2	20	

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QUALITY CONTROL DATA

Project: 2080021 ARCADIS G&M
Pace Project No.: 1070214

QC Batch: MPRP/11725
QC Batch Method: EPA 3020
Analysis Method: EPA 6020
Analysis Description: 6020 MET Dissolved
Associated Lab Samples: 20597838

METHOD BLANK: 457733
Associated Lab Samples: 20597838

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Arsenic	ug/L	ND	0.20	

LABORATORY CONTROL SAMPLE: 457734

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	80	69.6	87	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 457735 457736

Parameter	Units	20597838 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	15.1	80	80	86.3	79.8	89	81	70-130	8	20	

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QUALIFIERS

Project: 2080021 ARCADIS G&M
Pace Project No.: 1070214

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

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Sample Condition Upon Receipt

Pace Analytical

Client Name: PACE - NEW ORLEANS Project # 1070214

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 672463440083

Custody Seal on Cooler/Box Present: ☒ yes ☐ no Seals Intact: ☒ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other _____

Thermometer Used 230194010, ~~72310129~~ Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 0.7°C Biological Tissue is Frozen: Yes No

Date and initials of person examining contents: 3/25/08 AP

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☐No ☒N/A	6.
Rush Turn Around Time Requested:	☐Yes ☒No ☐N/A	7.
Sufficient Volume:	☒Yes ☐No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
Containers Intact:	☐Yes ☐No ☒N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☒No ☐N/A	11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☒Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☒Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☒No	Initial when completed: AP Lot # of added preservative:
Samples checked for dechlorination:	☐Yes ☐No ☒N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☒N/A	15.
Trip Blank Present:	☐Yes ☒No ☐N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☒N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: AH **Date:** 3/25/08

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical

1000 Riverbend. Blvd., Suite F
St. Rose, LA 70087

Sample Condition Up

20800021 20-ARCADISGM

Courier: ☑ Pace Courier ☐ Hackbarth ☐ Fed X ☐ UPS ☐ DHL ☐ USPS ☐ Customer ☐ Other

Custody Seal on Cooler/Box Present: [see COC] **Custody Seals intact:** ☐Yes ☑No

Therometer Used: ☑ Therm Fisher IR 1 ☐ Therm Fisher IR 2

Type of Ice: Wet Blue None

Samples on Ice: [see COC]

Cooler Temperature: [see COC]

Temp should be above freezing to 6°C

Date and Initials of person examining contents: LM 5/19/08

Temp must be measured from Temperature blank when present

					Comments:
Temperature Blank Present"?	☐Yes	☐No	☑N/A		1
Chain of Custody Present:	☑Yes	☐No	☐N/A		2
Chain of Custody Complete:	☑Yes	☐No	☐N/A		3
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A		4
Sampler Name & Signature on COC:	☐Yes	☐No	☐N/A		5
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A		6
Sufficient Volume:	☑Yes	☐No	☐N/A		7
Correct Containers Used:	☐Yes	☐No	☐N/A		8
Filtered vol. Rec. for Diss. tests	☐Yes	☐No	☑N/A		9
Sample Labels match COC:	☐Yes	☐No	☐N/A		10
All containers received within manafacture's precautionary and/or expiration dates.	☑Yes	☐No	☐N/A		11
All containers needing preservation have been checked (except VOA, coliform, & O&G).	☐Yes	☐No	☑N/A		12
All containers preservation checked found to be in compliance with EPA recommendation.	☐Yes	☐No	☐N/A		13 If No, was preserative added? ☐Yes ☐No If added record lot no.: HNO3 _____ H2SO4 _____
Samples checked for dechlorination:	☐Yes	☐No	☑N/A		14
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A		14
Trip Blank Present:	☐Yes	☐No	☑N/A		16
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A		17
Pace Trip Blank Lot # (if purchased): N/A					18

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

ARCADIS

Laboratory Task Order No./P.O. No. _____ **CHAIN-OF-CUSTODY RECORD** Page 1 of 1

Project Number/Name LA002656.1.3 / Miss. Blvd
Project Location Vicksburg, MS
Laboratory PACE
Project Manager David Esandé
Sampler(s)/Affiliation K. Montgomery / A. Cook (ARCADIS)

2080021

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	VOC 40 ml glass vials HCl	SVOC + Diss. chl. Headspace 1L amber glass 4°C	Diss. chl. Pesticides 500 ml amber glass 4°C	T. Metals (Pressure) 250 ml plastic HNO3 (1)	D. Metals (Pressure) 250 ml plastic HNO3 (1) 4°C	DOS	Remarks	Total
MW-1C	L	3/20/08 0824		9	6	6	3	3		20597833	27
MW-1A	L	1137		3	2	2	1	1		834	9
RROW	L	1421		3	2	2	1	1		835	9
MW-14	L	1558		3	2	2	1	1		836	9
TB-02	L	3-20-08 3-19-08 0847		2	—	—	—	—		839	2
PZ-20A	L			3	2	2	1	1		837	9
PZ-20B	L	1000		3	2	2	1	1		838	9

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers 74

Relinquished by: K. Montgomery	Organization: ARCADIS	Date 3/21/08	Time 1540	Seal Intact? Yes No N/A
Received by: Maria Garson	Organization: Pace	Date 3/21/08	Time 1540	
Relinquished by:	Organization: Pace — FEDEX	Date 3/24/08	Time 1700	Seal Intact? Yes No N/A
Received by:	Organization: Pace	Date 3/25/08	Time 0005	

Special Instructions/Remarks: (1) LAB to Filter diss. metals!

T = 0.7°C

3.4°C
3.2°C
4.0°C
3 coolers

Delivery Method: ☐ In Person ☐ Common Carrier _____ SPECIFY ☒ Lab Courier ☐ Other _____ SPECIFY

AC 05-12-01

ANALYTICAL DATA VALIDATION CHECKLIST **Former Vicksburg Chemical Company**

SDG NUMBER (s)	**2080121 and 1070650**		
Sample Date(s):	March 24-25, 2008		
Sample Team:	ARCADIS		
Sample Matrix:	Soil		
Analyzing Laboratories:	Pace Analytical Services (New Orleans and Minneapolis)		
Analyses: Project-Specific Compound Lists:	**USEPA Methods:** 8260 (VOCs) 8270 (SVOCs)	8081 (Pesticides) 6020 (Metals)	
Report Content Level:	Contract Laboratory Program (CLP) Type including raw data		

ARCADIS
3850 N Causeway Blvd.
Suite 1600
Metairie, Louisiana 70002
Tel. 504 832 4174
Fax 504 832 2145

ENVIRONMENT

Project Number:
LA002656.0001.00013

Review of field data, field notes, and sampling logs was included in this review. Analytical data were evaluated in accordance with applicable USEPA method-specific criteria and/or laboratory Standard Operating Procedures (SOPs), "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review" (July 2002), "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review" (October 1999), “Quality Assurance Project Plan” (September 2006), the analytical laboratory Quality Assurance (QA) control limits, “Site Baseline Sampling Work Plan” (January 2007), and professional judgment.

This data verification was performed at a **Level 2** and included review of data package completeness, laboratory control samples and method blanks, surrogate and matrix spike recoveries, holding time compliance, field duplicate precision, and field Quality Control (QC) sample evaluation. Only QA/QC results and analytical data associated with analytes/compounds of interest were reviewed for this validation.

The data package review included analytical results and associated QC data for all samples in the listed Sample Delivery Group(s) unless otherwise noted.

The following samples were included in this Validation:

SDG	Sample ID	Sample Type	Sample Collection Date	Parent Sample
2080121 and 1070650	PZ-21A	Water	03/24/08	
2080121 and 1070650	PZ-22B	Water	03/24/08	
2080121 and 1070650	PZ-23B	Water	03/24/08	
2080121 and 1070650	PZ-25B	Water	03/24/08	
2080121 and 1070650	PZ-26A	Water	03/24/08	
2080121 and 1070650	DUP-02	Water	03/24/08	PZ-26A
2080121 and 1070650	MW-4	Water	03/25/08	
2080121 and 1070650	MW-11	Water	03/25/08	
2080121 and 1070650	MW-10C	Water	03/25/08	
2080121 and 1070650	MW-18B	Water	03/25/08	
2080121 and 1070650	Rinsate-02	Water	03/25/08	
2080121	FB-02	Water	03/25/08	
2080121	TB-03	Water	03/24/08	
1070650	MW-17B	Water	03/25/08	

ANALYTICAL DATA PACKAGE DOCUMENTATION
GENERAL INFORMATION

Item Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt information		X		X	
2. Sample results		X		X	
3. Parameters analyzed		X		X	
4. Methods of analysis		X		X	
5. Reporting limits of analysis		X		X	
6. Master tracking list		X		X	
7. Sample collection date		X		X	
8. Laboratory sample received date		X		X	
9. Sample preservation		X		X	
10. Sample preparation/extraction date		X		X	
11. Sample analysis date		X		X	
12. Copy of Chain-of-Custody form signed by laboratory sample custodian		X		X	
13. Narrative summary of QA or sample problems provided		X		X	

QA - Quality Assurance

Comments:

All samples referenced in this report were analyzed by various divisions of Pace Analytical Services.

Performance was acceptable, with the following exceptions and/or notes:

5. The laboratory reported values between the Method Detection Limit and the Reporting Limit (RL) as estimated except for Toxaphene, Atrazine, and Cyanazine. If the compound was not detected, the analytical report lists the result as non-detect at the quantitative RL.

VOLATILE ORGANIC COMPOUNDS

Item Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
1. Holding Times		X		X	
2. Reporting Limits		X		X	
3. Blanks					
A. Method Blanks		X		X	
B. Equipment Blanks/Rinsate Blanks		X		X	
C. Field Blanks		X		X	
D. Trip Blanks		X	X		
4. Laboratory Control Sample (LCS)		X	X		
5. LCS Duplicate (LCSD)	X				X
6. LCS/LCSD Precision (RPD)	X				X
7. Matrix Spike (MS) %R		X		X	
8. MS Duplicate (MSD) %R		X		X	
9. MS/MSD Precision (RPD)		X		X	
10. Surrogate Spike Recoveries		X		X	
11. Field Duplicate Comparison		X		X	

%R - percent recovery RPD - relative percent difference

Comments:

This section presents the review of USEPA Method 8260 Volatile Organic Compounds (VOCs). Performance was acceptable, with the following exceptions and/or notes:

Note: The Appendix IX compound list was reported.

2. PZ-22B was analyzed at a 50x dilution due to elevated concentrations of target analytes. There were elevated reporting limits for non-detect results.

   MW-10C and MW-18B were analyzed at 5x dilutions due to elevated concentrations of target analytes. There were no elevated reporting limits for non-detect results because non-detects were reported from the 1x dilution.

3D. Methylene Chloride was detected in TB-03. The associated field samples are qualified as non-detect if the sample concentration is less than ten times the blank value.

4. The recovery of Styrene was above the control limit in the LCS for batch 99681. The associated field samples were non-detect for Styrene. No qualification is necessary.

7-9. Batch QC was used for the MS/MSD. The recoveries and RPDs were acceptable.

11. DUP-02 was collected as a field duplicate of PZ-26A. The RPDs were acceptable at non-detect.

SEMIVOLATILE ORGANIC COMPOUNDS

Item Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
1. Holding Times					
A. Extraction Holding Time		X		X	
B. Analysis Holding Time		X		X	
2. Reporting Limits		X		X	
3. Blanks					
A. Method Blanks		X		X	
B. Equipment Blanks/Rinsate Blanks		X		X	
C. Field Blanks	X				X
4. Laboratory Control Sample (LCS)		X		X	
5. LCS Duplicate (LCSD)	X				X
6. LCS/LCSD Precision (RPD)	X				X
7. Matrix Spike (MS) %R	X				X
8. MS Duplicate (MSD) %R	X				X
9. MS/MSD Precision (RPD)	X				X
10. Surrogate Spike Recoveries		X	X		
11. Field Duplicate Comparison		X		X	

%R - percent recovery RPD - relative percent difference

Comments:

The following section was reviewed and completed for USEPA Method 8270 Semivolatile Organic Compounds (SVOCs). Performance was acceptable, with the following exceptions and/or notes:

Notes: A project-specific list of compounds was reported.

2. MW-10C was analyzed at a 100x dilution due to elevated concentration of target analytes. There were no elevated reporting limits for non-detect results because non-detects were reported from the 1x dilution.

7-9. MS/MSD analyses were not included in this data package.

10. The surrogates were diluted out in the 100x dilution of MW-10C. Dinoseb was the only analyte reported from this dilution and is qualified as estimated.

11. DUP-02 was collected as a field duplicate of PZ-26A. The RPDs were acceptable at non-detect.

PESTICIDES

Item reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
1. Holding Times		X		X	
2. Reporting Limits		X		X	
3. Blanks					
A. Method Blanks		X		X	
B. Equipment Blanks/Rinsate Blank	X				X
C. Field Blanks	X				X
4. Laboratory Control Sample (LCS)	X				X
5. LCS Duplicate (LCSD)	X				X
6. LCS/LCSD Precision (RPD)	X				X
7. Matrix Spike (MS) %R	X				X
8. MS Duplicate (MSD) %R	X				X
9. MS/MSD Precision (RPD)	X				X
10. Surrogate Spike Recoveries		X		X	
11. Field Duplicate Comparison		X		X	

%R - percent recovery RPD - relative percent difference

Comments:

The following section was reviewed and completed for Method 8081 (Pesticides) Toxaphene only. Performance was acceptable, with the following exceptions and/or notes:

11. DUP-02 was collected as a field duplicate of PZ-26A. The RPDs were acceptable at non-detect.

METALS

Item Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
INDUCTIVELY COUPLED PLASMA/MASS SPECTROMETRY (ICP/MS)					
1. Holding Times		X		X	
2. Reporting Limits		X		X	
3. Blanks					
A. Method Blanks		X		X	
B. Equipment Blanks/Rinsate Blanks		X		X	
C. Field Blanks	X				X
4. Laboratory Control Sample (LCS)		X		X	
5. LCS Duplicate (LCSD)	X				X
6. LCS/LCSD Precision (RPD)	X				X
7. Matrix Spike (MS) %R		X		X	
8. MS Duplicate (MSD) %R		X		X	
9. MS/MSD Precision (RPD)		X		X	
10. Total and Dissolved Metals Comparison		X	X		
11. Field Duplicate Comparison		X		X	

%R - percent recovery RPD - relative percent difference

Comments:

The following section was reviewed and completed for USEPA Method 6010 (Total and Dissolved Arsenic). Performance was acceptable, with the following exceptions and/or notes:

7-9. MW-4 was utilized as a site-specific MS/MSD. The recoveries and RPD were acceptable.

10. The Dissolved Arsenic result was greater than the Total Arsenic result for PZ-23B, PZ-25B, and MW-18B and the difference was greater than 10 percent. The Total and Dissolved Arsenic results for the above samples are qualified as estimated.

11. DUP-02 was collected as a field duplicate of PZ-26A. The RPDs were acceptable.

VALIDATION QUALIFICATION SUMMARY

Data values presented in the following table were qualified due to QC deficiencies. The table indicates compounds/analytes qualified based on validation reviews conducted in accordance with the level of review referenced on page 1 of this checklist. Refer to the associated method section of the validation checklist for a detailed explanation of qualification. All other data are considered quantitative.

The following data qualifiers with applicable definitions were applied in this data validation:

UB - compound/analyte detected in blank or associated blank.

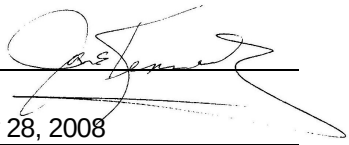
J - the analyte was positively identified, but the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - the analyte was not detected above the reporting limit; however, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R - the sample result is rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria, and the presence or absence of the analyte cannot be verified.

All other data satisfy validation criteria and are considered to be quantitative.

Sample ID	Parameter	Result	Units	Qualifier	Reason
MW-10C	Methylene Chloride	0.980	µg/L	UB	Blank Contamination
	Dinoseb	3280	µg/L	J	Surrogate Recovery
PZ-23B	Total Arsenic	2.9	µg/L	J	Total vs. Dissolved
	Dissolved Arsenic	6.0	µg/L	J	Total vs. Dissolved
PZ-25B	Total Arsenic	1.2	µg/L	J	Total vs. Dissolved
	Dissolved Arsenic	1.6	µg/L	J	Total vs. Dissolved
MW-18B	Total Arsenic	246	µg/L	J	Total vs. Dissolved
	Dissolved Arsenic	284	µg/L	J	Total vs. Dissolved

VALIDATION PERFORMED BY:	Rachelle Borne
SIGNATURE:	
DATE:	May 28, 2008
PEER REVIEW:	Jane Kennedy
SIGNATURE:	
DATE:	May 28, 2008

Pace Analytical Services, Inc.
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LELAP # 02006

April 10, 2008

David Escude'
Arcadis Geraghty & Miller
10352 Plaza Americana Dr.
Baton Rouge, LA 70816

RE: Project 2080121
Project ID: LA002656.13.1/MS BLUFFS

Dear David Escude':

Enclosed are the analytical results for sample(s) received by the laboratory on March 26, 2008. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerly,

Cindy Olavesen

Cindy Olavesen
cindy.olavesen@pacelabs.com

ACCREDITED IN ACCORDANCE WITH nelac

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, execpt in full, without the written consent of Pace Analytical Services, Inc.

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New Orleans Laboratory

Sample Cross Reference

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2080121

Client: Arcadis Geraghty & Miller

Project ID: LA002656.13.1/MS BLUFFS

Client Sample ID	Lab ID	Matrix	Collection Date/Time	Received Date/Time
PZ-21A	20598750	Water	24-Mar-08 09:36	26-Mar-08 10:15
PZ-22B	20598751	Water	24-Mar-08 11:11	26-Mar-08 10:15
PZ-23B	20598752	Water	24-Mar-08 13:46	26-Mar-08 10:15
PZ-25B	20598753	Water	24-Mar-08 15:45	26-Mar-08 10:15
PZ-26A	20598754	Water	24-Mar-08 17:15	26-Mar-08 10:15
DUP-02	20598756	Water	24-Mar-08 00:00	26-Mar-08 10:15
MW-4	20598757	Water	25-Mar-08 08:12	26-Mar-08 10:15
MW-11	20598759	Water	25-Mar-08 11:06	26-Mar-08 10:15
MW-10C	20598770	Water	25-Mar-08 13:16	26-Mar-08 10:15
MW-18B	20598771	Water	25-Mar-08 14:47	26-Mar-08 10:15
RINSATE-02	20598772	Water	25-Mar-08 15:10	26-Mar-08 10:15
FB-02	20598773	Water	25-Mar-08 15:00	26-Mar-08 10:15
TB-03	20598775	Water	24-Mar-08 00:00	26-Mar-08 10:15

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Florida Dept. of Health (NELAC) - E87595
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Project: 2080121

Narrative detail for GC semi-volatiles analyses:

There were no Toxaphene hits on the A column so confirmation data was not required. Thus, although the surrogate DCB was not recovered on the B column, no corrective action was necessary.

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Project: 2080121

Sample Receipt Condition:

All samples were received in accordance with EPA protocol.

Holding Times:

All holding times were met.

Blanks:

All blank results were below reporting limits.

Laboratory Control Samples:

LCS recoveries outside of QC limits are qualified in the Report of Quality Control section.

Matrix Spikes and Duplicates:

All MS/MSD recoveries or duplicate RPDs were within QC limits.

Surrogates:

Surrogate recoveries outside of QC limits are qualified in the surrogate results section.

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Project: 2080121

Analytical Method	Batch	Sample used for QC
EPA 8081	99845	Project sample MW-4
EPA 8270	99692	Project sample MW-4
EPA 8260	99681	Project sample MW-4

For the sample used as the original for the DUP or MS/MSD for the batch:

Project sample means a sample from this project was used.
Client sample means a sample from the same client but in a different project was used.
Batch sample means a sample from the a different client was used.

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Sample Results

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-21A
Project: 2080121
Project ID: LA002656.13.1/MS BLUFFS
Site: None
Lab ID: 20598750
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99681
Method: EPA 8260

Collected: 24-Mar-08
Received: 26-Mar-08
Prepared: 27-Mar-08
Analyzed: 27-Mar-08 22:14 RMP

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
67-64-1	Acetone	1	A11	ND	10.0	5.90	
75-05-8	Acetonitrile	1		ND	100.	12.5	
107-02-8	Acrolein	1		ND	20.0	9.10	
107-13-1	Acrylonitrile	1		ND	20.0	4.90	
107-05-1	Allyl chloride	1		ND	10.0	1.56	
71-43-2	Benzene	1		ND	5.00	0.117	
75-27-4	Bromodichloromethane	1		ND	5.00	0.206	
75-25-2	Bromoform	1		ND	5.00	0.259	
74-83-9	Bromomethane	1		ND	5.00	1.94	
78-93-3	2-Butanone (MEK)	1	A11	ND	10.0	2.25	
75-15-0	Carbon disulfide	1		ND	5.00	0.257	
56-23-5	Carbon tetrachloride	1		ND	5.00	0.592	
108-90-7	Chlorobenzene	1		ND	5.00	0.119	
75-00-3	Chloroethane	1		ND	5.00	0.647	
67-66-3	Chloroform	1		ND	5.00	0.479	
74-87-3	Chloromethane	1		ND	5.00	0.305	
126-99-8	Chloroprene	1		ND	5.00	0.784	
96-12-8	1,2-Dibromo-3-chloropropane	1		ND	5.00	1.22	
124-48-1	Dibromochloromethane	1		ND	5.00	0.145	
106-93-4	1,2-Dibromoethane (EDB)	1		ND	5.00	0.669	
74-95-3	Dibromomethane	1		ND	5.00	1.39	
110-57-6	trans-1,4-Dichloro-2-butene	1		ND	5.00	1.86	
75-71-8	Dichlorodifluoromethane	1		ND	5.00	0.818	
75-34-3	1,1-Dichloroethane	1		ND	5.00	0.515	
107-06-2	1,2-Dichloroethane	1		ND	5.00	0.212	
75-35-4	1,1-Dichloroethene	1		ND	5.00	0.493	
156-60-5	trans-1,2-Dichloroethene	1		ND	5.00	0.733	
78-87-5	1,2-Dichloropropane	1		ND	5.00	0.328	
10061-01-5	cis-1,3-Dichloropropene	1		ND	5.00	0.0869	
10061-02-6	trans-1,3-Dichloropropene	1		ND	5.00	0.216	

Protocol 4/10/2008 12:26:38

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

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Sample Results

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-21A
Project: 2080121
Project ID: LA002656.13.1/MS BLUFFS
Site: None
Lab ID: 20598750
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99681
Method: EPA 8260

Collected: 24-Mar-08
Received: 26-Mar-08
Prepared: 27-Mar-08
Analyzed: 27-Mar-08 22:14 RMP

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
123-91-1	1,4-Dioxane (p-Dioxane)	1		ND	250.	16.8	
100-41-4	Ethylbenzene	1		ND	5.00	0.119	
97-63-2	Ethyl methacrylate	1		ND	10.0	0.475	
591-78-6	2-Hexanone	1		ND	10.0	0.468	
74-88-4	Iodomethane	1		ND	5.00	0.621	
78-83-1	Isobutanol	1		ND	250.	18.7	
126-98-7	Methacrylonitrile	1		ND	100.	16.2	
75-09-2	Methylene chloride	1	A11	ND	5.00	0.710	
80-62-6	Methyl methacrylate	1		ND	10.0	0.997	
108-10-1	4-Methyl-2-pentanone (MIBK)	1		ND	10.0	0.872	
107-12-0	Propionitrile	1		ND	20.0	6.35	
100-42-5	Styrene	1		ND	5.00	0.0763	
630-20-6	1,1,1,2-Tetrachloroethane	1		ND	5.00	0.291	
79-34-5	1,1,2,2-Tetrachloroethane	1		ND	5.00	0.238	
127-18-4	Tetrachloroethene	1		ND	5.00	0.162	
108-88-3	Toluene	1		ND	5.00	0.131	
71-55-6	1,1,1-Trichloroethane	1		ND	5.00	0.609	
79-00-5	1,1,2-Trichloroethane	1		ND	5.00	0.328	
79-01-6	Trichloroethene	1		ND	5.00	0.168	
75-69-4	Trichlorofluoromethane	1		ND	5.00	1.57	
96-18-4	1,2,3-Trichloropropane	1		ND	5.00	1.49	
95-63-6	1,2,4-Trimethylbenzene	1		ND	5.00	0.0844	
108-67-8	1,3,5-Trimethylbenzene	1		ND	5.00	0.0614	
108-05-4	Vinyl acetate	1		ND	10.0	0.686	
75-01-4	Vinyl chloride	1		ND	5.00	0.463	
	m&p-Xylene	1		ND	10.0	0.151	
95-47-6	o-Xylene	1		ND	5.00	0.142	

57 compound(s) reported

Protocol 4/10/2008 12:26:38

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
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Sample Results

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-21A
Project: 2080121
Project ID: LA002656.13.1/MS BLUFFS
Site: None
Lab ID: 20598750
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99692
Method: EPA 8270

Collected: 24-Mar-08
Received: 26-Mar-08
Prepared: 27-Mar-08
Analyzed: 08-Apr-08 18:15 JAM

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
98-86-2	Acetophenone	1		ND	10.0	1.42	
1912-24-9	Atrazine	1		ND	10.0		
21725-46-2	Cyanazine	1		ND	10.0		
88-85-7	Dinoseb	1		ND	10.0	1.20	
117-81-7	bis(2-Ethylhexyl)phthalate	1	A25	ND	10.0	8.62	
100-02-7	4-Nitrophenol	1		ND	10.0	1.33	
87-86-5	Pentachlorophenol	1		ND	10.0	1.37	

7 compound(s) reported

Protocol 4/10/2008 12:26:38

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

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Louisiana Dept. of Health and Hospitals / Drinking Water - LA050004
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U.S. Dept. of Agricultural Foreign Soil Permit - S-47270

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-22B
Project: 2080121
Project ID: LA002656.13.1/MS BLUFFS
Site: None
Lab ID: 20598751
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99681
Method: EPA 8260

Collected: 24-Mar-08
Received: 26-Mar-08
Prepared: 27-Mar-08
Analyzed: 27-Mar-08 23:54 RMP

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result		Reporting Limit	MDL	Reg Limit
67-64-1	Acetone	50	D6	ND		500.	295.	
75-05-8	Acetonitrile	50	D6	ND		5000	623.	
107-02-8	Acrolein	50	D6	ND		1000	455.	
107-13-1	Acrylonitrile	50	D6	ND		1000	245.	
107-05-1	Allyl chloride	50	D6	ND		500.	78.0	
71-43-2	Benzene	50	D6	ND		250.	5.84	
75-27-4	Bromodichloromethane	50	D6	168.	J	250.	10.3	
75-25-2	Bromoform	50	D6	297.		250.	13.0	
74-83-9	Bromomethane	50	D6	ND		250.	96.8	
78-93-3	2-Butanone (MEK)	50	D6	ND		500.	112.	
75-15-0	Carbon disulfide	50	D6	ND		250.	12.8	
56-23-5	Carbon tetrachloride	50	D6	ND		250.	29.6	
108-90-7	Chlorobenzene	50	D6	ND		250.	5.94	
75-00-3	Chloroethane	50	D6	ND		250.	32.3	
67-66-3	Chloroform	50	D6	12000		250.	24.0	
74-87-3	Chloromethane	50	D6	ND		250.	15.3	
126-99-8	Chloroprene	50	D6	ND		250.	39.2	
96-12-8	1,2-Dibromo-3-chloropropane	50	D6	ND		250.	61.0	
124-48-1	Dibromochloromethane	50	D6	55.5	J	250.	7.27	
106-93-4	1,2-Dibromoethane (EDB)	50	D6	ND		250.	33.4	
74-95-3	Dibromomethane	50	D6	ND		250.	69.3	
110-57-6	trans-1,4-Dichloro-2-butene	50	D6	ND		250.	93.2	
75-71-8	Dichlorodifluoromethane	50	D6	ND		250.	40.9	
75-34-3	1,1-Dichloroethane	50	D6	27.5	J	250.	25.7	
107-06-2	1,2-Dichloroethane	50	D6	ND		250.	10.6	
75-35-4	1,1-Dichloroethene	50	D6	ND		250.	24.6	
156-60-5	trans-1,2-Dichloroethene	50	D6	ND		250.	36.7	
78-87-5	1,2-Dichloropropane	50	D6	ND		250.	16.4	
10061-01-5	cis-1,3-Dichloropropene	50	D6	ND		250.	4.34	
10061-02-6	trans-1,3-Dichloropropene	50	D6	ND		250.	10.8	

Protocol 4/10/2008 12:26:38

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Louisiana Dept. of Environmental Quality (LELAP) - 02006
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Arkansas Dept. of Environmental Quality - LA050004
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environmental - E-10266
Pennsylvania DEP (NELAC) 68-04202
U.S. Dept. of Agricultural Foreign Soil Permit - S-47270

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Sample Results

Pace Analytical Services, Inc.
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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-22B
Project: 2080121
Project ID: LA002656.13.1/MS BLUFFS
Site: None
Lab ID: 20598751
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99681
Method: EPA 8260

Collected: 24-Mar-08
Received: 26-Mar-08
Prepared: 27-Mar-08
Analyzed: 27-Mar-08 23:54 RMP

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result		Reporting Limit	MDL	Reg Limit
123-91-1	1,4-Dioxane (p-Dioxane)	50	D6	ND		12500	842.	
100-41-4	Ethylbenzene	50	D6	ND		250.	5.97	
97-63-2	Ethyl methacrylate	50	D6	ND		500.	23.8	
591-78-6	2-Hexanone	50	D6	ND		500.	23.4	
74-88-4	Iodomethane	50	D6	ND		250.	31.0	
78-83-1	Isobutanol	50	D6	ND		12500	934.	
126-98-7	Methacrylonitrile	50	D6	ND		5000	812.	
75-09-2	Methylene chloride	50	D6	51.0	J	250.	35.5	
80-62-6	Methyl methacrylate	50	D6	ND		500.	49.9	
108-10-1	4-Methyl-2-pentanone (MIBK)	50	D6	ND		500.	43.6	
107-12-0	Propionitrile	50	D6	ND		1000	317.	
100-42-5	Styrene	50	D6	ND		250.	3.82	
630-20-6	1,1,1,2-Tetrachloroethane	50	D6	ND		250.	14.6	
79-34-5	1,1,2,2-Tetrachloroethane	50	D6	ND		250.	11.9	
127-18-4	Tetrachloroethene	50	D6	ND		250.	8.12	
108-88-3	Toluene	50	D6	ND		250.	6.54	
71-55-6	1,1,1-Trichloroethane	50	D6	ND		250.	30.5	
79-00-5	1,1,2-Trichloroethane	50	D6	ND		250.	16.4	
79-01-6	Trichloroethene	50	D6	ND		250.	8.42	
75-69-4	Trichlorofluoromethane	50	D6	ND		250.	78.6	
96-18-4	1,2,3-Trichloropropane	50	D6	ND		250.	74.4	
95-63-6	1,2,4-Trimethylbenzene	50	D6	ND		250.	4.22	
108-67-8	1,3,5-Trimethylbenzene	50	D6	ND		250.	3.07	
108-05-4	Vinyl acetate	50	D6	ND		500.	34.3	
75-01-4	Vinyl chloride	50	D6	ND		250.	23.2	
	m&p-Xylene	50	D6	ND		500.	7.56	
95-47-6	o-Xylene	50	D6	ND		250.	7.08	

57 compound(s) reported

Protocol 4/10/2008 12:26:38

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Kansas Dept. of Health Environmental - E-10266
Pennsylvania DEP (NELAC) 68-04202
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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-22B
Project: 2080121
Project ID: LA002656.13.1/MS BLUFFS
Site: None
Lab ID: 20598751
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99692
Method: EPA 8270

Collected: 24-Mar-08
Received: 26-Mar-08
Prepared: 27-Mar-08
Analyzed: 08-Apr-08 15:14 JAM

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
98-86-2	Acetophenone	1		ND	10.0	1.42	
1912-24-9	Atrazine	1		ND	10.0		
21725-46-2	Cyanazine	1		ND	10.0		
88-85-7	Dinoseb	1		ND	10.0	1.20	
117-81-7	bis(2-Ethylhexyl)phthalate	1	A25	ND	10.0	8.62	
100-02-7	4-Nitrophenol	1		ND	10.0	1.33	
87-86-5	Pentachlorophenol	1		ND	10.0	1.37	

7 compound(s) reported

Protocol 4/10/2008 12:26:38

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-23B
Project: 2080121
Project ID: LA002656.13.1/MS BLUFFS
Site: None
Lab ID: 20598752
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99681
Method: EPA 8260

Collected: 24-Mar-08
Received: 26-Mar-08
Prepared: 27-Mar-08
Analyzed: 27-Mar-08 22:34 RMP

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
67-64-1	Acetone	1	A11	ND	10.0	5.90	
75-05-8	Acetonitrile	1		ND	100.	12.5	
107-02-8	Acrolein	1		ND	20.0	9.10	
107-13-1	Acrylonitrile	1		ND	20.0	4.90	
107-05-1	Allyl chloride	1		ND	10.0	1.56	
71-43-2	Benzene	1		ND	5.00	0.117	
75-27-4	Bromodichloromethane	1		ND	5.00	0.206	
75-25-2	Bromoform	1		4.87 J	5.00	0.259	
74-83-9	Bromomethane	1		ND	5.00	1.94	
78-93-3	2-Butanone (MEK)	1	A11	ND	10.0	2.25	
75-15-0	Carbon disulfide	1		ND	5.00	0.257	
56-23-5	Carbon tetrachloride	1		ND	5.00	0.592	
108-90-7	Chlorobenzene	1		ND	5.00	0.119	
75-00-3	Chloroethane	1		ND	5.00	0.647	
67-66-3	Chloroform	1		14.3	5.00	0.479	
74-87-3	Chloromethane	1		ND	5.00	0.305	
126-99-8	Chloroprene	1		ND	5.00	0.784	
96-12-8	1,2-Dibromo-3-chloropropane	1		ND	5.00	1.22	
124-48-1	Dibromochloromethane	1		ND	5.00	0.145	
106-93-4	1,2-Dibromoethane (EDB)	1		ND	5.00	0.669	
74-95-3	Dibromomethane	1		ND	5.00	1.39	
110-57-6	trans-1,4-Dichloro-2-butene	1		ND	5.00	1.86	
75-71-8	Dichlorodifluoromethane	1		ND	5.00	0.818	
75-34-3	1,1-Dichloroethane	1		ND	5.00	0.515	
107-06-2	1,2-Dichloroethane	1		ND	5.00	0.212	
75-35-4	1,1-Dichloroethene	1		ND	5.00	0.493	
156-60-5	trans-1,2-Dichloroethene	1		ND	5.00	0.733	
78-87-5	1,2-Dichloropropane	1		ND	5.00	0.328	
10061-01-5	cis-1,3-Dichloropropene	1		ND	5.00	0.0869	
10061-02-6	trans-1,3-Dichloropropene	1		ND	5.00	0.216	

Protocol 4/10/2008 12:26:38

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MDL denotes method detection limit

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Kansas Dept. of Health Environmental - E-10266
Pennsylvania DEP (NELAC) 68-04202
U.S. Dept. of Agricultural Foreign Soil Permit - S-47270

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-23B
Project: 2080121
Project ID: LA002656.13.1/MS BLUFFS
Site: None
Lab ID: 20598752
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99681
Method: EPA 8260

Collected: 24-Mar-08
Received: 26-Mar-08
Prepared: 27-Mar-08
Analyzed: 27-Mar-08 22:34 RMP

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
123-91-1	1,4-Dioxane (p-Dioxane)	1		ND	250.	16.8	
100-41-4	Ethylbenzene	1		ND	5.00	0.119	
97-63-2	Ethyl methacrylate	1		ND	10.0	0.475	
591-78-6	2-Hexanone	1		ND	10.0	0.468	
74-88-4	Iodomethane	1		ND	5.00	0.621	
78-83-1	Isobutanol	1		ND	250.	18.7	
126-98-7	Methacrylonitrile	1		ND	100.	16.2	
75-09-2	Methylene chloride	1	A11	ND	5.00	0.710	
80-62-6	Methyl methacrylate	1		ND	10.0	0.997	
108-10-1	4-Methyl-2-pentanone (MIBK)	1		ND	10.0	0.872	
107-12-0	Propionitrile	1		ND	20.0	6.35	
100-42-5	Styrene	1		ND	5.00	0.0763	
630-20-6	1,1,1,2-Tetrachloroethane	1		ND	5.00	0.291	
79-34-5	1,1,2,2-Tetrachloroethane	1		ND	5.00	0.238	
127-18-4	Tetrachloroethene	1		ND	5.00	0.162	
108-88-3	Toluene	1		ND	5.00	0.131	
71-55-6	1,1,1-Trichloroethane	1		ND	5.00	0.609	
79-00-5	1,1,2-Trichloroethane	1		ND	5.00	0.328	
79-01-6	Trichloroethene	1		ND	5.00	0.168	
75-69-4	Trichlorofluoromethane	1		ND	5.00	1.57	
96-18-4	1,2,3-Trichloropropane	1		ND	5.00	1.49	
95-63-6	1,2,4-Trimethylbenzene	1		ND	5.00	0.0844	
108-67-8	1,3,5-Trimethylbenzene	1		ND	5.00	0.0614	
108-05-4	Vinyl acetate	1		ND	10.0	0.686	
75-01-4	Vinyl chloride	1		ND	5.00	0.463	
	m&p-Xylene	1		ND	10.0	0.151	
95-47-6	o-Xylene	1		ND	5.00	0.142	

57 compound(s) reported

Protocol 4/10/2008 12:26:38

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-23B
Project: 2080121
Project ID: LA002656.13.1/MS BLUFFS
Site: None
Lab ID: 20598752
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99692
Method: EPA 8270

Collected: 24-Mar-08
Received: 26-Mar-08
Prepared: 27-Mar-08
Analyzed: 08-Apr-08 18:41 JAM

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
98-86-2	Acetophenone	1		ND	10.0	1.42	
1912-24-9	Atrazine	1		ND	10.0		
21725-46-2	Cyanazine	1		ND	10.0		
88-85-7	Dinoseb	1		ND	10.0	1.20	
117-81-7	bis(2-Ethylhexyl)phthalate	1	A25	ND	10.0	8.62	
100-02-7	4-Nitrophenol	1		ND	10.0	1.33	
87-86-5	Pentachlorophenol	1		ND	10.0	1.37	

7 compound(s) reported

Protocol 4/10/2008 12:26:38

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-25B
Project: 2080121
Project ID: LA002656.13.1/MS BLUFFS
Site: None
Lab ID: 20598753
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99681
Method: EPA 8260

Collected: 24-Mar-08
Received: 26-Mar-08
Prepared: 27-Mar-08
Analyzed: 27-Mar-08 22:54 RMP

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
67-64-1	Acetone	1	A11	ND	10.0	5.90	
75-05-8	Acetonitrile	1		ND	100.	12.5	
107-02-8	Acrolein	1		ND	20.0	9.10	
107-13-1	Acrylonitrile	1		ND	20.0	4.90	
107-05-1	Allyl chloride	1		ND	10.0	1.56	
71-43-2	Benzene	1		ND	5.00	0.117	
75-27-4	Bromodichloromethane	1		ND	5.00	0.206	
75-25-2	Bromoform	1		ND	5.00	0.259	
74-83-9	Bromomethane	1		ND	5.00	1.94	
78-93-3	2-Butanone (MEK)	1	A11	ND	10.0	2.25	
75-15-0	Carbon disulfide	1		ND	5.00	0.257	
56-23-5	Carbon tetrachloride	1		ND	5.00	0.592	
108-90-7	Chlorobenzene	1		ND	5.00	0.119	
75-00-3	Chloroethane	1		ND	5.00	0.647	
67-66-3	Chloroform	1		ND	5.00	0.479	
74-87-3	Chloromethane	1		ND	5.00	0.305	
126-99-8	Chloroprene	1		ND	5.00	0.784	
96-12-8	1,2-Dibromo-3-chloropropane	1		ND	5.00	1.22	
124-48-1	Dibromochloromethane	1		ND	5.00	0.145	
106-93-4	1,2-Dibromoethane (EDB)	1		ND	5.00	0.669	
74-95-3	Dibromomethane	1		ND	5.00	1.39	
110-57-6	trans-1,4-Dichloro-2-butene	1		ND	5.00	1.86	
75-71-8	Dichlorodifluoromethane	1		ND	5.00	0.818	
75-34-3	1,1-Dichloroethane	1		ND	5.00	0.515	
107-06-2	1,2-Dichloroethane	1		ND	5.00	0.212	
75-35-4	1,1-Dichloroethene	1		ND	5.00	0.493	
156-60-5	trans-1,2-Dichloroethene	1		ND	5.00	0.733	
78-87-5	1,2-Dichloropropane	1		ND	5.00	0.328	
10061-01-5	cis-1,3-Dichloropropene	1		ND	5.00	0.0869	
10061-02-6	trans-1,3-Dichloropropene	1		ND	5.00	0.216	

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Sample Results

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-25B
Project: 2080121
Project ID: LA002656.13.1/MS BLUFFS
Site: None
Lab ID: 20598753
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99681
Method: EPA 8260

Collected: 24-Mar-08
Received: 26-Mar-08
Prepared: 27-Mar-08
Analyzed: 27-Mar-08 22:54 RMP

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
123-91-1	1,4-Dioxane (p-Dioxane)	1		ND	250.	16.8	
100-41-4	Ethylbenzene	1		ND	5.00	0.119	
97-63-2	Ethyl methacrylate	1		ND	10.0	0.475	
591-78-6	2-Hexanone	1		ND	10.0	0.468	
74-88-4	Iodomethane	1		ND	5.00	0.621	
78-83-1	Isobutanol	1		ND	250.	18.7	
126-98-7	Methacrylonitrile	1		ND	100.	16.2	
75-09-2	Methylene chloride	1	A11	ND	5.00	0.710	
80-62-6	Methyl methacrylate	1		ND	10.0	0.997	
108-10-1	4-Methyl-2-pentanone (MIBK)	1		ND	10.0	0.872	
107-12-0	Propionitrile	1		ND	20.0	6.35	
100-42-5	Styrene	1		ND	5.00	0.0763	
630-20-6	1,1,1,2-Tetrachloroethane	1		ND	5.00	0.291	
79-34-5	1,1,2,2-Tetrachloroethane	1		ND	5.00	0.238	
127-18-4	Tetrachloroethene	1		ND	5.00	0.162	
108-88-3	Toluene	1		ND	5.00	0.131	
71-55-6	1,1,1-Trichloroethane	1		ND	5.00	0.609	
79-00-5	1,1,2-Trichloroethane	1		ND	5.00	0.328	
79-01-6	Trichloroethene	1		ND	5.00	0.168	
75-69-4	Trichlorofluoromethane	1		ND	5.00	1.57	
96-18-4	1,2,3-Trichloropropane	1		ND	5.00	1.49	
95-63-6	1,2,4-Trimethylbenzene	1		ND	5.00	0.0844	
108-67-8	1,3,5-Trimethylbenzene	1		ND	5.00	0.0614	
108-05-4	Vinyl acetate	1		ND	10.0	0.686	
75-01-4	Vinyl chloride	1		ND	5.00	0.463	
	m&p-Xylene	1		ND	10.0	0.151	
95-47-6	o-Xylene	1		ND	5.00	0.142	

57 compound(s) reported

Protocol 4/10/2008 12:26:38

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

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Arkansas Dept. of Environmental Quality - LA050004
Florida Dept. of Health (NELAC) - E87595
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-25B
Project: 2080121
Project ID: LA002656.13.1/MS BLUFFS
Site: None
Lab ID: 20598753
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99692
Method: EPA 8270

Collected: 24-Mar-08
Received: 26-Mar-08
Prepared: 27-Mar-08
Analyzed: 08-Apr-08 19:07 JAM

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
98-86-2	Acetophenone	1		ND	10.0	1.42	
1912-24-9	Atrazine	1		ND	10.0		
21725-46-2	Cyanazine	1		ND	10.0		
88-85-7	Dinoseb	1		ND	10.0	1.20	
117-81-7	bis(2-Ethylhexyl)phthalate	1	A25	ND	10.0	8.62	
100-02-7	4-Nitrophenol	1		ND	10.0	1.33	
87-86-5	Pentachlorophenol	1		ND	10.0	1.37	

7 compound(s) reported

Protocol 4/10/2008 12:26:38

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-26A
Project: 2080121
Project ID: LA002656.13.1/MS BLUFFS
Site: None
Lab ID: 20598754
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99681
Method: EPA 8260

Collected: 24-Mar-08
Received: 26-Mar-08
Prepared: 27-Mar-08
Analyzed: 27-Mar-08 23:14 RMP

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
67-64-1	Acetone	1	A11	ND	10.0	5.90	
75-05-8	Acetonitrile	1		ND	100.	12.5	
107-02-8	Acrolein	1		ND	20.0	9.10	
107-13-1	Acrylonitrile	1		ND	20.0	4.90	
107-05-1	Allyl chloride	1		ND	10.0	1.56	
71-43-2	Benzene	1		ND	5.00	0.117	
75-27-4	Bromodichloromethane	1		ND	5.00	0.206	
75-25-2	Bromoform	1		ND	5.00	0.259	
74-83-9	Bromomethane	1		ND	5.00	1.94	
78-93-3	2-Butanone (MEK)	1	A11	ND	10.0	2.25	
75-15-0	Carbon disulfide	1		ND	5.00	0.257	
56-23-5	Carbon tetrachloride	1		ND	5.00	0.592	
108-90-7	Chlorobenzene	1		ND	5.00	0.119	
75-00-3	Chloroethane	1		ND	5.00	0.647	
67-66-3	Chloroform	1		ND	5.00	0.479	
74-87-3	Chloromethane	1		ND	5.00	0.305	
126-99-8	Chloroprene	1		ND	5.00	0.784	
96-12-8	1,2-Dibromo-3-chloropropane	1		ND	5.00	1.22	
124-48-1	Dibromochloromethane	1		ND	5.00	0.145	
106-93-4	1,2-Dibromoethane (EDB)	1		ND	5.00	0.669	
74-95-3	Dibromomethane	1		ND	5.00	1.39	
110-57-6	trans-1,4-Dichloro-2-butene	1		ND	5.00	1.86	
75-71-8	Dichlorodifluoromethane	1		ND	5.00	0.818	
75-34-3	1,1-Dichloroethane	1		ND	5.00	0.515	
107-06-2	1,2-Dichloroethane	1		ND	5.00	0.212	
75-35-4	1,1-Dichloroethene	1		ND	5.00	0.493	
156-60-5	trans-1,2-Dichloroethene	1		ND	5.00	0.733	
78-87-5	1,2-Dichloropropane	1		ND	5.00	0.328	
10061-01-5	cis-1,3-Dichloropropene	1		ND	5.00	0.0869	
10061-02-6	trans-1,3-Dichloropropene	1		ND	5.00	0.216	

Protocol 4/10/2008 12:26:38

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-26A
Project: 2080121
Project ID: LA002656.13.1/MS BLUFFS
Site: None
Lab ID: 20598754
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99681
Method: EPA 8260

Collected: 24-Mar-08
Received: 26-Mar-08
Prepared: 27-Mar-08
Analyzed: 27-Mar-08 23:14 RMP

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
123-91-1	1,4-Dioxane (p-Dioxane)	1		ND	250.	16.8	
100-41-4	Ethylbenzene	1		ND	5.00	0.119	
97-63-2	Ethyl methacrylate	1		ND	10.0	0.475	
591-78-6	2-Hexanone	1		ND	10.0	0.468	
74-88-4	Iodomethane	1		ND	5.00	0.621	
78-83-1	Isobutanol	1		ND	250.	18.7	
126-98-7	Methacrylonitrile	1		ND	100.	16.2	
75-09-2	Methylene chloride	1	A11	ND	5.00	0.710	
80-62-6	Methyl methacrylate	1		ND	10.0	0.997	
108-10-1	4-Methyl-2-pentanone (MIBK)	1		ND	10.0	0.872	
107-12-0	Propionitrile	1		ND	20.0	6.35	
100-42-5	Styrene	1		ND	5.00	0.0763	
630-20-6	1,1,1,2-Tetrachloroethane	1		ND	5.00	0.291	
79-34-5	1,1,2,2-Tetrachloroethane	1		ND	5.00	0.238	
127-18-4	Tetrachloroethene	1		ND	5.00	0.162	
108-88-3	Toluene	1		ND	5.00	0.131	
71-55-6	1,1,1-Trichloroethane	1		ND	5.00	0.609	
79-00-5	1,1,2-Trichloroethane	1		ND	5.00	0.328	
79-01-6	Trichloroethene	1		ND	5.00	0.168	
75-69-4	Trichlorofluoromethane	1		ND	5.00	1.57	
96-18-4	1,2,3-Trichloropropane	1		ND	5.00	1.49	
95-63-6	1,2,4-Trimethylbenzene	1		ND	5.00	0.0844	
108-67-8	1,3,5-Trimethylbenzene	1		ND	5.00	0.0614	
108-05-4	Vinyl acetate	1		ND	10.0	0.686	
75-01-4	Vinyl chloride	1		ND	5.00	0.463	
	m&p-Xylene	1		ND	10.0	0.151	
95-47-6	o-Xylene	1		ND	5.00	0.142	

57 compound(s) reported

Protocol 4/10/2008 12:26:38

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-26A
Project: 2080121
Project ID: LA002656.13.1/MS BLUFFS
Site: None
Lab ID: 20598754
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99692
Method: EPA 8270

Collected: 24-Mar-08
Received: 26-Mar-08
Prepared: 27-Mar-08
Analyzed: 08-Apr-08 19:33 JAM

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
98-86-2	Acetophenone	1		ND	10.0	1.42	
1912-24-9	Atrazine	1		ND	10.0		
21725-46-2	Cyanazine	1		ND	10.0		
88-85-7	Dinoseb	1		ND	10.0	1.20	
117-81-7	bis(2-Ethylhexyl)phthalate	1	A25	ND	10.0	8.62	
100-02-7	4-Nitrophenol	1		ND	10.0	1.33	
87-86-5	Pentachlorophenol	1		ND	10.0	1.37	

7 compound(s) reported

Protocol 4/10/2008 12:26:38

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: DUP-02
Project: 2080121
Project ID: LA002656.13.1/MS BLUFFS
Site: None
Lab ID: 20598756
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99681
Method: EPA 8260

Collected: 24-Mar-08
Received: 26-Mar-08
Prepared: 27-Mar-08
Analyzed: 27-Mar-08 23:34 RMP

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
67-64-1	Acetone	1	A11	ND	10.0	5.90	
75-05-8	Acetonitrile	1		ND	100.	12.5	
107-02-8	Acrolein	1		ND	20.0	9.10	
107-13-1	Acrylonitrile	1		ND	20.0	4.90	
107-05-1	Allyl chloride	1		ND	10.0	1.56	
71-43-2	Benzene	1		ND	5.00	0.117	
75-27-4	Bromodichloromethane	1		ND	5.00	0.206	
75-25-2	Bromoform	1		ND	5.00	0.259	
74-83-9	Bromomethane	1		ND	5.00	1.94	
78-93-3	2-Butanone (MEK)	1	A11	ND	10.0	2.25	
75-15-0	Carbon disulfide	1		ND	5.00	0.257	
56-23-5	Carbon tetrachloride	1		ND	5.00	0.592	
108-90-7	Chlorobenzene	1		ND	5.00	0.119	
75-00-3	Chloroethane	1		ND	5.00	0.647	
67-66-3	Chloroform	1		ND	5.00	0.479	
74-87-3	Chloromethane	1		ND	5.00	0.305	
126-99-8	Chloroprene	1		ND	5.00	0.784	
96-12-8	1,2-Dibromo-3-chloropropane	1		ND	5.00	1.22	
124-48-1	Dibromochloromethane	1		ND	5.00	0.145	
106-93-4	1,2-Dibromoethane (EDB)	1		ND	5.00	0.669	
74-95-3	Dibromomethane	1		ND	5.00	1.39	
110-57-6	trans-1,4-Dichloro-2-butene	1		ND	5.00	1.86	
75-71-8	Dichlorodifluoromethane	1		ND	5.00	0.818	
75-34-3	1,1-Dichloroethane	1		ND	5.00	0.515	
107-06-2	1,2-Dichloroethane	1		ND	5.00	0.212	
75-35-4	1,1-Dichloroethene	1		ND	5.00	0.493	
156-60-5	trans-1,2-Dichloroethene	1		ND	5.00	0.733	
78-87-5	1,2-Dichloropropane	1		ND	5.00	0.328	
10061-01-5	cis-1,3-Dichloropropene	1		ND	5.00	0.0869	
10061-02-6	trans-1,3-Dichloropropene	1		ND	5.00	0.216	

Protocol 4/10/2008 12:26:39

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: DUP-02
Project ID: LA002656.13.1/MS BLUFFS
Lab ID: 20598756
Description: None
Method: EPA 8260

Project: 2080121
Site: None
Matrix: Water
% Moisture: n/a
Prep Level: Water
Batch: 99681

Collected: 24-Mar-08
Received: 26-Mar-08
Prepared: 27-Mar-08
Analyzed: 27-Mar-08 23:34 RMP

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
123-91-1	1,4-Dioxane (p-Dioxane)	1		ND	250.	16.8	
100-41-4	Ethylbenzene	1		ND	5.00	0.119	
97-63-2	Ethyl methacrylate	1		ND	10.0	0.475	
591-78-6	2-Hexanone	1		ND	10.0	0.468	
74-88-4	Iodomethane	1		ND	5.00	0.621	
78-83-1	Isobutanol	1		ND	250.	18.7	
126-98-7	Methacrylonitrile	1		ND	100.	16.2	
75-09-2	Methylene chloride	1	A11	ND	5.00	0.710	
80-62-6	Methyl methacrylate	1		ND	10.0	0.997	
108-10-1	4-Methyl-2-pentanone (MIBK)	1		ND	10.0	0.872	
107-12-0	Propionitrile	1		ND	20.0	6.35	
100-42-5	Styrene	1		ND	5.00	0.0763	
630-20-6	1,1,1,2-Tetrachloroethane	1		ND	5.00	0.291	
79-34-5	1,1,2,2-Tetrachloroethane	1		ND	5.00	0.238	
127-18-4	Tetrachloroethene	1		ND	5.00	0.162	
108-88-3	Toluene	1		ND	5.00	0.131	
71-55-6	1,1,1-Trichloroethane	1		ND	5.00	0.609	
79-00-5	1,1,2-Trichloroethane	1		ND	5.00	0.328	
79-01-6	Trichloroethene	1		ND	5.00	0.168	
75-69-4	Trichlorofluoromethane	1		ND	5.00	1.57	
96-18-4	1,2,3-Trichloropropane	1		ND	5.00	1.49	
95-63-6	1,2,4-Trimethylbenzene	1		ND	5.00	0.0844	
108-67-8	1,3,5-Trimethylbenzene	1		ND	5.00	0.0614	
108-05-4	Vinyl acetate	1		ND	10.0	0.686	
75-01-4	Vinyl chloride	1		ND	5.00	0.463	
	m&p-Xylene	1		ND	10.0	0.151	
95-47-6	o-Xylene	1		ND	5.00	0.142	

57 compound(s) reported

Protocol 4/10/2008 12:26:39

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: DUP-02
Project ID: LA002656.13.1/MS BLUFFS
Lab ID: 20598756
Description: None
Method: EPA 8270

Project: 2080121
Site: None
Matrix: Water
Prep Level: Water

% Moisture: n/a
Batch: 99692

Collected: 24-Mar-08
Received: 26-Mar-08
Prepared: 27-Mar-08
Analyzed: 08-Apr-08 19:59 JAM

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
98-86-2	Acetophenone	1		ND	10.0	1.42	
1912-24-9	Atrazine	1		ND	10.0		
21725-46-2	Cyanazine	1		ND	10.0		
88-85-7	Dinoseb	1		ND	10.0	1.20	
117-81-7	bis(2-Ethylhexyl)phthalate	1	A25	ND	10.0	8.62	
100-02-7	4-Nitrophenol	1		ND	10.0	1.33	
87-86-5	Pentachlorophenol	1		ND	10.0	1.37	

7 compound(s) reported

Protocol 4/10/2008 12:26:39

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-4
Project: 2080121
Project ID: LA002656.13.1/MS BLUFFS
Site: None
Lab ID: 20598757
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99681
Method: EPA 8260

Collected: 25-Mar-08
Received: 26-Mar-08
Prepared: 28-Mar-08
Analyzed: 28-Mar-08 00:54 RMP

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
67-64-1	Acetone	1	A11	ND	10.0	5.90	
75-05-8	Acetonitrile	1		ND	100.	12.5	
107-02-8	Acrolein	1		ND	20.0	9.10	
107-13-1	Acrylonitrile	1		ND	20.0	4.90	
107-05-1	Allyl chloride	1		ND	10.0	1.56	
71-43-2	Benzene	1		ND	5.00	0.117	
75-27-4	Bromodichloromethane	1		ND	5.00	0.206	
75-25-2	Bromoform	1		ND	5.00	0.259	
74-83-9	Bromomethane	1		ND	5.00	1.94	
78-93-3	2-Butanone (MEK)	1	A11	ND	10.0	2.25	
75-15-0	Carbon disulfide	1		ND	5.00	0.257	
56-23-5	Carbon tetrachloride	1		ND	5.00	0.592	
108-90-7	Chlorobenzene	1		ND	5.00	0.119	
75-00-3	Chloroethane	1		ND	5.00	0.647	
67-66-3	Chloroform	1		ND	5.00	0.479	
74-87-3	Chloromethane	1		ND	5.00	0.305	
126-99-8	Chloroprene	1		ND	5.00	0.784	
96-12-8	1,2-Dibromo-3-chloropropane	1		ND	5.00	1.22	
124-48-1	Dibromochloromethane	1		ND	5.00	0.145	
106-93-4	1,2-Dibromoethane (EDB)	1		ND	5.00	0.669	
74-95-3	Dibromomethane	1		ND	5.00	1.39	
110-57-6	trans-1,4-Dichloro-2-butene	1		ND	5.00	1.86	
75-71-8	Dichlorodifluoromethane	1		ND	5.00	0.818	
75-34-3	1,1-Dichloroethane	1		ND	5.00	0.515	
107-06-2	1,2-Dichloroethane	1		ND	5.00	0.212	
75-35-4	1,1-Dichloroethene	1		ND	5.00	0.493	
156-60-5	trans-1,2-Dichloroethene	1		ND	5.00	0.733	
78-87-5	1,2-Dichloropropane	1		ND	5.00	0.328	
10061-01-5	cis-1,3-Dichloropropene	1		ND	5.00	0.0869	
10061-02-6	trans-1,3-Dichloropropene	1		ND	5.00	0.216	

Protocol 4/10/2008 12:26:39

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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Louisiana Dept. of Environmental Quality (LELAP) - 02006
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Arkansas Dept. of Environmental Quality - LA050004
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environmental - E-10266
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Sample Results

Pace Analytical Services, Inc.
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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-4
Project: 2080121
Project ID: LA002656.13.1/MS BLUFFS
Site: None
Lab ID: 20598757
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99681
Method: EPA 8260

Collected: 25-Mar-08
Received: 26-Mar-08
Prepared: 28-Mar-08
Analyzed: 28-Mar-08 00:54 RMP

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
123-91-1	1,4-Dioxane (p-Dioxane)	1		ND	250.	16.8	
100-41-4	Ethylbenzene	1		ND	5.00	0.119	
97-63-2	Ethyl methacrylate	1		ND	10.0	0.475	
591-78-6	2-Hexanone	1		ND	10.0	0.468	
74-88-4	Iodomethane	1		ND	5.00	0.621	
78-83-1	Isobutanol	1		ND	250.	18.7	
126-98-7	Methacrylonitrile	1		ND	100.	16.2	
75-09-2	Methylene chloride	1	A11	ND	5.00	0.710	
80-62-6	Methyl methacrylate	1		ND	10.0	0.997	
108-10-1	4-Methyl-2-pentanone (MIBK)	1		ND	10.0	0.872	
107-12-0	Propionitrile	1		ND	20.0	6.35	
100-42-5	Styrene	1		ND	5.00	0.0763	
630-20-6	1,1,1,2-Tetrachloroethane	1		ND	5.00	0.291	
79-34-5	1,1,2,2-Tetrachloroethane	1		ND	5.00	0.238	
127-18-4	Tetrachloroethene	1		ND	5.00	0.162	
108-88-3	Toluene	1		ND	5.00	0.131	
71-55-6	1,1,1-Trichloroethane	1		ND	5.00	0.609	
79-00-5	1,1,2-Trichloroethane	1		ND	5.00	0.328	
79-01-6	Trichloroethene	1		ND	5.00	0.168	
75-69-4	Trichlorofluoromethane	1		ND	5.00	1.57	
96-18-4	1,2,3-Trichloropropane	1		ND	5.00	1.49	
95-63-6	1,2,4-Trimethylbenzene	1		ND	5.00	0.0844	
108-67-8	1,3,5-Trimethylbenzene	1		ND	5.00	0.0614	
108-05-4	Vinyl acetate	1		ND	10.0	0.686	
75-01-4	Vinyl chloride	1		ND	5.00	0.463	
	m&p-Xylene	1		ND	10.0	0.151	
95-47-6	o-Xylene	1		ND	5.00	0.142	

57 compound(s) reported

Protocol 4/10/2008 12:26:39

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MDL denotes method detection limit

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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-4
Project: 2080121
Project ID: LA002656.13.1/MS BLUFFS
Site: None
Lab ID: 20598757
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99692
Method: EPA 8270

Collected: 25-Mar-08
Received: 26-Mar-08
Prepared: 27-Mar-08
Analyzed: 08-Apr-08 16:57 JAM

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
98-86-2	Acetophenone	1		ND	10.0	1.42	
1912-24-9	Atrazine	1		ND	10.0		
21725-46-2	Cyanazine	1		ND	10.0		
88-85-7	Dinoseb	1		ND	10.0	1.20	
117-81-7	bis(2-Ethylhexyl)phthalate	1	A25	ND	10.0	8.62	
100-02-7	4-Nitrophenol	1		ND	10.0	1.33	
87-86-5	Pentachlorophenol	1		ND	10.0	1.37	

7 compound(s) reported

Protocol 4/10/2008 12:26:39

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-11
Project: 2080121
Project ID: LA002656.13.1/MS BLUFFS
Site: None
Lab ID: 20598759
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99681
Method: EPA 8260

Collected: 25-Mar-08
Received: 26-Mar-08
Prepared: 28-Mar-08
Analyzed: 28-Mar-08 01:53 RMP

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
67-64-1	Acetone	1	A11	ND	10.0	5.90	
75-05-8	Acetonitrile	1		ND	100.	12.5	
107-02-8	Acrolein	1		ND	20.0	9.10	
107-13-1	Acrylonitrile	1		ND	20.0	4.90	
107-05-1	Allyl chloride	1		ND	10.0	1.56	
71-43-2	Benzene	1		ND	5.00	0.117	
75-27-4	Bromodichloromethane	1		ND	5.00	0.206	
75-25-2	Bromoform	1		ND	5.00	0.259	
74-83-9	Bromomethane	1		ND	5.00	1.94	
78-93-3	2-Butanone (MEK)	1	A11	ND	10.0	2.25	
75-15-0	Carbon disulfide	1		ND	5.00	0.257	
56-23-5	Carbon tetrachloride	1		ND	5.00	0.592	
108-90-7	Chlorobenzene	1		ND	5.00	0.119	
75-00-3	Chloroethane	1		ND	5.00	0.647	
67-66-3	Chloroform	1		ND	5.00	0.479	
74-87-3	Chloromethane	1		ND	5.00	0.305	
126-99-8	Chloroprene	1		ND	5.00	0.784	
96-12-8	1,2-Dibromo-3-chloropropane	1		ND	5.00	1.22	
124-48-1	Dibromochloromethane	1		ND	5.00	0.145	
106-93-4	1,2-Dibromoethane (EDB)	1		ND	5.00	0.669	
74-95-3	Dibromomethane	1		ND	5.00	1.39	
110-57-6	trans-1,4-Dichloro-2-butene	1		ND	5.00	1.86	
75-71-8	Dichlorodifluoromethane	1		ND	5.00	0.818	
75-34-3	1,1-Dichloroethane	1		ND	5.00	0.515	
107-06-2	1,2-Dichloroethane	1		ND	5.00	0.212	
75-35-4	1,1-Dichloroethene	1		ND	5.00	0.493	
156-60-5	trans-1,2-Dichloroethene	1		ND	5.00	0.733	
78-87-5	1,2-Dichloropropane	1		ND	5.00	0.328	
10061-01-5	cis-1,3-Dichloropropene	1		ND	5.00	0.0869	
10061-02-6	trans-1,3-Dichloropropene	1		ND	5.00	0.216	

Protocol 4/10/2008 12:26:39

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-11
Project: 2080121
Project ID: LA002656.13.1/MS BLUFFS
Site: None
Lab ID: 20598759
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99681
Method: EPA 8260

Collected: 25-Mar-08
Received: 26-Mar-08
Prepared: 28-Mar-08
Analyzed: 28-Mar-08 01:53 RMP

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
123-91-1	1,4-Dioxane (p-Dioxane)	1		ND	250.	16.8	
100-41-4	Ethylbenzene	1		ND	5.00	0.119	
97-63-2	Ethyl methacrylate	1		ND	10.0	0.475	
591-78-6	2-Hexanone	1		ND	10.0	0.468	
74-88-4	Iodomethane	1		ND	5.00	0.621	
78-83-1	Isobutanol	1		ND	250.	18.7	
126-98-7	Methacrylonitrile	1		ND	100.	16.2	
75-09-2	Methylene chloride	1	A11	ND	5.00	0.710	
80-62-6	Methyl methacrylate	1		ND	10.0	0.997	
108-10-1	4-Methyl-2-pentanone (MIBK)	1		ND	10.0	0.872	
107-12-0	Propionitrile	1		ND	20.0	6.35	
100-42-5	Styrene	1		ND	5.00	0.0763	
630-20-6	1,1,1,2-Tetrachloroethane	1		ND	5.00	0.291	
79-34-5	1,1,2,2-Tetrachloroethane	1		ND	5.00	0.238	
127-18-4	Tetrachloroethene	1		ND	5.00	0.162	
108-88-3	Toluene	1		ND	5.00	0.131	
71-55-6	1,1,1-Trichloroethane	1		ND	5.00	0.609	
79-00-5	1,1,2-Trichloroethane	1		ND	5.00	0.328	
79-01-6	Trichloroethene	1		9.30	5.00	0.168	
75-69-4	Trichlorofluoromethane	1		ND	5.00	1.57	
96-18-4	1,2,3-Trichloropropane	1		ND	5.00	1.49	
95-63-6	1,2,4-Trimethylbenzene	1		ND	5.00	0.0844	
108-67-8	1,3,5-Trimethylbenzene	1		ND	5.00	0.0614	
108-05-4	Vinyl acetate	1		ND	10.0	0.686	
75-01-4	Vinyl chloride	1		ND	5.00	0.463	
	m&p-Xylene	1		ND	10.0	0.151	
95-47-6	o-Xylene	1		ND	5.00	0.142	

57 compound(s) reported

Protocol 4/10/2008 12:26:39

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-11
Project ID: LA002656.13.1/MS BLUFFS
Lab ID: 20598759
Description: None
Method: EPA 8270

Project: 2080121
Site: None
Matrix: Water
Prep Level: Water

% Moisture: n/a
Batch: 99692

Collected: 25-Mar-08
Received: 26-Mar-08
Prepared: 27-Mar-08
Analyzed: 08-Apr-08 20:25 JAM

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
98-86-2	Acetophenone	1		ND	10.0	1.42	
1912-24-9	Atrazine	1		ND	10.0		
21725-46-2	Cyanazine	1		ND	10.0		
88-85-7	Dinoseb	1		10.1	10.0	1.20	
117-81-7	bis(2-Ethylhexyl)phthalate	1	A25	ND	10.0	8.62	
100-02-7	4-Nitrophenol	1		ND	10.0	1.33	
87-86-5	Pentachlorophenol	1		ND	10.0	1.37	

7 compound(s) reported

Protocol 4/10/2008 12:26:39

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-10C
Project: 2080121
Project ID: LA002656.13.1/MS BLUFFS
Site: None
Lab ID: 20598770
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99681
Method: EPA 8260

Collected: 25-Mar-08
Received: 26-Mar-08
Prepared: 28-Mar-08
Analyzed: 28-Mar-08 02:13 RMP

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
67-64-1	Acetone	1	A11	ND	10.0	5.90	
75-05-8	Acetonitrile	1		ND	100.	12.5	
107-02-8	Acrolein	1		ND	20.0	9.10	
107-13-1	Acrylonitrile	1		ND	20.0	4.90	
107-05-1	Allyl chloride	1		ND	10.0	1.56	
71-43-2	Benzene	1		ND	5.00	0.117	
75-27-4	Bromodichloromethane	1		ND	5.00	0.206	
75-25-2	Bromoform	1		ND	5.00	0.259	
74-83-9	Bromomethane	1		ND	5.00	1.94	
78-93-3	2-Butanone (MEK)	1	A11	ND	10.0	2.25	
75-15-0	Carbon disulfide	1		ND	5.00	0.257	
56-23-5	Carbon tetrachloride	5	D1	348.	25.0	2.96	
108-90-7	Chlorobenzene	1		ND	5.00	0.119	
75-00-3	Chloroethane	1		ND	5.00	0.647	
67-66-3	Chloroform	5	D1	475.	25.0	2.40	
74-87-3	Chloromethane	1		ND	5.00	0.305	
126-99-8	Chloroprene	1		ND	5.00	0.784	
96-12-8	1,2-Dibromo-3-chloropropane	1		ND	5.00	1.22	
124-48-1	Dibromochloromethane	1		ND	5.00	0.145	
106-93-4	1,2-Dibromoethane (EDB)	1		ND	5.00	0.669	
74-95-3	Dibromomethane	1		ND	5.00	1.39	
110-57-6	trans-1,4-Dichloro-2-butene	1		ND	5.00	1.86	
75-71-8	Dichlorodifluoromethane	1		ND	5.00	0.818	
75-34-3	1,1-Dichloroethane	1		ND	5.00	0.515	
107-06-2	1,2-Dichloroethane	1		ND	5.00	0.212	
75-35-4	1,1-Dichloroethene	1		ND	5.00	0.493	
156-60-5	trans-1,2-Dichloroethene	1		ND	5.00	0.733	
78-87-5	1,2-Dichloropropane	1		ND	5.00	0.328	
10061-01-5	cis-1,3-Dichloropropene	1		ND	5.00	0.0869	
10061-02-6	trans-1,3-Dichloropropene	1		ND	5.00	0.216	

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-10C
Project: 2080121
Project ID: LA002656.13.1/MS BLUFFS
Site: None
Lab ID: 20598770
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99681
Method: EPA 8260

Collected: 25-Mar-08
Received: 26-Mar-08
Prepared: 28-Mar-08
Analyzed: 28-Mar-08 02:13 RMP

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
123-91-1	1,4-Dioxane (p-Dioxane)	1		ND	250.	16.8	
100-41-4	Ethylbenzene	1		ND	5.00	0.119	
97-63-2	Ethyl methacrylate	1		ND	10.0	0.475	
591-78-6	2-Hexanone	1		ND	10.0	0.468	
74-88-4	Iodomethane	1		ND	5.00	0.621	
78-83-1	Isobutanol	1		ND	250.	18.7	
126-98-7	Methacrylonitrile	1		ND	100.	16.2	
75-09-2	Methylene chloride	1	A11	0.980 J	5.00	0.710	
80-62-6	Methyl methacrylate	1		ND	10.0	0.997	
108-10-1	4-Methyl-2-pentanone (MIBK)	1		ND	10.0	0.872	
107-12-0	Propionitrile	1		ND	20.0	6.35	
100-42-5	Styrene	1		ND	5.00	0.0763	
630-20-6	1,1,1,2-Tetrachloroethane	1		1.88 J	5.00	0.291	
79-34-5	1,1,2,2-Tetrachloroethane	1		ND	5.00	0.238	
127-18-4	Tetrachloroethene	1		2.15 J	5.00	0.162	
108-88-3	Toluene	1		ND	5.00	0.131	
71-55-6	1,1,1-Trichloroethane	1		ND	5.00	0.609	
79-00-5	1,1,2-Trichloroethane	1		1.36 J	5.00	0.328	
79-01-6	Trichloroethene	1		ND	5.00	0.168	
75-69-4	Trichlorofluoromethane	1		ND	5.00	1.57	
96-18-4	1,2,3-Trichloropropane	1		ND	5.00	1.49	
95-63-6	1,2,4-Trimethylbenzene	1		ND	5.00	0.0844	
108-67-8	1,3,5-Trimethylbenzene	1		ND	5.00	0.0614	
108-05-4	Vinyl acetate	1		ND	10.0	0.686	
75-01-4	Vinyl chloride	1		ND	5.00	0.463	
	m&p-Xylene	1		ND	10.0	0.151	
95-47-6	o-Xylene	1		ND	5.00	0.142	

57 compound(s) reported

Protocol 4/10/2008 12:26:39

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Louisiana Dept. of Environmental Quality (LELAP) - 02006
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Arkansas Dept. of Environmental Quality - LA050004
Florida Dept. of Health (NELAC) - E87595
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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-10C
Project: 2080121
Project ID: LA002656.13.1/MS BLUFFS
Site: None
Lab ID: 20598770
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99692
Method: EPA 8270

Collected: 25-Mar-08
Received: 26-Mar-08
Prepared: 27-Mar-08
Analyzed: 08-Apr-08 15:39 JAM

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
98-86-2	Acetophenone	1		ND	10.0	1.42	
1912-24-9	Atrazine	1		ND	10.0		
21725-46-2	Cyanazine	1		ND	10.0		
88-85-7	Dinoseb	100	D1	3280	1000	120.	
117-81-7	bis(2-Ethylhexyl)phthalate	1	A25	ND	10.0	8.62	
100-02-7	4-Nitrophenol	1		ND	10.0	1.33	
87-86-5	Pentachlorophenol	1		ND	10.0	1.37	

7 compound(s) reported

Protocol 4/10/2008 12:26:39

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-18B
Project: 2080121
Project ID: LA002656.13.1/MS BLUFFS
Site: None
Lab ID: 20598771
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99681
Method: EPA 8260

Collected: 25-Mar-08
Received: 26-Mar-08
Prepared: 28-Mar-08
Analyzed: 28-Mar-08 02:33 RMP

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
67-64-1	Acetone	1	A11	ND	10.0	5.90	
75-05-8	Acetonitrile	1		ND	100.	12.5	
107-02-8	Acrolein	1		ND	20.0	9.10	
107-13-1	Acrylonitrile	1		ND	20.0	4.90	
107-05-1	Allyl chloride	1		ND	10.0	1.56	
71-43-2	Benzene	1		ND	5.00	0.117	
75-27-4	Bromodichloromethane	1		ND	5.00	0.206	
75-25-2	Bromoform	1		ND	5.00	0.259	
74-83-9	Bromomethane	1		ND	5.00	1.94	
78-93-3	2-Butanone (MEK)	1	A11	ND	10.0	2.25	
75-15-0	Carbon disulfide	1		ND	5.00	0.257	
56-23-5	Carbon tetrachloride	1		ND	5.00	0.592	
108-90-7	Chlorobenzene	1		ND	5.00	0.119	
75-00-3	Chloroethane	1		ND	5.00	0.647	
67-66-3	Chloroform	1		ND	5.00	0.479	
74-87-3	Chloromethane	1		ND	5.00	0.305	
126-99-8	Chloroprene	1		ND	5.00	0.784	
96-12-8	1,2-Dibromo-3-chloropropane	1		ND	5.00	1.22	
124-48-1	Dibromochloromethane	1		ND	5.00	0.145	
106-93-4	1,2-Dibromoethane (EDB)	1		ND	5.00	0.669	
74-95-3	Dibromomethane	1		ND	5.00	1.39	
110-57-6	trans-1,4-Dichloro-2-butene	1		ND	5.00	1.86	
75-71-8	Dichlorodifluoromethane	1		ND	5.00	0.818	
75-34-3	1,1-Dichloroethane	1		ND	5.00	0.515	
107-06-2	1,2-Dichloroethane	1		ND	5.00	0.212	
75-35-4	1,1-Dichloroethene	1		ND	5.00	0.493	
156-60-5	trans-1,2-Dichloroethene	1		ND	5.00	0.733	
78-87-5	1,2-Dichloropropane	1		ND	5.00	0.328	
10061-01-5	cis-1,3-Dichloropropene	1		ND	5.00	0.0869	
10061-02-6	trans-1,3-Dichloropropene	1		ND	5.00	0.216	

Protocol 4/10/2008 12:26:39

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-18B
Project: 2080121
Project ID: LA002656.13.1/MS BLUFFS
Site: None
Lab ID: 20598771
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99681
Method: EPA 8260

Collected: 25-Mar-08
Received: 26-Mar-08
Prepared: 28-Mar-08
Analyzed: 28-Mar-08 02:33 RMP

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
123-91-1	1,4-Dioxane (p-Dioxane)	1		ND	250.	16.8	
100-41-4	Ethylbenzene	1		234.	5.00	0.119	
97-63-2	Ethyl methacrylate	1		ND	10.0	0.475	
591-78-6	2-Hexanone	1		ND	10.0	0.468	
74-88-4	Iodomethane	1		ND	5.00	0.621	
78-83-1	Isobutanol	1		ND	250.	18.7	
126-98-7	Methacrylonitrile	1		ND	100.	16.2	
75-09-2	Methylene chloride	1	A11	ND	5.00	0.710	
80-62-6	Methyl methacrylate	1		ND	10.0	0.997	
108-10-1	4-Methyl-2-pentanone (MIBK)	1		ND	10.0	0.872	
107-12-0	Propionitrile	1		ND	20.0	6.35	
100-42-5	Styrene	1		ND	5.00	0.0763	
630-20-6	1,1,1,2-Tetrachloroethane	1		ND	5.00	0.291	
79-34-5	1,1,2,2-Tetrachloroethane	1		ND	5.00	0.238	
127-18-4	Tetrachloroethene	1		ND	5.00	0.162	
108-88-3	Toluene	1		0.590 J	5.00	0.131	
71-55-6	1,1,1-Trichloroethane	1		ND	5.00	0.609	
79-00-5	1,1,2-Trichloroethane	1		ND	5.00	0.328	
79-01-6	Trichloroethene	1		ND	5.00	0.168	
75-69-4	Trichlorofluoromethane	1		ND	5.00	1.57	
96-18-4	1,2,3-Trichloropropane	1		ND	5.00	1.49	
95-63-6	1,2,4-Trimethylbenzene	5	D1	329.	25.0	0.422	
108-67-8	1,3,5-Trimethylbenzene	5	D1	138.	25.0	0.307	
108-05-4	Vinyl acetate	1		ND	10.0	0.686	
75-01-4	Vinyl chloride	1		ND	5.00	0.463	
	m&p-Xylene	1		179.	10.0	0.151	
95-47-6	o-Xylene	1		120.	5.00	0.142	

57 compound(s) reported

Protocol 4/10/2008 12:26:39

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-18B
Project: 2080121
Project ID: LA002656.13.1/MS BLUFFS
Site: None
Lab ID: 20598771
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99692
Method: EPA 8270

Collected: 25-Mar-08
Received: 26-Mar-08
Prepared: 27-Mar-08
Analyzed: 08-Apr-08 16:05 JAM

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
98-86-2	Acetophenone	1		ND	10.0	1.42	
1912-24-9	Atrazine	1		ND	10.0		
21725-46-2	Cyanazine	1		ND	10.0		
88-85-7	Dinoseb	1		ND	10.0	1.20	
117-81-7	bis(2-Ethylhexyl)phthalate	1	A25	ND	10.0	8.62	
100-02-7	4-Nitrophenol	1		ND	10.0	1.33	
87-86-5	Pentachlorophenol	1		ND	10.0	1.37	

7 compound(s) reported

Protocol 4/10/2008 12:26:39

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: RINSATE-02
Project: 2080121
Project ID: LA002656.13.1/MS BLUFFS
Site: None
Lab ID: 20598772
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99681
Method: EPA 8260

Collected: 25-Mar-08
Received: 26-Mar-08
Prepared: 28-Mar-08
Analyzed: 28-Mar-08 02:53 RMP

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
67-64-1	Acetone	1	A11	ND	10.0	5.90	
75-05-8	Acetonitrile	1		ND	100.	12.5	
107-02-8	Acrolein	1		ND	20.0	9.10	
107-13-1	Acrylonitrile	1		ND	20.0	4.90	
107-05-1	Allyl chloride	1		ND	10.0	1.56	
71-43-2	Benzene	1		ND	5.00	0.117	
75-27-4	Bromodichloromethane	1		ND	5.00	0.206	
75-25-2	Bromoform	1		ND	5.00	0.259	
74-83-9	Bromomethane	1		ND	5.00	1.94	
78-93-3	2-Butanone (MEK)	1	A11	ND	10.0	2.25	
75-15-0	Carbon disulfide	1		ND	5.00	0.257	
56-23-5	Carbon tetrachloride	1		ND	5.00	0.592	
108-90-7	Chlorobenzene	1		ND	5.00	0.119	
75-00-3	Chloroethane	1		ND	5.00	0.647	
67-66-3	Chloroform	1		ND	5.00	0.479	
74-87-3	Chloromethane	1		ND	5.00	0.305	
126-99-8	Chloroprene	1		ND	5.00	0.784	
96-12-8	1,2-Dibromo-3-chloropropane	1		ND	5.00	1.22	
124-48-1	Dibromochloromethane	1		ND	5.00	0.145	
106-93-4	1,2-Dibromoethane (EDB)	1		ND	5.00	0.669	
74-95-3	Dibromomethane	1		ND	5.00	1.39	
110-57-6	trans-1,4-Dichloro-2-butene	1		ND	5.00	1.86	
75-71-8	Dichlorodifluoromethane	1		ND	5.00	0.818	
75-34-3	1,1-Dichloroethane	1		ND	5.00	0.515	
107-06-2	1,2-Dichloroethane	1		ND	5.00	0.212	
75-35-4	1,1-Dichloroethene	1		ND	5.00	0.493	
156-60-5	trans-1,2-Dichloroethene	1		ND	5.00	0.733	
78-87-5	1,2-Dichloropropane	1		ND	5.00	0.328	
10061-01-5	cis-1,3-Dichloropropene	1		ND	5.00	0.0869	
10061-02-6	trans-1,3-Dichloropropene	1		ND	5.00	0.216	

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: RINSATE-02
Project: 2080121
Project ID: LA002656.13.1/MS BLUFFS
Site: None
Lab ID: 20598772
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99681
Method: EPA 8260

Collected: 25-Mar-08
Received: 26-Mar-08
Prepared: 28-Mar-08
Analyzed: 28-Mar-08 02:53 RMP

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
123-91-1	1,4-Dioxane (p-Dioxane)	1		ND	250.	16.8	
100-41-4	Ethylbenzene	1		ND	5.00	0.119	
97-63-2	Ethyl methacrylate	1		ND	10.0	0.475	
591-78-6	2-Hexanone	1		ND	10.0	0.468	
74-88-4	Iodomethane	1		ND	5.00	0.621	
78-83-1	Isobutanol	1		ND	250.	18.7	
126-98-7	Methacrylonitrile	1		ND	100.	16.2	
75-09-2	Methylene chloride	1	A11	ND	5.00	0.710	
80-62-6	Methyl methacrylate	1		ND	10.0	0.997	
108-10-1	4-Methyl-2-pentanone (MIBK)	1		ND	10.0	0.872	
107-12-0	Propionitrile	1		ND	20.0	6.35	
100-42-5	Styrene	1		ND	5.00	0.0763	
630-20-6	1,1,1,2-Tetrachloroethane	1		ND	5.00	0.291	
79-34-5	1,1,2,2-Tetrachloroethane	1		ND	5.00	0.238	
127-18-4	Tetrachloroethene	1		ND	5.00	0.162	
108-88-3	Toluene	1		ND	5.00	0.131	
71-55-6	1,1,1-Trichloroethane	1		ND	5.00	0.609	
79-00-5	1,1,2-Trichloroethane	1		ND	5.00	0.328	
79-01-6	Trichloroethene	1		ND	5.00	0.168	
75-69-4	Trichlorofluoromethane	1		ND	5.00	1.57	
96-18-4	1,2,3-Trichloropropane	1		ND	5.00	1.49	
95-63-6	1,2,4-Trimethylbenzene	1		ND	5.00	0.0844	
108-67-8	1,3,5-Trimethylbenzene	1		ND	5.00	0.0614	
108-05-4	Vinyl acetate	1		ND	10.0	0.686	
75-01-4	Vinyl chloride	1		ND	5.00	0.463	
	m&p-Xylene	1		ND	10.0	0.151	
95-47-6	o-Xylene	1		ND	5.00	0.142	

57 compound(s) reported

Protocol 4/10/2008 12:26:39

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: RINSATE-02
Project: 2080121
Project ID: LA002656.13.1/MS BLUFFS
Site: None
Lab ID: 20598772
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99692
Method: EPA 8270

Collected: 25-Mar-08
Received: 26-Mar-08
Prepared: 27-Mar-08
Analyzed: 08-Apr-08 20:51 JAM

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
98-86-2	Acetophenone	1		ND	10.0	1.42	
1912-24-9	Atrazine	1		ND	10.0		
21725-46-2	Cyanazine	1		ND	10.0		
88-85-7	Dinoseb	1		ND	10.0	1.20	
117-81-7	bis(2-Ethylhexyl)phthalate	1	A25	ND	10.0	8.62	
100-02-7	4-Nitrophenol	1		ND	10.0	1.33	
87-86-5	Pentachlorophenol	1		ND	10.0	1.37	

7 compound(s) reported

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Kansas Dept. of Health Environmental - E-10266
Pennsylvania DEP (NELAC) 68-04202
U.S. Dept. of Agricultural Foreign Soil Permit - S-47270

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Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: FB-02
Project: 2080121
Project ID: LA002656.13.1/MS BLUFFS
Site: None
Lab ID: 20598773
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99681
Method: EPA 8260

Collected: 25-Mar-08
Received: 26-Mar-08
Prepared: 28-Mar-08
Analyzed: 28-Mar-08 03:13 RMP

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
67-64-1	Acetone	1	A11	ND	10.0	5.90	
75-05-8	Acetonitrile	1		ND	100.	12.5	
107-02-8	Acrolein	1		ND	20.0	9.10	
107-13-1	Acrylonitrile	1		ND	20.0	4.90	
107-05-1	Allyl chloride	1		ND	10.0	1.56	
71-43-2	Benzene	1		ND	5.00	0.117	
75-27-4	Bromodichloromethane	1		ND	5.00	0.206	
75-25-2	Bromoform	1		ND	5.00	0.259	
74-83-9	Bromomethane	1		ND	5.00	1.94	
78-93-3	2-Butanone (MEK)	1	A11	ND	10.0	2.25	
75-15-0	Carbon disulfide	1		ND	5.00	0.257	
56-23-5	Carbon tetrachloride	1		ND	5.00	0.592	
108-90-7	Chlorobenzene	1		ND	5.00	0.119	
75-00-3	Chloroethane	1		ND	5.00	0.647	
67-66-3	Chloroform	1		ND	5.00	0.479	
74-87-3	Chloromethane	1		ND	5.00	0.305	
126-99-8	Chloroprene	1		ND	5.00	0.784	
96-12-8	1,2-Dibromo-3-chloropropane	1		ND	5.00	1.22	
124-48-1	Dibromochloromethane	1		ND	5.00	0.145	
106-93-4	1,2-Dibromoethane (EDB)	1		ND	5.00	0.669	
74-95-3	Dibromomethane	1		ND	5.00	1.39	
110-57-6	trans-1,4-Dichloro-2-butene	1		ND	5.00	1.86	
75-71-8	Dichlorodifluoromethane	1		ND	5.00	0.818	
75-34-3	1,1-Dichloroethane	1		ND	5.00	0.515	
107-06-2	1,2-Dichloroethane	1		ND	5.00	0.212	
75-35-4	1,1-Dichloroethene	1		ND	5.00	0.493	
156-60-5	trans-1,2-Dichloroethene	1		ND	5.00	0.733	
78-87-5	1,2-Dichloropropane	1		ND	5.00	0.328	
10061-01-5	cis-1,3-Dichloropropene	1		ND	5.00	0.0869	
10061-02-6	trans-1,3-Dichloropropene	1		ND	5.00	0.216	

Protocol 4/10/2008 12:26:39

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: FB-02
Project: 2080121
Project ID: LA002656.13.1/MS BLUFFS
Site: None
Lab ID: 20598773
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99681
Method: EPA 8260

Collected: 25-Mar-08
Received: 26-Mar-08
Prepared: 28-Mar-08
Analyzed: 28-Mar-08 03:13 RMP

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
123-91-1	1,4-Dioxane (p-Dioxane)	1		ND	250.	16.8	
100-41-4	Ethylbenzene	1		ND	5.00	0.119	
97-63-2	Ethyl methacrylate	1		ND	10.0	0.475	
591-78-6	2-Hexanone	1		ND	10.0	0.468	
74-88-4	Iodomethane	1		ND	5.00	0.621	
78-83-1	Isobutanol	1		ND	250.	18.7	
126-98-7	Methacrylonitrile	1		ND	100.	16.2	
75-09-2	Methylene chloride	1	A11	ND	5.00	0.710	
80-62-6	Methyl methacrylate	1		ND	10.0	0.997	
108-10-1	4-Methyl-2-pentanone (MIBK)	1		ND	10.0	0.872	
107-12-0	Propionitrile	1		ND	20.0	6.35	
100-42-5	Styrene	1		ND	5.00	0.0763	
630-20-6	1,1,1,2-Tetrachloroethane	1		ND	5.00	0.291	
79-34-5	1,1,2,2-Tetrachloroethane	1		ND	5.00	0.238	
127-18-4	Tetrachloroethene	1		ND	5.00	0.162	
108-88-3	Toluene	1		ND	5.00	0.131	
71-55-6	1,1,1-Trichloroethane	1		ND	5.00	0.609	
79-00-5	1,1,2-Trichloroethane	1		ND	5.00	0.328	
79-01-6	Trichloroethene	1		ND	5.00	0.168	
75-69-4	Trichlorofluoromethane	1		ND	5.00	1.57	
96-18-4	1,2,3-Trichloropropane	1		ND	5.00	1.49	
95-63-6	1,2,4-Trimethylbenzene	1		ND	5.00	0.0844	
108-67-8	1,3,5-Trimethylbenzene	1		ND	5.00	0.0614	
108-05-4	Vinyl acetate	1		ND	10.0	0.686	
75-01-4	Vinyl chloride	1		ND	5.00	0.463	
	m&p-Xylene	1		ND	10.0	0.151	
95-47-6	o-Xylene	1		ND	5.00	0.142	

57 compound(s) reported

Protocol 4/10/2008 12:26:39

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: TB-03
Project: 2080121
Project ID: LA002656.13.1/MS BLUFFS
Site: None
Lab ID: 20598775
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99681
Method: EPA 8260

Collected: 24-Mar-08
Received: 26-Mar-08
Prepared: 28-Mar-08
Analyzed: 28-Mar-08 03:33 RMP

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
67-64-1	Acetone	1	A11	ND	10.0	5.90	
75-05-8	Acetonitrile	1		ND	100.	12.5	
107-02-8	Acrolein	1		ND	20.0	9.10	
107-13-1	Acrylonitrile	1		ND	20.0	4.90	
107-05-1	Allyl chloride	1		ND	10.0	1.56	
71-43-2	Benzene	1		ND	5.00	0.117	
75-27-4	Bromodichloromethane	1		ND	5.00	0.206	
75-25-2	Bromoform	1		ND	5.00	0.259	
74-83-9	Bromomethane	1		ND	5.00	1.94	
78-93-3	2-Butanone (MEK)	1	A11	ND	10.0	2.25	
75-15-0	Carbon disulfide	1		ND	5.00	0.257	
56-23-5	Carbon tetrachloride	1		ND	5.00	0.592	
108-90-7	Chlorobenzene	1		ND	5.00	0.119	
75-00-3	Chloroethane	1		ND	5.00	0.647	
67-66-3	Chloroform	1		ND	5.00	0.479	
74-87-3	Chloromethane	1		ND	5.00	0.305	
126-99-8	Chloroprene	1		ND	5.00	0.784	
96-12-8	1,2-Dibromo-3-chloropropane	1		ND	5.00	1.22	
124-48-1	Dibromochloromethane	1		ND	5.00	0.145	
106-93-4	1,2-Dibromoethane (EDB)	1		ND	5.00	0.669	
74-95-3	Dibromomethane	1		ND	5.00	1.39	
110-57-6	trans-1,4-Dichloro-2-butene	1		ND	5.00	1.86	
75-71-8	Dichlorodifluoromethane	1		ND	5.00	0.818	
75-34-3	1,1-Dichloroethane	1		ND	5.00	0.515	
107-06-2	1,2-Dichloroethane	1		ND	5.00	0.212	
75-35-4	1,1-Dichloroethene	1		ND	5.00	0.493	
156-60-5	trans-1,2-Dichloroethene	1		ND	5.00	0.733	
78-87-5	1,2-Dichloropropane	1		ND	5.00	0.328	
10061-01-5	cis-1,3-Dichloropropene	1		ND	5.00	0.0869	
10061-02-6	trans-1,3-Dichloropropene	1		ND	5.00	0.216	

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: TB-03
Project: 2080121
Project ID: LA002656.13.1/MS BLUFFS
Site: None
Lab ID: 20598775
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99681
Method: EPA 8260

Collected: 24-Mar-08
Received: 26-Mar-08
Prepared: 28-Mar-08
Analyzed: 28-Mar-08 03:33 RMP

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result		Reporting Limit	MDL	Reg Limit
123-91-1	1,4-Dioxane (p-Dioxane)	1		ND		250.	16.8	
100-41-4	Ethylbenzene	1		ND		5.00	0.119	
97-63-2	Ethyl methacrylate	1		ND		10.0	0.475	
591-78-6	2-Hexanone	1		ND		10.0	0.468	
74-88-4	Iodomethane	1		ND		5.00	0.621	
78-83-1	Isobutanol	1		ND		250.	18.7	
126-98-7	Methacrylonitrile	1		ND		100.	16.2	
75-09-2	Methylene chloride	1	A11	1.85	J	5.00	0.710	
80-62-6	Methyl methacrylate	1		ND		10.0	0.997	
108-10-1	4-Methyl-2-pentanone (MIBK)	1		ND		10.0	0.872	
107-12-0	Propionitrile	1		ND		20.0	6.35	
100-42-5	Styrene	1		ND		5.00	0.0763	
630-20-6	1,1,1,2-Tetrachloroethane	1		ND		5.00	0.291	
79-34-5	1,1,2,2-Tetrachloroethane	1		ND		5.00	0.238	
127-18-4	Tetrachloroethene	1		ND		5.00	0.162	
108-88-3	Toluene	1		ND		5.00	0.131	
71-55-6	1,1,1-Trichloroethane	1		ND		5.00	0.609	
79-00-5	1,1,2-Trichloroethane	1		ND		5.00	0.328	
79-01-6	Trichloroethene	1		ND		5.00	0.168	
75-69-4	Trichlorofluoromethane	1		ND		5.00	1.57	
96-18-4	1,2,3-Trichloropropane	1		ND		5.00	1.49	
95-63-6	1,2,4-Trimethylbenzene	1		ND		5.00	0.0844	
108-67-8	1,3,5-Trimethylbenzene	1		ND		5.00	0.0614	
108-05-4	Vinyl acetate	1		ND		10.0	0.686	
75-01-4	Vinyl chloride	1		ND		5.00	0.463	
	m&p-Xylene	1		ND		10.0	0.151	
95-47-6	o-Xylene	1		ND		5.00	0.142	

57 compound(s) reported

Protocol 4/10/2008 12:26:39

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-21A
Project: 2080121
Project ID: LA002656.13.1/MS BLUFFS
Site: None
Lab ID: 20598750
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99845
Method: EPA 8081

Collected: 24-Mar-08
Received: 26-Mar-08
Prepared: 31-Mar-08
Analyzed: 09-Apr-08 19:19 SLF

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
8001-35-2	Toxaphene	1		ND	2.00	2.00	

1 compound(s) reported

Protocol 4/10/2008 12:26:40

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Phone: 504.469.0333
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Client: Arcadis Geraghty & Miller

Client ID: PZ-22B
Project: 2080121
Project ID: LA002656.13.1/MS BLUFFS
Site: None
Lab ID: 20598751
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99845
Method: EPA 8081

Collected: 24-Mar-08
Received: 26-Mar-08
Prepared: 31-Mar-08
Analyzed: 09-Apr-08 19:41 SLF

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
8001-35-2	Toxaphene	1		ND	2.00	2.00	

1 compound(s) reported

Protocol 4/10/2008 12:26:40

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MDL denotes method detection limit

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-23B
Project: 2080121
Project ID: LA002656.13.1/MS BLUFFS
Site: None
Lab ID: 20598752
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99845
Method: EPA 8081

Collected: 24-Mar-08
Received: 26-Mar-08
Prepared: 31-Mar-08
Analyzed: 09-Apr-08 20:03 SLF

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
8001-35-2	Toxaphene	1		ND	2.00	2.00	

1 compound(s) reported

Protocol 4/10/2008 12:26:40

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Phone: 504.469.0333
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-25B
Project: 2080121
Project ID: LA002656.13.1/MS BLUFFS
Site: None
Lab ID: 20598753
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99845
Method: EPA 8081

Collected: 24-Mar-08
Received: 26-Mar-08
Prepared: 31-Mar-08
Analyzed: 09-Apr-08 20:24 SLF

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
8001-35-2	Toxaphene	1		ND	2.00	2.00	

1 compound(s) reported

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MDL denotes method detection limit

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: PZ-26A
Project: 2080121
Project ID: LA002656.13.1/MS BLUFFS
Site: None
Lab ID: 20598754
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99845
Method: EPA 8081

Collected: 24-Mar-08
Received: 26-Mar-08
Prepared: 31-Mar-08
Analyzed: 09-Apr-08 20:46 SLF

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
8001-35-2	Toxaphene	1		ND	2.00	2.00	

1 compound(s) reported

Protocol 4/10/2008 12:26:40

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: DUP-02
Project: 2080121
Project ID: LA002656.13.1/MS BLUFFS
Site: None
Lab ID: 20598756
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99845
Method: EPA 8081

Collected: 24-Mar-08
Received: 26-Mar-08
Prepared: 31-Mar-08
Analyzed: 09-Apr-08 21:08 SLF

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
8001-35-2	Toxaphene	1		ND	2.00	2.00	

1 compound(s) reported

Protocol 4/10/2008 12:26:40

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Louisiana Dept. of Environmental Quality (LELAP) - 02006
Louisiana Dept. of Health and Hospitals / Drinking Water - LA050004
Arkansas Dept. of Environmental Quality - LA050004
Florida Dept. of Health (NELAC) - E87595
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Pace Analytical Services, Inc.
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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-4
Project ID: LA002656.13.1/MS BLUFFS
Lab ID: 20598757
Description: None
Method: EPA 8081

Project: 2080121
Site: None
Matrix: Water
Prep Level: Water

% Moisture: n/a
Batch: 99845

Collected: 25-Mar-08
Received: 26-Mar-08
Prepared: 31-Mar-08
Analyzed: 09-Apr-08 21:30 SLF

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
8001-35-2	Toxaphene	1		ND	2.00	2.00	

1 compound(s) reported

Protocol 4/10/2008 12:26:40

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

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Client: Arcadis Geraghty & Miller

Client ID: MW-11
Project ID: LA002656.13.1/MS BLUFFS
Lab ID: 20598759
Description: None
Method: EPA 8081

Project: 2080121
Site: None
Matrix: Water
Prep Level: Water

% Moisture: n/a
Batch: 99845

Collected: 25-Mar-08
Received: 26-Mar-08
Prepared: 31-Mar-08
Analyzed: 09-Apr-08 22:35 SLF

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
8001-35-2	Toxaphene	1		ND	2.00	2.00	

1 compound(s) reported

Protocol 4/10/2008 12:26:40

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-10C
Project: 2080121
Project ID: LA002656.13.1/MS BLUFFS
Site: None
Lab ID: 20598770
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99845
Method: EPA 8081

Collected: 25-Mar-08
Received: 26-Mar-08
Prepared: 31-Mar-08
Analyzed: 09-Apr-08 22:57 SLF

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
8001-35-2	Toxaphene	1		ND	2.00	2.00	

1 compound(s) reported

Protocol 4/10/2008 12:26:40

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: MW-18B
Project ID: LA002656.13.1/MS BLUFFS
Lab ID: 20598771
Description: None
Method: EPA 8081

Project: 2080121
Site: None
Matrix: Water
Prep Level: Water

% Moisture: n/a
Batch: 99845

Collected: 25-Mar-08
Received: 26-Mar-08
Prepared: 31-Mar-08
Analyzed: 09-Apr-08 23:19 SLF

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
8001-35-2	Toxaphene	1		ND	2.00	2.00	

1 compound(s) reported

Protocol 4/10/2008 12:26:40

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

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LELAP # 02006

Client: Arcadis Geraghty & Miller

Client ID: RINSATE-02
Project: 2080121
Project ID: LA002656.13.1/MS BLUFFS
Site: None
Lab ID: 20598772
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 99845
Method: EPA 8081

Collected: 25-Mar-08
Received: 26-Mar-08
Prepared: 31-Mar-08
Analyzed: 09-Apr-08 23:41 SLF

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL	Reg Limit
8001-35-2	Toxaphene	1		ND	2.00	2.00	

1 compound(s) reported

Protocol 4/10/2008 12:26:40

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Method: EPA 8260 **Project:** 2080121 **LCS:** 20598789 27-Mar-08 21:34

Batch: 99681 **MS:** 20598790 28-Mar-08 1:13

MSD: 20598791 28-Mar-08 1:33

Units: ug/L **Original for MS:** 20598757 Project Sample

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Acetone	50	69.45	139	50	0.00	80.03	86.27	160	173	8	22 - 165	11 - 217	20	M11,Q5
Acetonitrile	550	858.4	156	550	0.00	834.8	842.5	152	153	1	15 - 171	10 - 261	20	Q5
Acrolein	100	44.26	44	100	0.00	43.68	42.66	44	43	2	10 - 131	10 - 142	20	Q5
Acrylonitrile	150	133.7	89	150	0.00	168.6	180.4	112	120	7	18 - 149	20 - 164	20	Q5
Allyl chloride	100	88.11	88	100	0.00	87.5	87.5	88	88	0	52 - 127	51 - 129	20	Q5
Benzene	50	43.76	88	50	0.00	38.19	37.73	76	76	1	62 - 131	52 - 141	20	Q5
Bromodichloromethane	50	59.67	119	50	0.00	60.81	61.25	122	123	1	69 - 132	70 - 134	20	Q5
Bromoform	50	58.54	117	50	0.00	57.66	62.2	115	124	8	35 - 166	37 - 171	20	Q5
Bromomethane	50	39.63	79	50	0.00	39.79	41.39	80	83	4	34 - 158	34 - 155	20	Q5
2-Butanone (MEK)	50	38.05	76	50	0.00	42.92	44.33	86	89	3	32 - 183	20 - 205	20	M11,Q5
Carbon disulfide	50	38.06	76	50	0.00	35.04	34.22	70	68	2	31 - 128	28 - 130	20	Q5
Carbon tetrachloride	50	50.58	101	50	0.00	49.91	49.94	100	100	0	54 - 144	48 - 146	20	Q5
Chlorobenzene	50	56.54	113	50	0.00	56.73	57.53	114	115	1	70 - 127	67 - 129	20	Q5
Chloroethane	50	45.57	91	50	0.00	38.36	39.83	77	80	4	17 - 195	12 - 192	20	Q5
Chloroform	50	48.34	97	50	0.00	48.16	49.26	96	99	2	73 - 134	66 - 143	20	Q5
Chloromethane	50	46.82	94	50	0.00	45.33	45.08	91	90	1	17 - 153	14 - 155	20	Q5
Chloroprene	50	46.94	94	50	0.00	45.91	46.53	92	93	1	55 - 137	50 - 134	20	Q5
1,2-Dibromo-3-chloropropa	50	65.32	131	50	0.00	72.59	80.93	145	162	11	21 - 160	23 - 166	20	Q5
Dibromochloromethane	50	61.1	122	50	0.00	62.78	64.46	126	129	3	49 - 146	50 - 150	20	Q5
1,2-Dibromoethane (EDB)	50	60.67	121	50	0.00	64.89	65.5	130	131	1	52 - 161	55 - 166	20	Q5
Dibromomethane	50	54.88	110	50	0.00	60.27	60.04	121	120	0	56 - 145	58 - 153	20	Q5
trans-1,4-Dichloro-2-butene	100	134	134	100	0.00	143.4	148.7	143	149	4	21 - 157	23 - 163	20	Q5
1,1-Dichloroethane	50	48.48	97	50	0.00	48.15	49.17	96	98	2	63 - 129	59 - 133	20	Q5
1,2-Dichloroethane	50	51.13	102	50	0.00	55.46	55.49	111	111	0	57 - 148	56 - 154	20	Q5
1,1-Dichloroethene	50	40.72	81	50	0.00	37.72	36.75	75	74	3	51 - 139	44 - 146	20	Q5
trans-1,2-Dichloroethene	50	42.89	86	50	0.00	41.75	43	84	86	3	60 - 129	57 - 132	20	Q5
1,2-Dichloropropane	50	53.85	108	50	0.00	55.39	55.36	111	111	0	66 - 128	62 - 135	20	Q5
cis-1,3-Dichloropropene	50	63.32	127	50	0.00	64.33	64.57	129	129	0	72 - 138	70 - 139	20	Q5
trans-1,3-Dichloropropene	50	69.4	139	50	0.00	69.6	71.28	139	143	2	59 - 149	59 - 154	20	Q5
1,4-Dioxane (p-Dioxane)	1050	1226	117	1050	0.00	1434	1523	137	145	6	17 - 200	15 - 221	20	Q5
Ethylbenzene	50	57.61	115	50	0.00	56.3	55.89	113	112	1	66 - 126	57 - 135	20	Q5
Ethyl methacrylate	100	131.2	131	100	0.00	134.1	140.2	134	140	4	35 - 168	37 - 177	20	Q5
2-Hexanone	50	56.27	113	50	0.00	60.81	64.36	122	129	6	36 - 170	25 - 189	20	Q5
Iodomethane	50	37.75	76	50	0.00	37.1	36.35	74	73	2	47 - 135	46 - 138	20	Q5
Isobutanol	1050	1015	97	1050	0.00	1059	1183	101	113	11	32 - 173	26 - 188	20	Q5
Methacrylonitrile	550	577.7	105	550	0.00	656.8	694.6	119	126	6	25 - 172	26 - 186	20	Q5

*** denotes recovery outside of QC limits.**

4/10/2008 12:26:42

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

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Phone: 504.469.0333
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LELAP # 02006

Method: EPA 8260 **Project:** 2080121 **LCS:** 20598789 27-Mar-08 21:34

Batch: 99681 **MS:** 20598790 28-Mar-08 1:13

MSD: 20598791 28-Mar-08 1:33

Units: ug/L **Original for MS:** 20598757 Project Sample

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Methylene chloride	50	47.99	96	50	0.00	45.36	46.86	91	94	3	46 - 168	45 - 166	20	\11,Q5
Methyl methacrylate	100	114.3	114	100	0.00	119.3	128.5	119	129	7	33 - 170	37 - 180	20	Q5
4-Methyl-2-pentanone (MI	50	60.13	120	50	0.00	61.95	69.91	124	140	12	26 - 171	23 - 184	20	Q5
Propionitrile	550	575.8	105	550	0.00	666.6	737.2	121	134	10	14 - 183	15 - 199	20	Q5
Styrene	50	67.11	134 *	50	0.00	56.78	56.69	114	113	0	72 - 133	58 - 144	20	)10,Q5
1,1,1,2-Tetrachloroethane	50	59.87	120	50	0.00	59.47	59.7	119	119	0	66 - 134	66 - 136	20	Q5
1,1,2,2-Tetrachloroethane	50	55.03	110	50	0.00	57.95	62.09	116	124	7	15 - 179	15 - 187	20	Q5
Tetrachloroethene	50	56.91	114	50	0.00	52.3	52.5	105	105	0	46 - 157	48 - 143	20	Q5
Toluene	50	56.44	113	50	0.00	55.72	53.49	111	107	4	69 - 126	59 - 136	20	Q5
1,1,1-Trichloroethane	50	46.9	94	50	0.00	45.49	46.25	91	93	2	62 - 131	54 - 137	20	Q5
1,1,2-Trichloroethane	50	54.69	109	50	0.00	58.6	58.27	117	117	1	58 - 144	59 - 148	20	Q5
Trichloroethene	50	53.82	108	50	0.00	54.58	52.86	109	106	3	67 - 132	58 - 140	20	Q5
Trichlorofluoromethane	50	55.94	112	50	0.00	44.1	44.5	88	89	1	39 - 171	24 - 175	20	Q5
1,2,3-Trichloropropane	50	59.4	119	50	0.00	62.7	64.51	125	129	3	13 - 187	14 - 199	20	Q5
1,2,4-Trimethylbenzene	50	61.57	123	50	0.00	59.71	57.38	119	115	4	58 - 134	49 - 140	20	Q5
1,3,5-Trimethylbenzene	50	61.58	123	50	0.00	60.36	58.15	121	116	4	56 - 134	40 - 147	20	Q5
Vinyl acetate	50	51	102	50	0.00	42.85	45.19	86	90	5	22 - 191	18 - 198	20	Q5
Vinyl chloride	50	39.61	79	50	0.00	37.39	37.65	75	75	1	27 - 149	21 - 150	20	Q5
m&p-Xylene	100	118.6	119	100	0.00	115.9	115.7	116	116	0	65 - 129	56 - 136	20	Q5
o-Xylene	50	61.56	123	50	0.00	60.36	60.29	121	121	0	65 - 124	57 - 133	20	Q5

56 compound(s) reported

*** denotes recovery outside of QC limits.**

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

4/10/2008 12:26:42

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Phone: 504.469.0333
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LELAP # 02006

Method: EPA 8260 **Project:** 2080121 **LCS:** 20599215 28-Mar-08 14:04

Batch: 99681 **MS:**

MSD:

Units: ug/L **Original for MS:**

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Acetone	50	69.91	140								22 - 165	-		A11,Q5
Acetonitrile	550	855	155								15 - 171	-		Q5
Acrolein	100	43.63	44								10 - 131	-		Q5
Acrylonitrile	150	146.3	98								18 - 149	-		Q5
Allyl chloride	100	88.17	88								52 - 127	-		Q5
Benzene	50	44.27	89								62 - 131	-		Q5
Bromodichloromethane	50	61.05	122								69 - 132	-		Q5
Bromoform	50	57.26	115								35 - 166	-		Q5
Bromomethane	50	39.23	79								34 - 158	-		Q5
2-Butanone (MEK)	50	40.43	81								32 - 183	-		A11,Q5
Carbon disulfide	50	38.35	77								31 - 128	-		Q5
Carbon tetrachloride	50	51.59	103								54 - 144	-		Q5
Chlorobenzene	50	55.7	111								70 - 127	-		Q5
Chloroethane	50	49.77	100								17 - 195	-		Q5
Chloroform	50	48.5	97								73 - 134	-		Q5
Chloromethane	50	47.06	94								17 - 153	-		Q5
Chloroprene	50	47.39	95								55 - 137	-		Q5
1,2-Dibromo-3-chloropropa	50	73.87	148								21 - 160	-		Q5
Dibromochloromethane	50	60	120								49 - 146	-		Q5
1,2-Dibromoethane (EDB)	50	65.17	130								52 - 161	-		Q5
Dibromomethane	50	57.71	115								56 - 145	-		Q5
trans-1,4-Dichloro-2-butene	100	141.3	141								21 - 157	-		Q5
1,1-Dichloroethane	50	48.68	97								63 - 129	-		Q5
1,2-Dichloroethane	50	52.5	105								57 - 148	-		Q5
1,1-Dichloroethene	50	41.44	83								51 - 139	-		Q5
trans-1,2-Dichloroethene	50	42.87	86								60 - 129	-		Q5
1,2-Dichloropropane	50	54.04	108								66 - 128	-		Q5
cis-1,3-Dichloropropene	50	66.3	133								72 - 138	-		Q5
trans-1,3-Dichloropropene	50	73	146								59 - 149	-		Q5
1,4-Dioxane (p-Dioxane)	1050	1273	121								17 - 200	-		Q5
Ethylbenzene	50	56.19	112								66 - 126	-		Q5
Ethyl methacrylate	100	140.2	140								35 - 168	-		Q5
2-Hexanone	50	61.07	122								36 - 170	-		Q5
Iodomethane	50	37.56	75								47 - 135	-		Q5
Isobutanol	1050	1080	103								32 - 173	-		Q5
Methacrylonitrile	550	627.3	114								25 - 172	-		Q5

*** denotes recovery outside of QC limits.**

4/10/2008 12:26:42

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Method: EPA 8260 **Project:** 2080121 **LCS:** 20599215 28-Mar-08 14:04

Batch: 99681 **MS:**

MSD:

Units: ug/L **Original for MS:**

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Methylene chloride	50	46.07	92								46 - 168	-		A11,Q5
Methyl methacrylate	100	121.9	122								33 - 170	-		Q5
4-Methyl-2-pentanone (MI	50	62.28	125								26 - 171	-		Q5
Propionitrile	550	625.8	114								14 - 183	-		Q5
Styrene	50	66	132								72 - 133	-		Q5
1,1,1,2-Tetrachloroethane	50	57.46	115								66 - 134	-		Q5
1,1,2,2-Tetrachloroethane	50	58.17	116								15 - 179	-		Q5
Tetrachloroethene	50	55.27	111								46 - 157	-		Q5
Toluene	50	57.17	114								69 - 126	-		Q5
1,1,1-Trichloroethane	50	48.13	96								62 - 131	-		Q5
1,1,2-Trichloroethane	50	57.14	114								58 - 144	-		Q5
Trichloroethene	50	57.05	114								67 - 132	-		Q5
Trichlorofluoromethane	50	65.41	131								39 - 171	-		Q5
1,2,3-Trichloropropane	50	61.33	123								13 - 187	-		Q5
1,2,4-Trimethylbenzene	50	60.4	121								58 - 134	-		Q5
1,3,5-Trimethylbenzene	50	60.66	121								56 - 134	-		Q5
Vinyl acetate	50	52.14	104								22 - 191	-		Q5
Vinyl chloride	50	40.44	81								27 - 149	-		Q5
m&p-Xylene	100	119.9	120								65 - 129	-		Q5
o-Xylene	50	60.52	121								65 - 124	-		Q5

56 compound(s) reported

*** denotes recovery outside of QC limits.**

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

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Phone: 504.469.0333
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LELAP # 02006

Method: EPA 8270 **Project:** 2080121 **LCS:** 20598850 08-Apr-08 12:38

Batch: 99692 **MS:** 20598851 08-Apr-08 17:23

MSD: 20598852 08-Apr-08 17:49

Units: ug/L **Original for MS:** 20598757 Project Sample

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
bis(2-Ethylhexyl)phthalate	50	50.94	102	50	0.00	49.32	51.15	99	102	4	49 - 132	18 - 128	20	A25
4-Nitrophenol	50	38.28	77	50	0.00	40.52	40.67	81	81	0	35 - 133	10 - 162	35	
Pentachlorophenol	50	29.05	58	50	0.00	31.58	34.71	63	69	9	38 - 135	24 - 169	38	

3 compound(s) reported

*** denotes recovery outside of QC limits.**

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

4/10/2008 12:26:42

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LELAP # 02006

Batch: 99681 **Project:** 2080121

Lab ID	Sample ID	Qu	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20598788	99681 BLANK 1		106	91	103					
20599214	99681 BLANK 2		106	90	104					
20598789	99681 LCS 1		101	81	102					
20599215	99681 LCS 2		100	81	105					
20598756	DUP-02		104	84	100					
20598773	FB-02		101	83	99					
20598770	MW-10C	D1	100	82	99					
20598759	MW-11		100	85	101					
20598771	MW-18B	D1	100	78	102					
20598757	MW-4		102	86	100					
20598790	MW-4MS 1		101	81	102					
20598791	MW-4MSD 1		99	83	99					
20598750	PZ-21A		101	83	98					
20598751	PZ-22B	D6	101	93	101					
20598752	PZ-23B		105	84	100					
20598753	PZ-25B		103	85	100					
20598754	PZ-26A		102	83	99					
20598772	RINSATE-02		100	82	99					
20598775	TB-03		103	84	99					
	QC limits:		66-141	72-126	78-119					

Sur 1: 4-Bromofluorobenzene (S)
Sur 2: Dibromofluoromethane (S)
Sur 3: Toluene-d8 (S)

*** denotes surrogate recovery outside of QC limits.**
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.

4/10/2008 12:26:43

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LELAP # 02006

Batch: 99692 **Project:** 2080121

Lab ID	Sample ID	Qu	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20598849	99692 BLANK 1		79	84	81	83	90	106		
20598850	99692 LCS 1		99	85	81	82	90	103		
20598756	DUP-02		89	87	77	83	88	98		
20598770	MW-10C	D1	0 D	0 D	0 D	0 D	0 D	0 D		
20598759	MW-11		87	84	76	77	84	98		
20598771	MW-18B		91	78	67	72	78	57		
20598757	MW-4		68	68	60	63	65	76		
20598851	MW-4MS 1		91	89	77	82	89	102		
20598852	MW-4MSD 1		95	90	80	82	92	104		
20598750	PZ-21A		88	84	81	78	86	100		
20598751	PZ-22B		98	77	78	78	92	97		
20598752	PZ-23B		63	70	60	67	66	83		
20598753	PZ-25B		89	81	71	76	81	101		
20598754	PZ-26A		86	83	75	81	84	98		
20598772	RINSATE-02		78	87	77	77	85	98		
	QC limits:		25-145	34-117	10-118	33-120	15-134	24-133		

Sur 1: 2,4,6-Tribromophenol (S)
Sur 2: 2-Fluorobiphenyl (S)
Sur 3: 2-Fluorophenol (S)
Sur 4: Nitrobenzene-d5 (S)
Sur 5: Phenol-d5 (S)
Sur 6: Terphenyl-d14 (S)

*** denotes surrogate recovery outside of QC limits.**
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.

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Phone: 504.469.0333
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LELAP # 02006

Blank ID: 99681 BLANK 1 **Project:** 2080121

Lab ID: 20598788

Description: 8260 VOAs Full List Water BLK **Prep Level:** Water **Batch:** 99681

Method: Water EPA 8260

Prepared: 27-Mar-08 **Analyzed:** 27-Mar-08 21:14

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL
67-64-1	Acetone	1	A11	ND	10.0	5.90
75-05-8	Acetonitrile	1		ND	100.	12.5
107-02-8	Acrolein	1		ND	20.0	9.10
107-13-1	Acrylonitrile	1		ND	20.0	4.90
107-05-1	Allyl chloride	1		ND	10.0	1.56
71-43-2	Benzene	1		ND	5.00	0.117
75-27-4	Bromodichloromethane	1		ND	5.00	0.206
75-25-2	Bromoform	1		ND	5.00	0.259
74-83-9	Bromomethane	1		ND	5.00	1.94
78-93-3	2-Butanone (MEK)	1	A11	ND	10.0	2.25
75-15-0	Carbon disulfide	1		ND	5.00	0.257
56-23-5	Carbon tetrachloride	1		ND	5.00	0.592
108-90-7	Chlorobenzene	1		ND	5.00	0.119
75-00-3	Chloroethane	1		ND	5.00	0.647
67-66-3	Chloroform	1		ND	5.00	0.479
74-87-3	Chloromethane	1		ND	5.00	0.305
126-99-8	Chloroprene	1		ND	5.00	0.784
96-12-8	1,2-Dibromo-3-chloropropane	1		ND	5.00	1.22
124-48-1	Dibromochloromethane	1		ND	5.00	0.145
106-93-4	1,2-Dibromoethane (EDB)	1		ND	5.00	0.669
74-95-3	Dibromomethane	1		ND	5.00	1.39
110-57-6	trans-1,4-Dichloro-2-butene	1		ND	5.00	1.86
75-71-8	Dichlorodifluoromethane	1		ND	5.00	0.818
75-34-3	1,1-Dichloroethane	1		ND	5.00	0.515
107-06-2	1,2-Dichloroethane	1		ND	5.00	0.212
75-35-4	1,1-Dichloroethene	1		ND	5.00	0.493
156-60-5	trans-1,2-Dichloroethene	1		ND	5.00	0.733
78-87-5	1,2-Dichloropropane	1		ND	5.00	0.328
10061-01-5	cis-1,3-Dichloropropene	1		ND	5.00	0.0869
10061-02-6	trans-1,3-Dichloropropene	1		ND	5.00	0.216

4/10/2008 12:26:44

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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LELAP # 02006

Blank ID: 99681 BLANK 1 **Project:** 2080121

Lab ID: 20598788

Description: 8260 VOAs Full List Water BLK **Prep Level:** Water **Batch:** 99681

Method: Water EPA 8260

Prepared: 27-Mar-08 **Analyzed:** 27-Mar-08 21:14

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL
123-91-1	1,4-Dioxane (p-Dioxane)	1		ND	250.	16.8
100-41-4	Ethylbenzene	1		ND	5.00	0.119
97-63-2	Ethyl methacrylate	1		ND	10.0	0.475
591-78-6	2-Hexanone	1		ND	10.0	0.468
74-88-4	Iodomethane	1		ND	5.00	0.621
78-83-1	Isobutanol	1		ND	250.	18.7
126-98-7	Methacrylonitrile	1		ND	100.	16.2
75-09-2	Methylene chloride	1	A11	ND	5.00	0.710
80-62-6	Methyl methacrylate	1		ND	10.0	0.997
108-10-1	4-Methyl-2-pentanone (MIBK)	1		ND	10.0	0.872
107-12-0	Propionitrile	1		ND	20.0	6.35
100-42-5	Styrene	1		ND	5.00	0.0763
630-20-6	1,1,1,2-Tetrachloroethane	1		ND	5.00	0.291
79-34-5	1,1,2,2-Tetrachloroethane	1		ND	5.00	0.238
127-18-4	Tetrachloroethene	1		ND	5.00	0.162
108-88-3	Toluene	1		ND	5.00	0.131
71-55-6	1,1,1-Trichloroethane	1		ND	5.00	0.609
79-00-5	1,1,2-Trichloroethane	1		ND	5.00	0.328
79-01-6	Trichloroethene	1		ND	5.00	0.168
75-69-4	Trichlorofluoromethane	1		ND	5.00	1.57
96-18-4	1,2,3-Trichloropropane	1		ND	5.00	1.49
95-63-6	1,2,4-Trimethylbenzene	1		ND	5.00	0.0844
108-67-8	1,3,5-Trimethylbenzene	1		ND	5.00	0.0614
108-05-4	Vinyl acetate	1		ND	10.0	0.686
75-01-4	Vinyl chloride	1		ND	5.00	0.463
	m&p-Xylene	1		ND	10.0	0.151
95-47-6	o-Xylene	1		ND	5.00	0.142

57 compound(s) reported

4/10/2008 12:26:44

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LELAP # 02006

Blank ID: 99681 BLANK 2 **Project:** 2080121

Lab ID: 20599214

Description: 8260 VOAs Full List Water BLK **Prep Level:** Water **Batch:** 99681

Method: Water EPA 8260

Prepared: 28-Mar-08 **Analyzed:** 28-Mar-08 13:44

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL
67-64-1	Acetone	1	A11	ND	10.0	5.90
75-05-8	Acetonitrile	1		ND	100.	12.5
107-02-8	Acrolein	1		ND	20.0	9.10
107-13-1	Acrylonitrile	1		ND	20.0	4.90
107-05-1	Allyl chloride	1		ND	10.0	1.56
71-43-2	Benzene	1		ND	5.00	0.117
75-27-4	Bromodichloromethane	1		ND	5.00	0.206
75-25-2	Bromoform	1		ND	5.00	0.259
74-83-9	Bromomethane	1		ND	5.00	1.94
78-93-3	2-Butanone (MEK)	1	A11	ND	10.0	2.25
75-15-0	Carbon disulfide	1		ND	5.00	0.257
56-23-5	Carbon tetrachloride	1		ND	5.00	0.592
108-90-7	Chlorobenzene	1		ND	5.00	0.119
75-00-3	Chloroethane	1		ND	5.00	0.647
67-66-3	Chloroform	1		ND	5.00	0.479
74-87-3	Chloromethane	1		ND	5.00	0.305
126-99-8	Chloroprene	1		ND	5.00	0.784
96-12-8	1,2-Dibromo-3-chloropropane	1		ND	5.00	1.22
124-48-1	Dibromochloromethane	1		ND	5.00	0.145
106-93-4	1,2-Dibromoethane (EDB)	1		ND	5.00	0.669
74-95-3	Dibromomethane	1		ND	5.00	1.39
110-57-6	trans-1,4-Dichloro-2-butene	1		ND	5.00	1.86
75-71-8	Dichlorodifluoromethane	1		ND	5.00	0.818
75-34-3	1,1-Dichloroethane	1		ND	5.00	0.515
107-06-2	1,2-Dichloroethane	1		ND	5.00	0.212
75-35-4	1,1-Dichloroethene	1		ND	5.00	0.493
156-60-5	trans-1,2-Dichloroethene	1		ND	5.00	0.733
78-87-5	1,2-Dichloropropane	1		ND	5.00	0.328
10061-01-5	cis-1,3-Dichloropropene	1		ND	5.00	0.0869
10061-02-6	trans-1,3-Dichloropropene	1		ND	5.00	0.216

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LELAP # 02006

Blank ID: 99681 BLANK 2 **Project:** 2080121

Lab ID: 20599214

Description: 8260 VOAs Full List Water BLK **Prep Level:** Water **Batch:** 99681

Method: Water EPA 8260

Prepared: 28-Mar-08 **Analyzed:** 28-Mar-08 13:44

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL
123-91-1	1,4-Dioxane (p-Dioxane)	1		ND	250.	16.8
100-41-4	Ethylbenzene	1		ND	5.00	0.119
97-63-2	Ethyl methacrylate	1		ND	10.0	0.475
591-78-6	2-Hexanone	1		ND	10.0	0.468
74-88-4	Iodomethane	1		ND	5.00	0.621
78-83-1	Isobutanol	1		ND	250.	18.7
126-98-7	Methacrylonitrile	1		ND	100.	16.2
75-09-2	Methylene chloride	1	A11	ND	5.00	0.710
80-62-6	Methyl methacrylate	1		ND	10.0	0.997
108-10-1	4-Methyl-2-pentanone (MIBK)	1		ND	10.0	0.872
107-12-0	Propionitrile	1		ND	20.0	6.35
100-42-5	Styrene	1		ND	5.00	0.0763
630-20-6	1,1,1,2-Tetrachloroethane	1		ND	5.00	0.291
79-34-5	1,1,2,2-Tetrachloroethane	1		ND	5.00	0.238
127-18-4	Tetrachloroethene	1		ND	5.00	0.162
108-88-3	Toluene	1		ND	5.00	0.131
71-55-6	1,1,1-Trichloroethane	1		ND	5.00	0.609
79-00-5	1,1,2-Trichloroethane	1		ND	5.00	0.328
79-01-6	Trichloroethene	1		ND	5.00	0.168
75-69-4	Trichlorofluoromethane	1		ND	5.00	1.57
96-18-4	1,2,3-Trichloropropane	1		ND	5.00	1.49
95-63-6	1,2,4-Trimethylbenzene	1		ND	5.00	0.0844
108-67-8	1,3,5-Trimethylbenzene	1		ND	5.00	0.0614
108-05-4	Vinyl acetate	1		ND	10.0	0.686
75-01-4	Vinyl chloride	1		ND	5.00	0.463
	m&p-Xylene	1		ND	10.0	0.151
95-47-6	o-Xylene	1		ND	5.00	0.142

57 compound(s) reported

4/10/2008 12:26:44

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MDL denotes method detection limit

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Phone: 504.469.0333
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LELAP # 02006

Blank ID: 99692 BLANK 1 **Project:** 2080121

Lab ID: 20598849

Description: 8270 SVOAs Water **Prep Level:** Water **Batch:** 99692

Method: Water EPA 8270

Prepared: 27-Mar-08 **Analyzed:** 08-Apr-08 12:12

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL
98-86-2	Acetophenone	1		ND	10.0	1.42
1912-24-9	Atrazine	1		ND	10.0	
21725-46-2	Cyanazine	1		ND	10.0	
88-85-7	Dinoseb	1		ND	10.0	1.20
117-81-7	bis(2-Ethylhexyl)phthalate	1	A25	ND	10.0	8.62
100-02-7	4-Nitrophenol	1		ND	10.0	1.33
87-86-5	Pentachlorophenol	1		ND	10.0	1.37

7 compound(s) reported

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MDL denotes method detection limit

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Surrogate Recovery

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1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Batch: 99845 **Project:** 2080121

Lab ID	Sample ID	Qu	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20599420	99845 BLANK 1		0 *	70	49	36				
20599421	99845 LCS 1		0 *	68	44	34				
20598756	DUP-02		0 *	83	56	58				
20598770	MW-10C		0 *	73	36	56				
20598759	MW-11		0 *	74	56	33				
20598771	MW-18B		0 *	75	54	50				
20598757	MW-4		0 *	82	58	56				
20599422	MW-4MS 1		0 *	82	60	55				
20599423	MW-4MSD 1		0 *	79	55	38				
20598750	PZ-21A		0 *	68	61	56				
20598751	PZ-22B	G1	0 *	61	109	247 *				
20598752	PZ-23B		0 *	79	60	64				
20598753	PZ-25B		0 *	70	60	59				
20598754	PZ-26A		0 *	68	59	67				
20598772	RINSATE-02		0 *	72	60	52				
	QC limits:		10-137	10-144	18-119	18-122				

Sur 1: Decachlorobiphenyl (Conf)(S)
Sur 2: Decachlorobiphenyl (S)
Sur 3: Tetrachloro-m-xylene (Conf)(S)
Sur 4: Tetrachloro-m-xylene (S)

4/10/2008 12:26:45

*** denotes surrogate recovery outside of QC limits.**
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.

Louisiana Dept. of Environmental Quality (LELAP) - 02006
Louisiana Dept. of Health and Hospitals / Drinking Water - LA050004
Arkansas Dept. of Environmental Quality - LA050004
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environmental - E-10266
Pennsylvania DEP (NELAC) 68-04202
U.S. Dept. of Agricultural Foreign Soil Permit - S-47270

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New Orleans Laboratory

Organics Method Blank

Pace Analytical Services, Inc.
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St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Blank ID: 99845 BLANK 1 **Project:** 2080121

Lab ID: 20599420

Description: 8081 Pests Water **Prep Level:** Water **Batch:** 99845

Method: Water EPA 8081

Prepared: 31-Mar-08 **Analyzed:** 09-Apr-08 18:35

Units: ug/L

CAS Number	Analyte	Dilution	Qu	Result	Reporting Limit	MDL
8001-35-2	Toxaphene	1		ND	2.00	2.00

1 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

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Qualifier Summary

Pace Analytical Services, Inc.
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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2080121

Qualifier	Qualifier Description
A11	This analyte is a common solvent. Its presence in field samples may be an artifact of sample collection, transport, laboratory storage or analysis.
A25	This analyte is a common plasticizer. Its presence in field samples may be an artifact of sample collection, transport, laboratory storage or analysis.
D1	The analysis was performed at a dilution due to the high analyte concentration.
D6	The sample was analyzed at a dilution based upon the screening information.
G1	Interferences are present which caused poor surrogate recovery.
J	This estimated value for the analyte is below the adjusted reporting limit but above the instrument reporting limit.
Q10	The spike recovery was above the laboratory QC limits, however, the data are reported without qualification since the target analyte was not detected in the corresponding samples.
Q5	Insufficient sample was provided to perform matrix spike analyses on any sample in this analytical batch. Method performance for this analyte has been demonstrated by the laboratory control sample recovery.

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Arkansas Dept. of Environmental Quality - LA050004
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environmental - E-10266
Pennsylvania DEP (NELAC) 68-04202
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ARCADIS

Laboratory Task Order No./P.O. No. _____ **CHAIN-OF-CUSTODY RECORD** Page 1 of 1

Project Number/Name LA002656, 13 / MS Bluffs

Project Location Vicksburg, MS

Laboratory PACE

Project Manager David Escudé

Sampler(s)/Affiliation K. Montgomery / G. Cook (ARCADIS)

2080121

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	VOC 40 ml glass vials	SVOC + Pigments 1 L amber glass	Organo-Chlorine 500 ml amber glass	T. Metals (Cations) 250 ml plastic	D. Metals (Cations) 250 ml plastic		Remarks	Total
				HCl preserved	HCl preserved	4°C preserved	HNO3 preserved	HNO3 preserved	4°C		
PZ-21A	L	3/24/08 0936		3	2	2	1	1		20598	9
PZ-22B	L	1111		3	2	2	1	1		751	9
PZ-23B	L	1346		3	2	2	1	1		752	9
PZ-25B	L	1545		3	2	2	1	1		753	9
PZ-26A	L	1715		3	2	2	1	1		754	9
DUP-02	L	—		3	2	2	1	1		756	9
TB-03	L	3/24/08		2	—	—	—	—		755 ~~757~~	2
MW-4 (1)	L	3/25/08 0812		9 ~~3~~ (Spiked)	6	6	3	3	751	(1) Includes MS/MSD aliquots	27
MW-11	L	1106		3	2	2	1	1		759	9
MW-10C	L	1316		3	2	2	1	1		770	9
MW-18B	L	1447		3	2	2	1	1		771	9
FB02	L	1500		3	—	—	—	—		773	3
Rinsate-02	L	1510		3	2	2	1	1		772	9
MW-17B	L	1614		—	—	—	1	1		774	2

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers 124

						Seal Intact?
Relinquished by: [signature]	Organization: Arcadis	Date 3/25/08	Time 1700			
Received by: [signature] FedEx	Organization: FedEx	Date 3/26/08	Time 1015			Yes No N/A
Relinquished by: FedEx	Organization:	Date 3/26/08	Time 1015			Seal Intact?
Received by: [signature]	Organization: Pace	Date 3/26/08	Time 1015			Yes No N/A

Special Instructions/Remarks: 5 coolers 2.2 – 2.6

Delivery Method: ☐ In Person ☒ Common Carrier FedExpress – Priority ☐ Lab Courier ☐ Other _____

SPECIFY SPECIFY

AG 05-12/01

2080121 20-ARCADISGM

Pace Analytical

Sample Condition

1000 Riverbend. Blvd., Suite F
St. Rose, LA 70087

Project #: 20

Courier: ☐ Pace Courier ☐ Hackbarth ☑ Fed X ☐ UPS ☐ DHL ☐ USPS ☐ Customer ☐ Other

Custody Seal on Cooler/Box Present: [see COC] **Custody Seals intact:** ☑Yes ☐No

Therometer Used:	☑ Therm Fisher IR 1 ☐ Therm Fisher IR 2

Type of Ice: Wet Blue None

Samples on ice: [see COC]

Cooler Temperature: [see COC]

Temp should be above freezing to 6°C

Date and Initials of person examining contents: LN 3/27/08

Temp must be measured from Temperature blank when present

		Comments:
Temperature Blank Present"?	☐Yes ☐No ☑N/A	1
Chain of Custody Present:	☑Yes ☐No ☐N/A	2
Chain of Custody Complete:	☑Yes ☐No ☐N/A	3
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	4
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	5
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	6
Sufficient Volume:	☑Yes ☐No ☐N/A	7
Correct Containers Used:	☑Yes ☐No ☐N/A	8
Filtered vol. Rec. for Diss. tests	☐Yes ☐No ☑N/A	9
Sample Labels match COC:	☑Yes ☐No ☐N/A	10
All containers received within manafacture's precautionary and/or expiration dates.	☑Yes ☐No ☐N/A	11
All containers needing preservation have been checked (except VOA, coliform, & O&G).	☐Yes ☐No ☑N/A	12
All containers preservation checked found to be in compliance with EPA recommendation.	☐Yes ☐No ☐N/A	13 If No, was preserative added? ☐Yes ☐No If added record lot no.: HNO3 _____ H2SO4 _____
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	14
Trip Blank Present:	☐Yes ☐No ☑N/A	16
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	17
Pace Trip Blank Lot # (if purchased): N/A		18

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

April 09, 2008

Client Services
Pace Analytical New Orleans
1000 Riverbend Blvd
Suite F
St. Rose, LA 70087

RE: Project: 2080121-ARCADIS G&M
Pace Project No.: 1070650

Dear Client Services:
Enclosed are the analytical results for sample(s) received by the laboratory on March 26, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Sylvia Hunter

Sylvia Hunter

sylvia.hunter@pacelabs.com
Project Manager

Florida (Nelap) Certification #: E87605
Illinois Certification #: 200011
Iowa Certification #: 368
Minnesota Certification #: 027-053-137
Wisconsin Certification #: 999407970

Enclosures

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(612)607-1700

SAMPLE SUMMARY

Project: 2080121-ARCADIS G&M
Pace Project No.: 1070650

Lab ID	Sample ID	Matrix	Date Collected	Date Received
20598750	**PZ-21A**	Water	03/24/08 09:36	03/26/08 10:15
20598751	**PZ-22B**	Water	03/24/08 11:11	03/26/08 10:15
20598752	**PZ-23B**	Water	03/24/08 13:46	03/26/08 10:15
20598753	**PZ-25B**	Water	03/24/08 15:45	03/26/08 10:15
20598754	**PZ-26A**	Water	03/24/08 17:15	03/26/08 10:15
20598756	**DUP-2**	Water	03/24/08 00:00	03/26/08 10:15
20598757	**MW-4**	Water	03/25/08 08:12	03/26/08 10:15
20598758	**MW-11**	Water	03/25/08 11:06	03/26/08 10:15
20598770	**MW-10C**	Water	03/25/08 13:16	03/26/08 10:15
20598771	**MW-18B**	Water	03/25/08 14:47	03/26/08 10:15
20598772	**RINSATE-02**	Water	03/25/08 15:10	03/26/08 10:15
20598774	**MW-17B**	Water	03/25/08 16:14	03/26/08 10:15

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SAMPLE ANALYTE COUNT

Project: 2080121-ARCADIS G&M
Pace Project No.: 1070650

Lab ID	Sample ID	Method	Analysts	Analytes Reported
20598750	**PZ-21A**	EPA 6020	RJS	1
		EPA 6020	RJS	1
20598751	**PZ-22B**	EPA 6020	RJS	1
		EPA 6020	RJS	1
20598752	**PZ-23B**	EPA 6020	RJS	1
		EPA 6020	RJS	1
20598753	**PZ-25B**	EPA 6020	RJS	1
		EPA 6020	RJS	1
20598754	**PZ-26A**	EPA 6020	RJS	1
		EPA 6020	RJS	1
20598756	**DUP-2**	EPA 6020	RJS	1
		EPA 6020	RJS	1
20598757	**MW-4**	EPA 6020	RJS	1
		EPA 6020	RJS	1
20598758	**MW-11**	EPA 6020	RJS	1
		EPA 6020	RJS	1
20598770	**MW-10C**	EPA 6020	RJS	1
		EPA 6020	RJS	1
20598771	**MW-18B**	EPA 6020	RJS	1
		EPA 6020	RJS	1
20598772	**RINSATE-02**	EPA 6020	RJS	1
		EPA 6020	RJS	1
20598774	**MW-17B**	EPA 6020	RJS	1
		EPA 6020	RJS	1

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ANALYTICAL RESULTS

Project: 2080121-ARCADIS G&M
Pace Project No.: 1070650

Sample: PZ-21A **Lab ID: 20598750** Collected: 03/24/08 09:36 Received: 03/26/08 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Arsenic	**0.22**	ug/L	0.20	1	04/03/08 16:20	04/04/08 12:54	7440-38-2	
6020 MET ICPMS, Lab Filtered	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Arsenic	ND	ug/L	0.20	1	04/04/08 07:56	04/07/08 11:55	7440-38-2	

Sample: PZ-22B **Lab ID: 20598751** Collected: 03/24/08 11:11 Received: 03/26/08 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Arsenic	**8.5**	ug/L	5.0	25	04/03/08 16:20	04/04/08 15:07	7440-38-2	
6020 MET ICPMS, Lab Filtered	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Arsenic	**8.3**	ug/L	2.0	10	04/04/08 07:56	04/07/08 11:59	7440-38-2	

Sample: PZ-23B **Lab ID: 20598752** Collected: 03/24/08 13:46 Received: 03/26/08 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Arsenic	**2.9**	ug/L	1.0	5	04/03/08 16:20	04/04/08 14:56	7440-38-2	
6020 MET ICPMS, Lab Filtered	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Arsenic	**6.0**	ug/L	1.0	5	04/04/08 07:56	04/04/08 17:00	7440-38-2	

Sample: PZ-25B **Lab ID: 20598753** Collected: 03/24/08 15:45 Received: 03/26/08 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Arsenic	**1.2**	ug/L	1.0	5	04/03/08 16:20	04/04/08 15:00	7440-38-2	
6020 MET ICPMS, Lab Filtered	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Arsenic	**1.6**	ug/L	1.0	5	04/04/08 07:56	04/04/08 17:04	7440-38-2	

Sample: PZ-26A **Lab ID: 20598754** Collected: 03/24/08 17:15 Received: 03/26/08 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Arsenic	**0.95**	ug/L	0.20	1	04/03/08 16:20	04/04/08 13:32	7440-38-2	

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ANALYTICAL RESULTS

Project: 2080121-ARCADIS G&M
Pace Project No.: 1070650

Sample: PZ-26A **Lab ID: 20598754** Collected: 03/24/08 17:15 Received: 03/26/08 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Lab Filtered	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Arsenic	**0.76**	ug/L	0.40	2	04/04/08 07:56	04/07/08 12:03	7440-38-2	

Sample: DUP-2 **Lab ID: 20598756** Collected: 03/24/08 00:00 Received: 03/26/08 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Arsenic	**0.97**	ug/L	0.20	1	04/03/08 16:20	04/04/08 13:36	7440-38-2	
6020 MET ICPMS, Lab Filtered	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Arsenic	ND	ug/L	1.0	5	04/04/08 07:56	04/04/08 17:20	7440-38-2	D3

Sample: MW-4 **Lab ID: 20598757** Collected: 03/25/08 08:12 Received: 03/26/08 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Arsenic	**1.4**	ug/L	0.20	1	04/03/08 16:20	04/04/08 13:40	7440-38-2	
6020 MET ICPMS, Lab Filtered	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Arsenic	**0.99**	ug/L	0.20	1	04/04/08 07:56	04/07/08 12:11	7440-38-2	

Sample: MW-11 **Lab ID: 20598758** Collected: 03/25/08 11:06 Received: 03/26/08 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Arsenic	**0.60**	ug/L	0.20	1	04/03/08 16:20	04/04/08 13:56	7440-38-2	
6020 MET ICPMS, Lab Filtered	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Arsenic	**0.63**	ug/L	0.20	1	04/04/08 07:56	04/07/08 12:15	7440-38-2	

Sample: MW-10C **Lab ID: 20598770** Collected: 03/25/08 13:16 Received: 03/26/08 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Arsenic	**0.83**	ug/L	0.20	1	04/03/08 16:20	04/04/08 14:00	7440-38-2	
6020 MET ICPMS, Lab Filtered	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Arsenic	**0.64**	ug/L	0.20	1	04/04/08 07:56	04/07/08 12:19	7440-38-2	

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ANALYTICAL RESULTS

Project: 2080121-ARCADIS G&M
Pace Project No.: 1070650

Sample: MW-18B **Lab ID: 20598771** Collected: 03/25/08 14:47 Received: 03/26/08 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Arsenic	**246**	ug/L	0.20	1	04/03/08 16:20	04/04/08 14:04	7440-38-2	
6020 MET ICPMS, Lab Filtered	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Arsenic	**284**	ug/L	1.0	5	04/04/08 07:56	04/04/08 17:57	7440-38-2	

Sample: RINSATE-02 **Lab ID: 20598772** Collected: 03/25/08 15:10 Received: 03/26/08 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Arsenic	ND	ug/L	0.20	1	04/03/08 16:20	04/04/08 14:08	7440-38-2	
6020 MET ICPMS, Lab Filtered	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Arsenic	ND	ug/L	0.20	1	04/04/08 07:56	04/07/08 12:23	7440-38-2	

Sample: MW-17B **Lab ID: 20598774** Collected: 03/25/08 16:14 Received: 03/26/08 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Arsenic	**68.6**	ug/L	0.20	1	04/03/08 16:20	04/04/08 14:34	7440-38-2	
6020 MET ICPMS, Lab Filtered	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Arsenic	**68.8**	ug/L	1.0	5	04/04/08 07:56	04/04/08 18:05	7440-38-2	

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QUALITY CONTROL DATA

Project: 2080121-ARCADIS G&M
Pace Project No.: 1070650

QC Batch: MPRP/11766 Analysis Method: EPA 6020
QC Batch Method: EPA 3020 Analysis Description: 6020 MET
Associated Lab Samples: 20598750, 20598751, 20598752, 20598753, 20598754, 20598756, 20598757, 20598758, 20598770, 20598771, 20598772, 20598774

METHOD BLANK: 460045
Associated Lab Samples: 20598750, 20598751, 20598752, 20598753, 20598754, 20598756, 20598757, 20598758, 20598770, 20598771, 20598772, 20598774

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Arsenic	ug/L	ND	0.20	

LABORATORY CONTROL SAMPLE: 460046

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	80	77.8	97	85-115	

MATRIX SPIKE SAMPLE: 460047

Parameter	Units	9216233001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	1.3	80	77.8	96	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 460048 460049

Parameter	Units	20598757 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	1.4	80	80	79.8	78.0	98	96	70-130	2	20	

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QUALITY CONTROL DATA

Project: 2080121-ARCADIS G&M
Pace Project No.: 1070650

QC Batch: MPRP/11772 Analysis Method: EPA 6020
QC Batch Method: EPA 3020 Analysis Description: 6020 MET Dissolved
Associated Lab Samples: 20598750, 20598751, 20598752, 20598753, 20598754, 20598756, 20598757, 20598758, 20598770, 20598771, 20598772, 20598774

METHOD BLANK: 460509
Associated Lab Samples: 20598750, 20598751, 20598752, 20598753, 20598754, 20598756, 20598757, 20598758, 20598770, 20598771, 20598772, 20598774

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Arsenic	ug/L	ND	0.20	

LABORATORY CONTROL SAMPLE: 460510

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	80	73.9	92	85-115	

MATRIX SPIKE SAMPLE: 460511

Parameter	Units	20598754 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	0.76	80	79.7	99	70-130	

MATRIX SPIKE SAMPLE: 460512

Parameter	Units	20598757 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	0.99	80	80.1	99	70-130	

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Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 2080121-ARCADIS G&M
Pace Project No.: 1070650

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

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Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

April 09, 2008

David Escude'
Arcadis Geraghty & Miller
10352 Plaza Americana Dr.
Baton Rouge, LA 70816

RE: Project 2080181
Project ID: LA002656.1.7.3/MS BLUFFS

Dear David Escude':

No analytical work was performed by this laboratory for this project. The project consisted entirely of service charges or subcontract work. Any subcontract reports, if applicable, are attached.

If you have any questions concerning this report, please feel free to contact me.

Sincerly,

Cindy Olavesen

Cindy Olavesen
cindy.olavesen@pacelabs.com

REPORT OF LABORATORY ANALYSIS

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ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name LA002656.1.13 / MS Bluffs

Project Location Vicksburg, MS

Laboratory PACE

Project Manager David Escudé

Sampler(s)/Affiliation K. Montgomery / G Cook / ARCADIS

2080181

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE: T. Metals (Arsenic) 250 ml plastic HNO3	D. Metals (Arsenic) 250 ml plastic HNO3 4°C					Remarks	Total
PZ-22A	L	3/26/08 0838		1	1					20599128	2
PZ-26B	L	0918		1	1					129	2
MW-9	L	1027		1	1					130	2
MW-10	L	1151		1	1					131	2

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers 8

Relinquished by: Gary Cook	Organization: ARCADIS	Date 3/27/08	Time 1300	Seal Intact?		
Received by:	Organization: Pace	Date 3/27/08	Time 1300	Yes	No	(N/A)
Relinquished by:	Organization: Pace	Date 3/27/08	Time 1425	Seal Intact?		
Received by:	Organization:	Date 3/27/08	Time 1425	Yes	No	N/A

Special Instructions/Remarks: _____

Temp 3.5°C

Delivery Method: ☐ In Person ☐ Common Carrier _____ SPECIFY ☒ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

2080181 20-ARCADISGM

Pace Analytical

Sample Condition U

1000 Riverbend. Blvd., Suite F
St. Rose, LA 70087

Courier: ☑ Pace Courier ☐ Hackbarth ☐ Fed X ☐ UPS ☐ DHL ☐ USPS ☐ Customer ☐ Other

Custody Seal on Cooler/Box Present: [see COC] **Custody Seals intact:** ☐Yes ☑No

Therometer Used: ☑Therm Fisher IR 1 ☐ Therm Fisher IR 2

Type of Ice: Wet Blue None

Samples on ice: [see COC]

Cooler Temperature: [see COC]

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 3/27/08

Temp must be measured from Temperature blank when present

		Comments:
Temperature Blank Present"?	☐Yes ☐No ☑N/A	1
Chain of Custody Present:	☑Yes ☐No ☐N/A	2
Chain of Custody Complete:	☑Yes ☐No ☐N/A	3
Chain of Custody Relinquished:	☐Yes ☑No ☐N/A	4
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	5
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	6
Sufficient Volume:	☑Yes ☐No ☐N/A	7
Correct Containers Used:	☐Yes ☑No ☐N/A	8
Filtered vol. Rec. for Diss. tests	☐Yes ☐No ☑N/A	9
Sample Labels match COC:	☑Yes ☐No ☐N/A	10
All containers received within manafacture's precautionary and/or expiration dates.	☑Yes ☐No ☐N/A	11
All containers needing preservation have been checked (except VOA, coliform, & O&G).	☐Yes ☐No ☑N/A	12
All containers preservation checked found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	13 If No, was preserative added? ☐Yes ☐No If added record lot no.: HNO3 _____ H2SO4 _____
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	14
Trip Blank Present:	☐Yes ☐No ☑N/A	16
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	17
Pace Trip Blank Lot # (if purchased): N/A		18

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

April 08, 2008

Client Services
Pace Analytical New Orleans
1000 Riverbend Blvd
Suite F
St. Rose, LA 70087

RE: Project: 2080181 ARCADIS G&M
Pace Project No.: 1070490

Dear Client Services:
Enclosed are the analytical results for sample(s) received by the laboratory on March 27, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Sylvia Hunter

Sylvia Hunter

sylvia.hunter@pacelabs.com
Project Manager

Florida (Nelap) Certification #: E87605
Illinois Certification #: 200011
Iowa Certification #: 368
Minnesota Certification #: 027-053-137
Wisconsin Certification #: 999407970

Enclosures

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1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: 2080181 ARCADIS G&M
Pace Project No.: 1070490

Lab ID	Sample ID	Matrix	Date Collected	Date Received
20599128	**PZ-22A**	Water	03/26/08 08:38	03/27/08 14:25
20599129	**PZ-26B**	Water	03/26/08 09:18	03/27/08 14:25
20599130	**MW-9**	Water	03/26/08 10:27	03/27/08 14:25
20599131	**MW-10**	Water	03/26/08 11:51	03/27/08 14:25

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SAMPLE ANALYTE COUNT

Project: 2080181 ARCADIS G&M
Pace Project No.: 1070490

Lab ID	Sample ID	Method	Analysts	Analytes Reported
20599128	**PZ-22A**	EPA 6020	RJS	1
		EPA 6020	RJS	1
20599129	**PZ-26B**	EPA 6020	RJS	1
		EPA 6020	RJS	1
20599130	**MW-9**	EPA 6020	RJS	1
		EPA 6020	RJS	1
20599131	**MW-10**	EPA 6020	RJS	1
		EPA 6020	RJS	1

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PROJECT NARRATIVE

Project: 2080181 ARCADIS G&M
Pace Project No.: 1070490

Method: **EPA 6020**
Description: 6020 MET ICPMS
Client: PASI New Orleans
Date: April 08, 2008

General Information:
4 samples were analyzed for EPA 6020. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3020 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 2080181 ARCADIS G&M
Pace Project No.: 1070490

Method: EPA 6020
Description: 6020 MET ICPMS, Lab Filtered
Client: PASI New Orleans
Date: April 08, 2008

General Information:
4 samples were analyzed for EPA 6020. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3020 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 2080181 ARCADIS G&M
Pace Project No.: 1070490

Sample: PZ-22A **Lab ID: 20599128** Collected: 03/26/08 08:38 Received: 03/27/08 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Arsenic	**15.2**	ug/L	0.20	0.10	1	04/02/08 09:44	04/02/08 15:02	7440-38-2	
6020 MET ICPMS, Lab Filtered	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Arsenic	**10.4**	ug/L	0.20	0.10	1	04/04/08 09:55	04/04/08 16:04	7440-38-2	

Sample: PZ-26B **Lab ID: 20599129** Collected: 03/26/08 09:18 Received: 03/27/08 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Arsenic	**1.2**	ug/L	0.20	0.10	1	04/02/08 09:44	04/02/08 15:06	7440-38-2	
6020 MET ICPMS, Lab Filtered	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Arsenic	**1.4**	ug/L	0.20	0.10	1	04/04/08 09:55	04/04/08 16:20	7440-38-2	

Sample: MW-9 **Lab ID: 20599130** Collected: 03/26/08 10:27 Received: 03/27/08 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Arsenic	**1.0**	ug/L	0.20	0.10	1	04/02/08 09:44	04/02/08 15:10	7440-38-2	
6020 MET ICPMS, Lab Filtered	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Arsenic	**1.1**	ug/L	0.20	0.10	1	04/04/08 09:55	04/04/08 16:24	7440-38-2	

Sample: MW-10 **Lab ID: 20599131** Collected: 03/26/08 11:51 Received: 03/27/08 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Arsenic	**8.5**	ug/L	0.20	0.10	1	04/02/08 09:44	04/02/08 15:14	7440-38-2	
6020 MET ICPMS, Lab Filtered	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Arsenic	**2.3**	ug/L	0.20	0.10	1	04/04/08 09:55	04/04/08 16:28	7440-38-2	

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QUALITY CONTROL DATA

Project: 2080181 ARCADIS G&M
Pace Project No.: 1070490

QC Batch: MPRP/11749 Analysis Method: EPA 6020
QC Batch Method: EPA 3020 Analysis Description: 6020 MET
Associated Lab Samples: 20599128, 20599129, 20599130, 20599131

METHOD BLANK: 459017
Associated Lab Samples: 20599128, 20599129, 20599130, 20599131

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Arsenic	ug/L	ND	0.20	

LABORATORY CONTROL SAMPLE: 459018

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	80	80.9	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 459341 459342

Parameter	Units	1070370001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	ND	80	80	79.5	80.6	99	101	70-130	1	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2080181 ARCADIS G&M
Pace Project No.: 1070490

QC Batch: MPRP/11773 Analysis Method: EPA 6020
QC Batch Method: EPA 3020 Analysis Description: 6020 MET Dissolved
Associated Lab Samples: 20599128, 20599129, 20599130, 20599131

METHOD BLANK: 460531
Associated Lab Samples: 20599128, 20599129, 20599130, 20599131

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Arsenic	ug/L	ND	0.20	

LABORATORY CONTROL SAMPLE: 460532

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	80	79.7	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 460533 460534

Parameter	Units	20599128 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	10.4	80	80	96.9	95.1	108	106	70-130	2	20	

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(612)607-1700

QUALIFIERS

Project: 2080181 ARCADIS G&M
Pace Project No.: 1070490

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2080181 ARCADIS G&M
Pace Project No.: 1070490

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
20599128	**PZ-22A**	EPA 3020	MPRP/11749	EPA 6020	ICPM/4646
20599129	**PZ-26B**	EPA 3020	MPRP/11749	EPA 6020	ICPM/4646
20599130	**MW-9**	EPA 3020	MPRP/11749	EPA 6020	ICPM/4646
20599131	**MW-10**	EPA 3020	MPRP/11749	EPA 6020	ICPM/4646
20599128	**PZ-22A**	EPA 3020	MPRP/11773	EPA 6020	ICPM/4653
20599129	**PZ-26B**	EPA 3020	MPRP/11773	EPA 6020	ICPM/4653
20599130	**MW-9**	EPA 3020	MPRP/11773	EPA 6020	ICPM/4653
20599131	**MW-10**	EPA 3020	MPRP/11773	EPA 6020	ICPM/4653

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Pace Analytical

1000 Riverbend. Blvd., Suite F
St. Rose, LA 70087

Sample Condition Upon Receipt

Project #: 20 8061 81

Courier: ☑ Pace Courier ☐ Hackbarth ☐ Fed X ☐ UPS ☐ DHL ☐ USPS ☐ Customer ☐ Other

Custody Seal on Cooler/Box Present: [see COC] **Custody Seals Intact:** ☐Yes ☑No

Therometer Used: ☑Therm Fisher IR 1 ☐ Therm Fisher IR 2

Type of Ice: (Wet) Blue None Samples on ice: [see COC]

Cooler Temperature: [see COC] Temp should be above freezing to 6°C

Date and initials of person examining contents: LN 3/27/08

Temp must be measured from Temperature blank when present

					Comments:
Temperature Blank Present"?	☐Yes	☐No	☑N/A		1
Chain of Custody Present:	☑Yes	☐No	☐N/A		2
Chain of Custody Complete:	☑Yes	☐No	☐N/A		3
Chain of Custody Relinquished:	☐Yes	☐No	☐N/A		4
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A		5
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A		6
Sufficient Volume:	☑Yes	☐No	☐N/A		7
Correct Containers Used:	☐Yes	☑No	☐N/A		8
Filtered vol. Rec. for Diss. tests	☐Yes	☐No	☑N/A		9
Sample Labels match COC:	☑Yes	☐No	☐N/A		10
All containers received within manufacture's precautionary and/or expiration dates.	☐Yes	☐No	☐N/A		11
All containers needing preservation have been checked (except VOA, coliform, & O&G).	☐Yes	☐No	☑N/A		12
All containers preservation checked found to be in compliance with EPA recommendation.	☑Yes	☐No	☐N/A		13 If No, was preserative added? ☐Yes ☐No If added record lot no.: HNO3 _____ H2SO4 _____
Samples checked for dechlorination:	☐Yes	☐No	☑N/A		14
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A		14
Trip Blank Present:	☐Yes	☐No	☑N/A		16
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A		17
Pace Trip Blank Lot # (if purchased): N/A					18

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Sample Condition Upon Receipt

Pace Analytical

Client Name: Pace MO Project # 1010490

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 6724 6344 0359

[redacted]

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals Intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other _____

Thermometer Used: 230194010, 72310129 Type of Ice: (Wet) Blue None ☐ Samples on Ice, cooling process has begun

Cooler Temperature: 1.5° Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: CL 3-28-08

Temp should be above freezing to 6°C Comments:

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☑No ☐N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☑No	Initial when completed: CL Lot # of added preservative:
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: AHT **Date:** 3/31/08

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

ARCADIS

Laboratory Task Order No./P.O. No. _____ **CHAIN-OF-CUSTODY RECORD** Page 1 of 1

Project Number/Name LA002656.1.13 / MS Bluffs

Project Location Vicksburg, MS

Laboratory PACE

Project Manager David Estrada

Sampler(s)/Affiliation L. Montgomery / G. Cook / ARCADIS

2080181

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	T. Metals (Arsenic) 250 ml plastic HNO3	D. Metals (Arsenic) 250 ml plastic 4°C					Remarks	Total
PZ-22A	L	3/26/08 0838		1	1					20599128	2
PZ-26B	L	0918		1	1					129	2
MW-9	L	1027		1	1					130	2
MW-10	L	1151		1	1					131	2

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers 8

Relinquished by: Gary Cook	Organization: ARCADIS	Date 3/27/08	Time 1300	Seal Intact?	
Received by:	Organization: Pace	Date 3/27/08	Time 1300	Yes No (N/A)	
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Appendix G

Groundwater Flow and Constituent Transport Modeling Report

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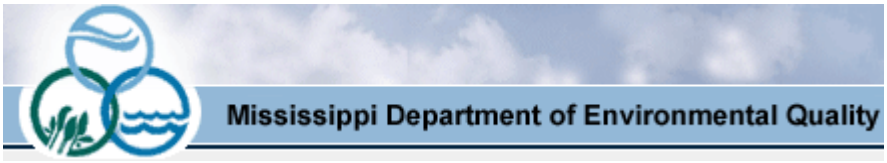

and

MISSISSIPPI BLUFFS INDUSTRIAL PARK, LLC

Groundwater Flow and Constituent Transport Modeling

Former Vicksburg Chemical Company
Vicksburg, Mississippi

July 18, 2008

ARCADIS

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Groundwater Flow and Constituent Transport Modeling

Former Vicksburg Chemical Company
Vicksburg, Mississippi

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1. Introduction

ARCADIS has been retained by Mississippi Bluffs Development, Inc. (Mississippi Bluffs), to develop a groundwater flow and constituent transport model at the former Vicksburg Chemical Company (Vicksburg Chemical) facility located in Vicksburg, Mississippi. The purpose of the groundwater flow and constituent transport model is to evaluate the fate and transport of the chemicals of concern (CoCs) in the shallow aquifer where contamination is present and to gain a better understanding of the nature and extent of chemical constituents. Additionally, the model can be used to evaluate engineering remediation alternatives and guide the decision-making in selecting the most cost-effective remedies for the site. This report also documents the conceptual groundwater model which served as a basis for the numerical groundwater flow model and solute transport models developed for this site.

F I N A L

1.1 Site Location

Vicksburg is located 234 miles northwest of New Orleans on the Mississippi and Yazoo rivers and 40 miles due west of Jackson, the state capital. The former Vicksburg Chemical site, shown in **Figure 1**, is located at 4280 Rifle Range Road in Vicksburg, Mississippi, and within the southwest section of the city of Vicksburg, Warren County, Mississippi. The site is composed of approximately 535 acres located in Sections 4, 5, 8, 9, and 10, Township 15 north, Range 3 east (Latitude: North 32° 18' 01", Longitude: West 90° 53' 57").

1.2 Site History and Background

Vicksburg Chemical was formerly a pesticide and herbicide manufacturing facility divided into two areas – North Plant and South Plant. The North Plant began operation in 1961 and produced potassium nitrate, liquid chlorine, and liquid nitrogen tetroxide. The raw materials for the North Plant included potassium chloride and nitric acid. The South Plant began operation in 1953 manufacturing chlorinated pesticides, nitrogen-based herbicides, and other agricultural chemicals. The only active operations at the South Plant after 1992 were the nitric acid unit constructed in 1986 and a potassium carbonate unit constructed in 1994. During various periods prior to 1987, the South Plant produced dinitro butyl phenol (dinoseb or DNBP), monosodium methane arsenate (MSMA), diethyl hexyl phosphoric acid (DEHPA), 1-hydroxy-ethylidene-1-1-diphosphonic acid (UNIHIB), toxaphene, methyl parathion, cyanazine (bladex), and atrazine. Toxaphene and methyl parathion are insecticides, while atrazine, dinoseb, and MSMA are herbicides. Raw materials for these operating processes included

chlorine, camphene, ortho-secondary butyl phenol (OSBP), sodium arsenate, sodium hydroxide, methyl chloride, sulfuric acid, sodium paranitrophenolate, and phosphorus trichloride.

Since Vicksburg Chemical declared bankruptcy on March 8, 2002, the site has not been regularly investigated or maintained. Presently, the former process areas in the North Plant and the South Plant are inactive. Demolition of these areas is in progress by Harcros Chemicals, Inc. (Harcros). Harcros is presently located on an approximately 12-acre portion of the North Plant with access to Rifle Range Road. Harcros currently operates as a bulk chemical distribution business. Future Harcros operations may include chemical mixing and blending operations.

Vicksburg Chemical initiated a Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) in 1994 and continued through 2001. The "RCRA Facility Investigation Draft Final Report" (RFI Report) (URS Corporation [URS] 2001a) and "Draft Groundwater Assessment Report" (URS 2001b) were completed in August 2001 and November 2001, respectively. Both reports were submitted to the U.S. Environmental Protection Agency (USEPA) and subsequently approved in December 2001. The RFI Report summarizes information contained in multiple submittals to USEPA as part of the RFI process from August 1994 to August 2001.

Previous investigative activities were conducted at the site by URS as part of the RFI process. Different areas of the plant were divided into solid waste management units (SWMUs) based on historical plant operations conducted in each area. There are 34 named SWMUs at the facility. Soil and groundwater were investigated for most SWMUs; however, some were only inspected. The monitor well network presently in place at the site was installed during the SWMU investigations.

To further the remediation efforts, ARCADIS conducted baseline site sampling at the site from January 29, 2007 to May 4, 2007. The document "Baseline Sampling Report" summarizes the previous environmental actions and general site geology and hydrogeology and presents the results of data collection activities in soil, groundwater, and storm water conducted at the site in the first half of 2007. In March 2008, a second set of groundwater samples were collected from the wells installed during the RFI. Six wells were sampled for arsenic only. Arsenic was analyzed in accordance with SW-846 Method 6020. This method is more sensitive to arsenic than Method 6010, which was used for the 2007 sampling. The information contained in the report was relied on as accurate and valid and was used in constructing and/or calibrating the groundwater flow and constituent transport models.

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1.3 Project Objectives and Scope

The general objectives for the overall modeling study, including both groundwater flow and constituent transport models, at the former Vicksburg Chemical site include the following:

- Quantify the hydraulic flow and transport characteristics of the shallow water-bearing unit;
- Estimate the effectiveness of potential remedial alternatives for the control of select target compounds (dissolved arsenic, carbon tetrachloride, chloroform, dinoseb, and trichloroethene [TCE]); and
- Provide conceptual configurations of remedial alternatives for more effective design and optimization as needed.

This modeling report describes the results of the following major components of the modeling study at the site:

- Development of a conceptual model of groundwater flow for the site based on new and historical site data as well as published information from regional hydrogeologic studies;
- Construction of the groundwater flow model;
- Calibration of the groundwater flow model to measured site conditions;
- Construction of the solute transport model;
- Evaluation of groundwater flow paths and solute transport simulations with a series of remediation options; and
- Summary and conclusions.

2. Conceptual Model

Prior to the development of a mathematical groundwater flow model, it is necessary to develop a conceptual model of subsurface conditions that summarizes important

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geologic, hydrologic, and hydraulic features of the groundwater system. The primary components of a groundwater system include: (1) areal extent, configuration, and type of aquifers and aquitards; (2) hydraulic properties of aquifers and aquitards; (3) natural groundwater recharge and discharge zones; (4) anthropogenic influence on groundwater (sources and sinks); (5) areal and vertical distribution of groundwater hydraulic head potential; and (6) contaminant distributions. These aquifer system components serve as the framework for the construction of a numerical groundwater flow model. The conceptual model will provide a framework that describes essential components required by a mathematical model. Thus, the understanding of the groundwater system developed in a conceptual model is the foundation or blueprint for a mathematical model.

The development of a conceptual model begins with a thorough review of available literature pertaining to site geology and hydrogeology. The site geology and hydrogeology have been defined primarily by these reports: Saucier (1994); URS (2001b); USGS (2001); and ARCADIS (2007). According to the geological investigation provided in these reports, the shallow groundwater aquifer is hydraulically separated from the deeper unit and constituents have only been detected in the shallow groundwater aquifer. Therefore, the discussion of the geology and hydrogeology for the site focuses on the shallow aquifer (above Byram Marl formation).

2.1 Geologic Framework

Vicksburg is situated on the boundary of two distinct geological provinces (**Figure 2**). To the west lies the Mississippi River alluvial plain, an area of low relief stretching 80 miles to Monroe, Louisiana. The alluvial plain consists of Pleistocene (Ice Age) and recent deposits of clay, silt, sand, and gravel that were laid down by the Mississippi River as it meandered across this broad floodplain. Many different depositional environments are found within the valley. To the east lie the uplands and rolling hills of the Gulf Coastal Plain that overlies sedimentary rocks and soils of Tertiary age. The Bluff Hills escarpment to the west of Vicksburg provides an abrupt transition in topography from the alluvial plain by rising 100 to 200 feet (ft) above the alluvial plain. **Figure 3** shows cross sections that illustrate the vertical sequence of two types of deposits near Vicksburg.

The Vicksburg geology contains unconsolidated sediments of Cretaceous to Quaternary age and the sediments thicken in the structural trough toward the axis of the Embayment and the Gulf of Mexico. The most conspicuous deposit from the Quaternary age in the Vicksburg area is loess, a windblown silt derived from the

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Mississippi River floodplain during glacial times. Loess of the Lower Mississippi Valley area is contiguous with an extensive blanket in the central United States and together forms one of the largest blankets in the world (Snowden and Priddy 1968). Deposits are present east of the alluvial valley as an essentially continuous 30- to 60-mile wide veneer from the Cairo area south to below Baton Rouge. It is in this area that it reaches its maximum thickness of more than 75 ft and has the most prominent outcrops. Loess is also present as a much thinner (10 ft or less) veneer in a narrow band. Red clay sand and gravel of Pliocene or Pleistocene age underlie the loess at Vicksburg. Exposures of the red clay sand occur near the base of the loess cuts along Interstate 20 just east of Vicksburg.

Five formations of Oligocene age form a narrow outcrop band that trends northeastward from the uplands northwest of Sicily Island across the alluvial valley area to the uplands in southwestern Mississippi. All formations are prominently exposed in the banks of the Mississippi River and the bluffs to the east from about 20 miles northeast of Vicksburg to several miles south of that city. Over that distance, it drops in elevation by about 100 ft and plunges steeply southward into the subsurface thereafter.

The reports “Hydrogeology, model description, and flow analysis of the Mississippi river alluvial aquifer in Northwestern Mississippi” (USGS 2001) and “Geomorphology and quaternary geologic history of the lower Mississippi valley” (Saucier 1994) provide regional geological information for the Vicksburg area, and some relevant information on the various deposits near the Vicksburg area is summarized in the following sections.

2.1.1 Loess

Loess is an unusually massive, relatively homogeneous, seemingly nonstratified, unconsolidated deposit consisting primarily of well-sorted silt (Fairbridge and Bourgeois 1978). It occurs as a blanket, composed of several discrete loess sheets, that drapes upland formations of Quaternary and Tertiary age. Loess also drapes over old topography developed on the Tertiary rocks and is over 100 ft thick at Vicksburg. This loess blanket thins rapidly to the east to less than 10 ft thick 15 miles east of Vicksburg. The high steep road cuts along Interstate 20 and the U.S. Highway 61 North Bypass are in loess. Loess is the most important geologic deposit in the Vicksburg area because almost all highway and facility construction activities occur within it.

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In an unweathered state, loess generally consists of tan, brown, or reddish brown, fossiliferous, massive, uniform, calcareous silts and silt loams. Weathered loess within several feet of the surface generally is slightly higher in clay content, darker in color, and leached and therefore noncalcareous. Thin leached zones at depth within a loess sequence denote the presence of paleosols which arise from the slowing or cessation of loess deposition, followed by a period of weathering, and then resumption of deposition. Unweathered loess has the ability to maintain vertical slopes if protected from surface runoff. This characteristic is attributable to its high vertical permeability (which reduces or eliminates water saturation), binding of silt- and larger-sized particles by thin clay and carbonate films, and an internal "skeleton" of hollow, vertically oriented, calcareous root tubules. The loess is capable of sustaining steep slopes as high as 100 ft under certain conditions. But once it has been disturbed, loess becomes highly erodible by water, forming deep gullies and pipes. Extensive new construction along the Mississippi riverfront at Vicksburg has required concerted reinforcing and stabilization efforts to prevent movement of the bluffs along a prominent failure scarp. Loess also contains relatively large numbers of dispersed calcareous nodules and irregular, spheroidal, or elongated concretions in branching masses up to 6 inches or more in length.

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2.1.2 Terrace Sand and Gravel

Underlying the loess at Vicksburg is red clay sand and gravel of Pliocene or Pleistocene age. Exposures of the red clay sand occur near the base of the loess cuts along Interstate 20 just east of Vicksburg. These fluvial terrace deposits consist of fine-grained top stratum and thick coarse-grained substratum, well-oxidized clays, silts, sands, and gravels existing as Pleistocene Substratum. Although the age or areal extent of the Pleistocene substratum is not well understood, substratum probably represents mostly glacial outwash that has been reworked repeatedly by fluvial action.

2.1.3 Bucatunna Clay

The uppermost unit that constitutes the Vicksburg Group of Oligocene age is the Bucatunna formation, which consists of hard, dark brown, carbonaceous, and lignitic clays with a few siltstone layers. The terrace sand and gravel formation mentioned above and the Bucatunna formation does not appear to be continuous or clearly distinguishable across the site. Therefore, they are not explicitly accounted for in the model.

2.1.4 Byram Marl

Underlying the Pleistocene loess is the Oligocene Vicksburg formation. This formation consists of alternating beds of sandy marl, clay marl, montmorillonitic clay and thin beds of limestone. This top of the marl varies across the site from 50 to 65 ft above mean sea level (msl), as indicated in **Figure 4**. This layer is considered as the lower boundary layer for groundwater modeling purposes.

2.1.5 Glendon Limestone

By far the most conspicuous unit of the Vicksburg Group is the Glendon Limestone. This formation is characterized by alternating thick (1 to 3 ft) layers of white to light gray, hard, sandy, abundantly fossiliferous limestones and clayey to sandy marls. The top of the Glendon limestone is expected to be 80 to 100 ft beneath the plant site and range from 25 to 65 ft thick.

2.1.6 Mint Spring Marl

The Mint Springs formation, which is of shallower-water origin, underlies the Glendon Limestone and is basically a massive bed of gray, highly fossiliferous, sandy marl with lignitic and phosphatic pebbles.

2.1.7 Forrest Hill Sand

The Forrest Hill formation is considered the oldest unit of Oligocene age. This formation is composed of irregularly interbedded, discontinuous, thin layers of clayey, lignitic silts and fine cross-bedded sands.

2.1.8 Yazoo Clay

Yazoo Clay comprises the Jackson Group of upper Eocene age in Louisiana and Mississippi and consists of massive, dark gray to brown, occasionally lignitic, and fossiliferous clays with scattered thin lenses and zones of silty clays and fine sands. The unit becomes less fossiliferous, more lignitic, and significantly sandier toward the northeast, reflecting less marine conditions toward the upper part of the embayment at the time of deposition. Below the Yazoo Clay is the thinner but distinctively different Moodys Branch formation. This unit is also fossiliferous but is a glauconitic, sandy, and clayey marl with occasional large limestone nodules.

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2.2 Hydrogeologic Framework

The Bluff Hills west of Vicksburg provides a steep increase in topography by rising 100 to 200 ft above the alluvial plain. The bluff ridges define surface water and groundwater divides. As a result, the groundwater flow system in the bluff highland is separated from the Mississippi River alluvial plain and is dictated by the local hydraulic features, such as local recharge, surface water discharge, etc.

The Pleistocene loess and fluvial deposit formation underlying the former Vicksburg Chemical site form a water-bearing unit. This unit overlies the Byram Marl. The argillaceous, massive, and medium-dense character of the marl inhibits any significant movement of water through this unit. Therefore, the marl serves as the bottom of the shallow confined aquifer. Deeper and more productive aquifers such as the Forrest Hill existing below are hydraulically separated from the shallow groundwater aquifer by the Byram Marl formation. The clayey fill material placed atop the loess inhibits the vertical migration of the groundwater.

The geologic cross sections are provided in **Figures 5-13**. From these cross sections, it can be clearly seen that the major formation on top of the relatively impermeable Byram Marl consists primarily of silt and clayey silt with discontinuous deposits of low permeable materials, such as clay, silty clay, and sandy clay. Immediately below the loess, a thin layer (1 to 2 ft) of sandy clay is present. This may indicate the presence of the fluvial deposit underlying the massive loess formation. Due to the discontinuous and heterogeneous character of the formation, the shallow unit is considered to be one hydrogeologic unit, about 40 ft thick, which consists primarily of loess formation, with discontinuous clayey contents and, to a lesser extent, sandy contents.

Groundwater beneath the former Vicksburg Chemical site generally flows southeastward, discharging to the surface water bodies including Stouts Bayou, Hatcher Bayou, and Hennesseys Bayou. Hatcher Bayou and Stouts Bayou merge southeast of the plant site to form Hennesseys Bayou, which flows to the Mississippi River. These bayous are the discharge points for the groundwater in the shallow aquifer. Stouts Bayou and Hatcher Bayou are the likely discharge of the groundwater on site. Approximate elevation for Stouts and Hennesseys bayous is 85 ft msl, as reported in URS (2001b).

Hydraulic conductivity values obtained during various investigations prior to 1993 ranged from 0.26 ft/day to 0.73 ft/day. A pumping test performed by URS in May 2001 on Monitoring Wells MW-17A and MW-17B resulted in an estimated conductivity value

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of 0.13 ft/day. In February 2007, ARCADIS performed slug tests for a series of wells and the hydraulic conductivity values, analyzed using AQTSOLV, are listed in **Table 1**.

Annual precipitation for the Vicksburg, Warren County area is approximately 53 inches. Rainfall is fairly evenly distributed throughout the year. Mean annual lake evaporation is about 44 inches; thus, the resulting net precipitation without accounting for runoff is 9 inches (MDEQ 2003).

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3. Groundwater Flow Model Construction

The primary phases in the development of a numerical groundwater flow model include the construction of a finite-difference grid for the model area, specification of model structure, assignment of boundary conditions, specification of hydraulic parameter values and zones, and selection of appropriate water-level measurements for calibration of the model. These elements form the site conceptual model, which serves as the basis for the construction and subsequent calibration of the numerical model to observed groundwater flow conditions at the site.

3.1 Code Selection and Description

The groundwater flow model was developed by translating the descriptive features of the conceptual model into their numerical or mathematical equivalents. The public domain MODFLOW (McDonald and Harbaugh 1988) code was used to simulate groundwater flow at the former Vicksburg Chemical site. MODFLOW is thoroughly documented, widely used in the consulting industry, and consistently accepted in regulatory and litigation proceedings. It has the flexibility to handle different inflow and surface water boundary (discharge) conditions found at the former Vicksburg Chemical site. In addition, ARCADIS has developed utilities for use with MODFLOW to ease in the construction and calibration of groundwater models.

MODFLOW can simulate transient or steady-state saturated groundwater flow in one, two, or three dimensions and offers a variety of boundary conditions including specified head, areal recharge, injection or extraction wells, evapotranspiration, horizontal flow barriers, drains, and rivers or streams. Aquifers simulated by MODFLOW can be confined or unconfined, or convertible between confined and unconfined conditions. For the site, which consists of a heterogeneous geologic system with variable unit thicknesses and boundary conditions, MODFLOW's three-dimensional capability and boundary condition versatility are essential for the proper simulation of groundwater flow conditions.

MODFLOW simulates transient, three-dimensional groundwater flow through porous media described by the following partial differential equation for a constant density fluid:

$$\frac{\partial}{\partial x}\left(K_{xx}\frac{\partial h}{\partial x}\right)+\frac{\partial}{\partial y}\left(K_{yy}\frac{\partial h}{\partial y}\right)+\frac{\partial}{\partial z}\left(K_{zz}\frac{\partial h}{\partial z}\right)-W=S_s\frac{\partial h}{\partial t} \qquad (3\text{-}1)$$

where

K_{xx}, K_{yy}, and K_{zz} are values of hydraulic conductivity along the x, y, and z coordinate axes, which are assumed to be parallel to the major axes of hydraulic conductivity [L/T];

h is the potentiometric head [L];

W is a volumetric flux and represents sources and/or sinks of water [1/T];

S_s is the specific storage of the porous material [1/L]; and,

t is time [T];

In Equation 3-1, the hydraulic parameters (i.e., K_{xx}, K_{yy}, K_{zz}, and S_s) may vary in space but not in time while the source/sink (W) terms may vary in both space and time.

MODFLOW uses a numerical approximation technique known as the method of finite differences to solve Equation 3-1 on a computer. Using a block-centered finite-difference approach, MODFLOW replaces the continuous system represented in Equation 3-1 by a set of discrete points in space and time. This process of discretization ultimately leads to a system of simultaneous linear algebraic equations. MODFLOW solves these finite-difference equations with one of the following three iterative solution techniques: strongly implicit procedure, slice-successive over-relaxation, or preconditioned conjugate gradients. The solution of the finite-difference equations produces time-varying values of head at each of the discrete points representing the real aquifer system. Given a sufficient number of discrete points, the simulated values of head yield close approximations of the head distributions given by exact analytical solutions to Equation 3-1.

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3.2 Model Discretization

The finite-difference technique employed in MODFLOW to simulate hydraulic head distributions in multi-aquifer systems requires horizontal and vertical discretization, or subdivision, of the continuous aquifer system into a set of discrete blocks that form a three-dimensional model grid. In the block-centered finite-difference formulation used in these codes, the center of each grid block corresponds to a computational point or node. When MODFLOW solves the set of linear algebraic finite-difference equations for the complete set of blocks, the solution yields values of hydraulic head at each node (or three-dimensional block) in the three-dimensional grid.

Water levels computed for each block represent an average water level over the volume of the block. Thus, adequate discretization (i.e., a sufficiently fine grid) is required to resolve features of interest, and yet not be computationally burdensome. MODFLOW allows the use of variable grid spacing such that a model may have a finer grid in areas of interest where greater accuracy is required and a coarser grid in areas requiring less detail.

The three-dimensional model grid developed for the site covers approximately 4 square miles (**Figure 14**). The model grid was oriented 36° west from due north. The boundaries of the model grid are specified to coincide with natural hydrogeologic boundaries such as groundwater divides, where possible, and the boundaries were set at a significant distance from the site to minimize the influence of model boundaries on simulation results at the site. **Figure 14** shows the model domain that extends from the bluff (to the west of the site) to the local highland ridges east of the site. The finite-difference grid is composed of 870 columns, 601 rows, and 2 layers for a total of 1,045,740 nodes, as shown in **Figure 15**. The model grid uses 5-ft areal grid spacing in the area of concern and grades to 100-ft spacing toward the model boundaries.

The extent of the finite-difference grid and the 5-ft areal grid spacing used at the site was selected for the purpose of simulating both regional and local groundwater flow conditions around the site. The extent chosen for the grid ensured adequate incorporation of regional groundwater flow features that affect conditions at the site. Fine discretization at the site allowed for sufficient detail to match site measurements. In addition, the fine grid cell spacing enhances the accuracy of subsequent solute transport simulations. Meeting these objectives was essential for the development of the three-dimensional groundwater flow model.

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Site-specific hydrogeologic data were used to vertically discretize the model. The Byram Marl that is located at an elevation range of 45 to 60 ft msl is an aquitard unit and will serve as the base of the model. Based on the cross sections provided in the Baseline Sampling Report (ARCADIS 2007), a two-layer model was chosen to represent the loess aquifer underlying the site. The interface separating the two vertical layers is located approximately 20 ft above the constructed marl surface. Vertical discretization allows for representation of vertical hydraulic gradients and thus vertical groundwater movement. Two model layers were used to simulate the clayey silt and silty clay units. The groundwater flow model was calibrated to recent groundwater flow conditions.

3.3 Boundary Conditions

Boundary conditions must be imposed to define the spatial boundaries of the model on the top, bottom, and all sides of the model grid. In addition to these boundary conditions, sources and sinks of groundwater such as wells and rivers can be included within the model's external boundaries. A boundary condition can represent different types of physical boundaries, depending on the rules that govern groundwater flow across the boundary. This model includes five types of boundary conditions: no-flow, recharge (constant flux), drains (head dependent flow), rivers (head dependent inflow and outflow), and constant head (head dependent flux). The location and types of boundary conditions are indicated in **Figure 16**.

The bayous in the model domain are represented by river cells or drain cells based on the U.S. Geologic Survey (USGS) West Vicksburg Quadrangle and USGS East Vicksburg Quadrangle. River cells allow for the specification of a river or pond stage and a conductance term, which regulates the amount of groundwater discharge from, or recharge to, the river or pond. The stage elevations were set based on an examination of the quadrangle maps and satellite aerial photograph. The conductance terms were calculated from the model grid cell dimensions and estimates of the hydraulic conductivity of the aquifer and streambed material (estimated value of 0.25 ft/day).

Farther away from the site, drain cells were used to identify the portion of the bayous or tributaries that have intermittent flow. Drain cells, like river cells, allow for the specification of a surface-water stage and a conductance term. However, drain cells allow groundwater to flow only into the creek from the aquifer. If the simulated water level in the aquifer is below the drain elevation, the drain becomes inactive (dry). The stage elevations of the drain cells were estimated using the quadrangle maps. As with

the river cells, the conductance terms for the drains were calculated from the grid cell dimensions and estimates of the hydraulic conductivity of the aquifer and the creek bed material (estimated value of 0.25 ft/day).

No-flow boundaries were used outside of the model grid along a topographic high, which was inferred to represent a natural groundwater flow divide. No-flow boundaries were also used to mark the limits of Layer 2.

A small portion of the model boundary on the eastern side overlaps with the bayous, which is represented by a constant head boundary condition. The water head was determined based on the quadrangle maps and satellite aerial photograph.

3.4 Hydraulic Parameters

In constructing the model for the site, representative values for model parameters were selected based on site-specific data. These model parameters included aquifer recharge and the horizontal and vertical hydraulic conductivity of the aquifer. The model was initially constructed with a uniform hydraulic conductivity and parameter values based on site aquifer test data. During the calibration of the model, hydraulic conductivity zones were added and parameter values were adjusted to minimize the difference between observed and simulated groundwater elevations.

Model Layers 1 and 2 represent the upper and lower portions of the loess aquifer, respectively, and both contain seven conductivity zones (**Figure 17**). The values of the conductivity zones were obtained from a calibration process, which is constrained by site-specific geological information (i.e., boring logs, cross sections).

Annual precipitation for the Vicksburg, Warren County area is approximately 53 inches. Rainfall is fairly evenly distributed throughout the year. Mean annual lake evaporation is about 44 inches; thus, the resulting net precipitation without accounting for runoff is 9 inches (MDEQ 2003). Because the surface runoff is considered to be significant due to the presence of the bayous, the net groundwater recharge is estimated to be 1 inch per year for January 2007and 0.8 inch per year for October 2007. When an engineered cap is simulated, recharge for the area immediately beneath the cap is assigned a value of zero.

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3.5 Calibration Targets

Calibration targets are a set of field measurements, typically groundwater elevations, used to test the ability of a model to reproduce observed conditions within a groundwater flow system. For the calibration of a steady-state (time-invariant) model, the goal in selecting calibration targets is to define a set of water-level measurements that represent the average elevation of the water table or potentiometric surface at locations throughout the model domain.

Two sets of the groundwater elevation data from January and October 2007 are used for calibration of the groundwater model. **Table 2** and **Figure 18** present the monitoring wells and water-level elevations used as calibration targets. The data from January 2007 comprise a total of 34 monitoring wells, while data from October 2007 contain 33 monitoring wells. Independent calibration was performed on both sets of data in order to obtain a reliable conductivity field that can account for the seasonal water-level variation with reasonable recharge change.

4. Groundwater Flow Model Calibration

Calibration of a groundwater flow model refers to the process of adjusting model parameters to obtain a reasonable match between observed and simulated water levels. In general, model calibration is an iterative procedure that involves adjustment of hydraulic properties or boundary conditions to achieve the best match between observed and simulated water levels. During model calibration, site-specific data and prior slug tests were used as a guide to constrain estimates of hydraulic conductivity. For simplicity, the following discussion is based on data from October 2007 unless otherwise noted. The same procedure was repeated using the data from January 2007.

4.1 Calibration Procedure

For best results, the calibration of a model should rely on discrete measurements (water levels) to produce answers free of contouring interpretations. In the calibration of a groundwater flow model, use of point data eliminates the potential for interpretive bias that may result from attempting to match a contoured potentiometric surface (Konikow 1978; Anderson and Woessner 1992). The groundwater flow model for the site was calibrated using 33 water-level calibration targets measured during October 2007 in monitoring wells distributed throughout the vicinity of the site (**Table 2** and **Figure 18**).

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As a further goal for the calibration of a model, the principle of parameter parsimony is applied to achieve an adequate calibration of the model through the use of the fewest number of model parameters. It should be noted that the use of greater numbers of model parameters during model calibration creates a situation in which many combinations of model parameter values produce similar calibration results. In this case, the model calibration parameters are called non-unique. Following the principle of parameter parsimony reduces the degree of non-uniqueness and results in more reliable calibrated parameter values. The information gathered for the conceptual model guides any decision to add model parameters (e.g., zones of hydraulic conductivity) to the model during the calibration process. Therefore, the simpler model is preferred.

ARCADIS routinely uses an automatic parameter estimation procedure to calibrate groundwater flow models. Starting with a set of initial estimates for the model parameters, the procedure systematically updates the parameter estimates to minimize the difference between simulated and observed water levels at a set of calibration targets. Compared to trial and error procedures for model calibration, automatic parameter estimation can greatly reduce the time required for model calibration and generally provide a better overall calibration. The general algorithm applied in conjunction with the MODFLOW code is known as the Gauss-Newton method and is described in greater detail by Duffield et al. (1990) and Hill (1992).

The primary criterion for evaluating the calibration of a groundwater flow model is the difference between simulated and observed water levels at a set of calibration targets. A residual or model error, e_i, is defined as the difference between the observed (h_i) and simulated ($\hat{h}_i$) hydraulic head measured at a target location:

$$e_i = h_i - \hat{h}_i \qquad (4\text{-}1)$$

The automatic parameter estimation procedure seeks to minimize an objective function defined by the residual sum of squares (RSS):

$$RSS = \sum_{i=1}^{n} \left(h_i - \hat{h}_i\right)^2 \qquad (4\text{-}2)$$

where h_i is the measured value of hydraulic head and $\hat{h}_i$ is the simulated value at a specific target location. A residual with a negative sign indicates over-prediction by the

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model (i.e., the simulated head is higher than the measured value). Conversely, a positive residual indicates under-prediction.

$$RSTD = \sqrt{\frac{RSS}{n - p}} \quad (4\text{-}3)$$

The residual standard deviation (RSTD) is useful for comparing model calibrations with different numbers of calibration targets (*n*) and estimated parameters (*p*). Another calibration measure is the mean of all residuals ($\bar{e}$):

$$\bar{e} = \frac{1}{n} \sum_{i=1}^{n} e_i \quad (4\text{-}4)$$

A mean residual significantly different from zero indicates model bias. The Gauss-Newton parameter estimation procedure produces a near zero mean residual at the minimum RSS.

The groundwater flow model calibration required numerous individual computer simulations. The values and shapes of the various parameter zones in the model were gradually varied until a reasonable solution was achieved in agreement with the conceptual model. This primary calibration was achieved using MODFLOW and parameter estimation techniques designed for use with MODFLOW.

4.2 Calibration Results

The 33 water-level targets selected were used to evaluate the model calibration by analyzing the following: 1) simulated hydraulic head distributions across the site and surrounding properties; 2) residual statistics; and 3) sensitivity of estimated hydraulic parameters.

4.2.1 Simulated Hydraulic Head Distribution

As a part of evaluating the numerical model calibration, simulated potentiometric surface maps were prepared for the entire modeled region to ensure that simulated groundwater flow patterns were reasonable. Simulated regional and local potentiometric surface maps were prepared to depict groundwater flow conditions in the site vicinity (**Figures 19-20**).

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Our site conceptual model states that the bayous are the groundwater discharge that dictates the groundwater flow direction. Examination of the water levels obtained by ARCADIS confirms this conceptual understanding. The simulated water levels and flow direction for the loess aquifer (**Figures 19-20**) are in good agreement with the observed water levels and flow directions. Furthermore, the model shows that the general vertical movement is from the upper layer to the lower layer (downward hydraulic gradient) and upward hydraulic gradient occurs near the surface water discharge areas (bayous).

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4.2.2 Analysis of Residuals

The groundwater flow model calibration sought to minimize the residual sum of squares (Equation 4-2) computed for the 33 water-level calibration targets. **Table 3** lists the simulated water-level elevations and model residuals for each of the calibration targets. The local maps of simulated hydraulic heads (**Figures 19-20**) show the spatial distribution of the residuals across the site. Overall, the model shows a good match to the measured water levels at the site.

Residual statistics for the calibrated groundwater flow model also indicate good agreement between simulated and measured groundwater elevations (**Figures 19-20**). The residual standard deviation was calculated to be 1.9 ft. The residual mean is small (0.2 ft) and the residual standard deviation is only 5% of the range of observed water-level elevations difference across the site. These statistics indicate that a high degree of calibration has been achieved in this modeling effort.

4.2.3 Sensitivity Analysis

Non-uniqueness related to model parameterization often prevails during the development and application of numerical models. Furthermore, every model is based on assumptions that contain some degree of uncertainty. Non-uniqueness and model development uncertainties influence model predictions and must be considered to ensure robust model prediction. In order to examine the dependence of the calibration results on the parameter values, sensitivity tests were performed on all calibrated parameters including the horizontal conductivity zone, vertical leakance, and recharge rate. **Figures 21-22** show the sum of squared residual (SSR) change in percentage with 25% perturbation of each parameter tested. The results indicate that calibration results are sensitive to the model parameters and most parameters are optimized to minimize the calibration statistics as shown in **Figures 21-22**. However, a few exceptions exist where the change in parameter value leads to lower SSR. Under these circumstances, the original parameter value was retained because: 1) the

improvement in SSR with perturbation is not significant (<10%); and 2) the original value seems to fall into the range based on geologic and other site information.

5. Solute Transport Model

Solute transport modeling was performed to evaluate the migration and fate of constituents detected in the groundwater beneath the site. There are five primary CoCs for the groundwater at the site: carbon tetrachloride, chloroform, dinoseb, TCE, and dissolved arsenic. The solute transport model used the flow output from the recalibrated model to simulate constituent transport under average flow conditions. The solute transport model together with the flow model was then used to investigate and evaluate the transport of CoCs under several selected remedial options to assist remedial action decision-making.

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5.1 Code Selection

The MT3DMS code, developed for the U. S. Environmental Protection Agency (Zheng and Wang 1999), was selected for solute transport modeling at the site. MT3DMS is publicly available, features extensive code documentation and verification, and was developed to be used in conjunction with MODFLOW. The code is fully three-dimensional, simulates transport of multiple species in confined and unconfined aquifers, and can account for hydrodynamic dispersion, adsorption (retardation), and decay in the solute transport calculations. The MT3DMS code uses the flow terms and velocities computed by MODFLOW in its transport calculations. MT3DMS also uses the same finite-difference grid structure and boundary conditions as the groundwater flow model, minimizing the effort necessary to construct a solute transport model.

MT3DMS is unique in that it includes three major classes of transport solution techniques in a single code, i.e., the standard finite difference method; the particle-tracking based Eulerian-Lagrangian methods; and the higher-order finite-volume Total Variance Diminishing method. The combination of these solution techniques, each having its own strengths and limitations, offers the best approach for solving the most wide-ranging transport problems with desired efficiency and accuracy. In addition to the explicit formulation of the original MT3D code, MT3DMS includes an implicit formulation.

MT3DMS is implemented with an optional, dual-domain formulation for modeling mass transport. With this formulation, the porous medium is regarded as consisting of two distinct domains, a mobile domain where transport is predominantly by advection and

an immobile domain where transport is predominantly by molecular diffusion. Instead of a single "effective" porosity for each model cell, two porosities, one for the mobile domain and the other for the immobile domain, are used to characterize the porous medium. The exchange between the mobile and immobile domains is specified by a mass transfer coefficient. The dual-domain advective-diffusive model may be more appropriate for modeling transport in heterogeneous porous media than the single porosity advective-dispersive model.

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5.2 Initial Conditions and Source Evaluation

The observed constituent concentrations in groundwater beneath the site were used to initialize concentrations in the solute transport model for carbon tetrachloride, chloroform, dinoseb, TCE, and dissolved arsenic (**Figures 23-24**). Because chloroform was not used or manufactured at the site, it was modeled as the daughter product of carbon tetrachloride as part of a chain decay reaction. Further degradation product was not simulated in the model due to limited detection of these products in groundwater. TCE is also degradable under reducing condition. However, historical data show very limited detection of TCE daughter products, indicating limited TCE degradation on site. As a measure of conservatism, TCE was simulated without degradation. The data used to develop constituent distributions are summarized in **Table 4**.

Constituents detected in either the upper or lower aquifer were assumed to remain in both layers. This assumption leads to greater simulation of mass in the aquifer and provides an added level of conservatism for the solute transport model. These observed concentration contours from **Figures 23-24** were interpolated block by block over the limits of the model finite-difference grid to achieve a numerical representation of the concentration distribution. The solute transport modeling was conducted assuming that there will be no continuing source of the volatile organic compounds in groundwater.

5.3 Transport Parameters

The simulation of solute migration requires specification of various transport parameters that control the rate, movement, mixing, absorption, and degradation of a contaminant in the subsurface. Degradation refers to the mass decay of a contaminant due to physical, chemical, and biological activity within the aquifer. The future fate and transport of all constituents was simulated by two steady-state runs of MT3DMS. One simulation used Reaction Module 3 to model carbon tetrachloride and chloroform,

which is available with the MT3DMS code. This module is specifically designed to simulate the sequential decay process of carbon tetrachloride degrading to chloroform. Further daughter products were not included in the simulation due to the lack of daughter product detections in groundwater. The other simulation used Reaction Module 1 to model three independent constituents, dinoseb, TCE, and dissolved arsenic.

Solute transport was simulated using the dual-domain formulation, which is incorporated in the contaminant simulation code MT3DMS. In a dual-domain model, two porosity terms are entered; mobile and immobile porosity. Mobile porosity represents the more mobile portion of the formation (advection), while the immobile porosity represents the less mobile portions of the formation where diffusion is dominant. Mass transfer into and out of the less mobile zone is generally slow because the process is controlled by diffusion (Gillham et al. 1984; Harvey and Gorelick 2000; Feehley et al. 2000; Julian et al. 2001; Zheng and Bennet 2002; Flach et al. 2004; Molz et al. 2006). An assumed total porosity of 30% for the model was divided into the two domains (10% mobile porosity and 20% immobile porosity). Equal contaminant concentrations were set in both the mobile and immobile domains. A mass transfer coefficient of 0.001 (day^{-1}) was utilized in this model.

Transformation reaction from carbon tetrachloride to chloroform requires a yield parameter, which expresses the mass of the daughter product produced per mass of the parent compound consumed. This yield coefficient is less than 1.0 because of the substitution of the lighter hydrogen atoms for the heavier chlorine atoms during the degradation process. The yield coefficient, computed as the ratio of the molecular weights of the respective daughter and parent compounds, is 0.776.

All five of the constituents are modeled with first order rate laws; thus, each requires a single input parameter to characterize its biodegradation rate. Degradation rates are only applied to the mobile dissolved phase. This parameter can be expressed as a rate constant in units of inverse time, or as a half-life of the parent compound. The change in soluble mass of a contaminant due to biological activity was represented mathematically as first-order degradation process:

$$M = M_0 e^{-\lambda t} \qquad (5\text{-}1)$$

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where *M* is the mass (mobile domain) in solution at time *t*, M_0 is the initial mass (mobile domain) in solution, and • is the decay coefficient. The decay coefficient can be computed if the total mass is known at different points in time using the equation:

$$\lambda = In\left(\frac{M_1}{M_2}\right)\left(t_2 - t_1\right) \quad (5\text{-}2)$$

The degradation half-life ($t_{1/2}$) (the amount of time it takes for 50% of the contaminant to degrade) and the decay coefficients are related using the following equation:

$$\lambda = \frac{ln2}{t_{1/2}} \quad (5\text{-}3)$$

The presence of biological degradation products of carbon tetrachloride (chloroform) indicates that biological processes are ongoing to degrade the carbon tetrachloride *in situ* at the site. However, historical concentration data are limited at the site for a thorough analysis of the attenuation rates. Among a few wells for which historical concentration data are available, Well MW-10C demonstrates a consistently declining trend and therefore was used for attenuation rate analysis. The calculated attenuation half-lives for carbon tetrachloride and chloroform are 2.37 years and 4.68 years, respectively. These attenuation rates are used as the degradation rates in the model, assuming that biological reaction is the major mechanism that causes the concentration to decline. For dinoseb, literature suggests that biodegradation is not expected to occur in natural water (USEPA 1989). Therefore, no degradation is used in the transport model. Limitation in oxidation reduction (REDOX) data on site limits our ability to show any naturally occurring immobilization or reduction in concentration for dissolved arsenic. As a result, transport modeling for dissolved arsenic is only for the most conservative case with no degradation or precipitation. Likewise, the degradation rate for TCE was not applied in the transport model as a result of limited daughter product detection.

In addition to the chain degradation simulated by the kinetic reaction module, the fate and transport of each constituent was simulated using the processes of advection, dispersion, and transport retardation (adsorption). Advection defines the process of contaminant migration due to the movement of groundwater. Dispersion accounts for the mixing of the contaminant in the groundwater due to non-ideal flow paths in the

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aquifer medium. Adsorption refers to the partitioning of a contaminant between the liquid and solid phases of the aquifer.

Dispersion was not specifically considered in the transport analysis at the site; however, a limitation of the finite-difference scheme applied by MT3D is that some numerical dispersion is inherent in the simulation results. Numerical dispersion is a function of the size of the mesh, the time step size, the hydrogeologic properties assigned in the model, and the simulated water levels. It should be noted that while numerical dispersion is an artifact of the solution process, there is no mathematical difference between physical and numerical dispersion. The numerical dispersivity can be computed on a block-by-block basis in models solved using finite difference methods (Zheng and Bennett 2002). Application of the equations reported by Zheng and Bennett (2002) indicates that the numerical dispersivity is approximately one-half the modeled grid size (approximately 2.5 feet for this analysis in the site area); therefore, dispersion coefficients were not explicitly defined.

The retardation factor (R_f) is used by the solute transport model to represent the amount of adsorption of a constituent between the dissolved or solute phase and adsorbed to the aquifer. The retardation factor is calculated in MT3D using the bulk density (ρ_b), the effective porosity (n_e) of the aquifer material, and a distribution coefficient (K_d), according to the following equation:

$$R_f = 1 + \frac{\rho_b K_d}{n_e} \quad (5\text{-}4)$$

The distribution coefficient is the product of the organic carbon content in the aquifer (f_{oc}) and the constituent distribution coefficient normalized to particulate organic carbon (K_{oc}):

$$K_d = K_{oc} \times f_{oc} \quad (5\text{-}5)$$

The literature reports a K_{oc} value for carbon tetrachloride of 71 liters per kilogram (L/kg), 45 L/kg for chloroform (Hazardous Substances Data Bank 2008), 120 L/kg for dinoseb, and 170 L/kg (USEPA 2004). The fraction of organic carbon was assumed to be 0.0005. The bulk density of 1.855 grams per cubic centimeter was calculated for the aquifer and is based on the estimated total porosity of 30%. Therefore, the retardation factor for each constituent in the model is 1.66 for carbon tetrachloride, 1.42 for chloroform, 2.11 for dinoseb, and 2.54 for TCE.

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6. Transport Simulations

The solute transport model was used to simulate the migration and degradation of the constituents under the current and proposed remediation system conditions. Initially, contaminant plumes for each of the organic CoCs were developed based on data from January, February, and May 2007; contaminant plumes for dissolved arsenic were developed based on data from March 2008 (see Site Characterization Report for more details). Simulations were conducted for the three scenarios listed below over a period of 50 years. The model-simulated concentrations over time were used to evaluate the effectiveness of the existing and postulated hydraulic systems in remediating the plumes in groundwater. For Scenarios 1 to 3, the simulated results are presented as plume distributions for future years when CoCs in groundwater discharge to nearby surface water in either Model Layers 1 or 2. For cases where the simulated CoC plumes never discharge to surface water over the simulation period, the plume distribution with the maximum extent of the plume closest to nearby surface water is shown. For Scenario 4, simulated results are presented as plume distributions for Years 10, 30, and 50.

6.1 Scenario 1 – Monitored Natural Attenuation (MNA) with Engineered Cap

This scenario simulated future conditions that are similar to existing conditions where natural attenuation continues to occur in the future. Additionally, an engineered cap covering approximately 17 acres of land on site (**Figures 25-26)** was included in the simulation as a fundamental remedial measure to minimize recharge over the affected area and to reduce potential surface exposure. The simulated groundwater elevations and flow directions are nearly identical to existing conditions. It is important to note that while simulated water levels are similar in the upper and lower model layers, the simulated groundwater velocity is approximately 2 to 3 times higher in Layer 2 than Layer 1, as a result of higher hydraulic conductivity defined in Layer 2.

Figures 27-35 show the plume migration snapshots for a given year when discharge to the surface water body occurs for each of the CoCs. This set of simulations suggests that:

- Dictated by the site hydraulics, all of the CoCs make their way to Stouts Bayou and/or Hennesseys Bayou, assuming no further remedial action is taken;
- Because of the higher hydraulic conductivity and consequently higher groundwater velocity in Layer 2, most of the first occurrences of contaminant discharges to

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surface water occur from transport in the deeper Model Layer 2. Groundwater from the deeper zone flows upward into Model Layer 1 to discharge to surface water. Direct contaminant discharge to surface water also occurs in Layer 1, often at a later time, as a result of slower groundwater velocity; and

- Multiple discharge locations for certain constituents (chloroform, dinoseb, and TCE) present challenges for remedial actions.

6.2 Scenario 2 – Downgradient Slurry Wall with Engineered Cap

This scenario includes a downgradient slurry wall that intercepts the downgradient contaminant movement toward the bayous. The simulation also includes the engineered cap as in Scenario 1. The slurry wall is assumed to be in both layers throughout the thickness of the most closely spaced model grid (5 ft) with estimated hydraulic conductivity of 0.0001 ft/day. **Figures 36-37** present the simulated water levels for both model layers. It is evident from the results that the slurry wall minimizes the groundwater flow downgradient of the wall across the site area. However, the downgradient slurry wall alone causes groundwater mounding on the upgradient side of the wall. The water level increases upgradient of the wall lead to groundwater flow from upgradient areas to bypass the wall.

Figures 38-41 present the plume transport distributions for given years when discharge to the bayous occurs for carbon tetrachloride, chloroform, and dinoseb. Although the slurry wall helps to successfully contain the carbon tetrachloride plume on site for up to 50 years, plumes with a larger extent (i.e., chloroform and dinoseb) bypass the slurry wall barrier and discharge to the bayous. Therefore, the single slurry wall demonstrates limited hydraulic control in containing the plumes on site.

6.3 Scenario 3 – Upgradient Slurry Wall with Extraction Wells

Scenario 3 was used to evaluate the performance of an upgradient slurry wall that attempts to reduce the hydraulic gradients and hence the groundwater velocity at which the contaminants migrate off site. Three extraction wells are placed upgradient to the slurry wall to control water mounding that may potentially occur behind the slurry wall. The engineered cap is also included as an additional remedial measure to minimize the recharge of the affected area. The slurry wall is placed to be in both layers with the thickness of the most closely spaced model grid (5 ft) with estimated hydraulic conductivity of 0.0001 ft/day. **Figures 42-43** show the simulated water-level contours for this scenario.

Figures 44-52 show the plume migration snapshots for a given year when discharge to the surface water body occurs for each of the CoCs. These results suggest that: 1) the upgradient slurry wall reduces the hydraulic gradients and slows down the migration of contaminants to the surface bayou; 2) the upgradient slurry wall is not able to prevent the discharge of the contaminants to the bayou.

6.4 Scenario 4 – Downgradient Collection Trench with Engineered Cap

Results from Scenario 2 suggest that groundwater extraction is needed in addition to hydraulic control measures to control the plume migration. Two alternatives, extraction wells and collection trenches, were considered in order to improve plume capture. However, due to the tight formation at the site, extraction wells demonstrated limited ability in water removal compared to collection trenches. As a result, collection trenches were selected in Scenario 4 as a major component of the remedial measures.

Scenario 4 was developed to evaluate the performance of a downgradient collection trench, designed to penetrate to Model Layer 2 (**Figures 53-54**), and the engineered cap as remedial measures to protect nearby surface water bodies. The groundwater elevation inside the trench is hydraulically controlled at an elevation of 70 ft (approximately 30 to 40 ft below ground surface) through a pumping rate of 6.2 gallons per minute. This extraction rate is approximately the maximum pumping rate that the formation will support according to the model. **Figures 53-54** show the simulated water-level contours for this scenario.

Figures 55-69 show the contaminant distribution at Years 10, 30, and 50 for each of the CoCs in Model Layer 2. This set of results suggests that the downgradient collection trench achieves on-site containment of all the constituents near the South Plant. At the end of 50 years, the majority of the contaminants are removed from the trench and no constituents have been discharged to the bayou.

7. Summary

The existing hydrogeologic data collected at the Vicksburg site and additional regional information found in the literature were used to construct and calibrate a three-dimensional groundwater flow and solute transport model for the site. The simulation of groundwater flow and contaminant transport was performed to simulate future migration of CoCs at the site and evaluate proposed hydraulic systems in remediating CoCs in groundwater. The primary CoCs for the site include four

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organic compounds and one dissolved metal: carbon tetrachloride, chloroform, dinoseb, TCE, and dissolved arsenic.

The groundwater flow model was developed to simulate flow in the uppermost water table aquifer (Pleistocene loess) beneath the site. The loess aquifer is unconfined throughout its extent and hydraulically separated from deeper, more productive aquifers such as the Forrest Hill formation.

The calibrated groundwater flow model was used to conduct a solute transport evaluation for CoCs at the site. The model simulated the simultaneous reactive transport of carbon tetrachloride and chloroform, assuming the chain decay of carbon tetrachloride (parent compound) and production of chloroform (daughter product). Dinoseb and TCE are modeled without any degradation and dissolved arsenic is modeled without degradation or precipitation. The flow and solute transport model was used to predict future CoC concentrations within the aquifer unit and evaluate performances of several hydraulic systems.

The remediation systems that have been evaluated include: 1) MNA scenario with an engineered cap; 2) an upgradient slurry wall with the engineered cap as in the MNA Scenario; 3) an upgradient slurry wall with the engineered cap as in the MNA Scenario; and 4) a downgradient collection trench with the engineered cap as in the MNA Scenario. The modeling results suggest that: 1) under MNA condition, all of the CoCs will migrate downgradient and ultimately release to the bayous; 2) a downgradient slurry wall alone causes some constituents to bypass the wall and discharge to the nearby bayous; 3) an upgradient slurry wall can slow down the plume migration, but is not able to prevent discharge of the COCs to the surface bayou; and 4) a downgradient collection trench demonstrates success in containing the plumes in the South Plant on site and preventing all the CoCs from discharging to nearby receptors.

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Tables

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Table 1. Hydraulic Conductivity from Slug Test, February 2007, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Monitor Well ID	Depth to Water (ft)	Hydraulic Conductivity (ft/day)
MW 2	6.85	0.0068
PZ 26A	7	0.0319
MW 5	4.8	0.373
MW 6	11.65	0.455
MW 11	7.8	0.104
PZ 21A	4.42	1.274
PZ 24B	6.17	0.263

NOTES

ft Feet.

ft/day Feet per day.

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Table 2. Monitoring Well Water-Level Elevation Data, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Monitor Well ID	Model Layer	Total Depth (ft msl)	TOC Elevation (ft msl)	Water Level Elevation (ft msl), January 2007	Water Level Elevation (ft msl), October 2007
MW-1A	1	32.83	111.39	108.90	108.17
MW-1C	1	29.95	111.66	108.75	108.04
MW-2	2	41.56	108.89	102.98	95.79
MW-4	1	27.79	112.00	108.24	105.72
MW-5	2	20.61	101.13	86.93	82.42
MW-6	2	26.82	100.70	89.65	84.21
MW-7	2	32.87	99.98	95.52	86.98
MW-8	2	26.95	109.48	104.73	101.03
MW-9	2	60.43	116.04	112.42	108.39
MW-10	2	54.74	114.40	110.27	105.85
MW-10C	1	18.19	113.28	109.37	105.82
MW-11	2	51.59	104.89	97.36	96.58
MW-12	2	50.40	111.68	110.34	104.70
MW-12C	1	19.48	113.76	109.21	104.58
MW-13	2	52.65	113.45	111.61	109.26
MW-14	2	59.87	113.80	108.29	107.09
MW-16	2	55.50	111.77	111.04	107.69
MW-17A	1	32.39	123.08	119.48	118.06
MW-17B	1	22.77	123.21	119.71	118.58
MW-18A	1	34.62	122.84	113.78	111.31
MW-18B	1	27.63	122.96	114.13	111.47
PZ-12A	2	76.86	137.56	108.33	105.53
PZ-12B	1	38.49	136.81	121.13	114.65
PZ-20A	2	73.65	136.18	108.37	105.51
PZ-20B	1	40.28	136.16	115.50	112.95
PZ-21A	2	59.14	115.14	108.25	105.47
PZ-22A	2	52.00	112.51	107.53	104.81
PZ-22B	1	27.44	113.42	109.46	109.80
PZ-23A	2	53.36	112.67	108.04	105.15
PZ-23B	1	30.03	113.10	109.65	105.34
PZ-24B	1	49.28	112.08	107.28	NA
PZ-25B	2	43.00	113.82	111.29	107.37
PZ-26A	2	40.68	108.82	101.84	98.84
PZ-26B	1	31.68	109.03	101.41	98.48

NOTES

TOC Top of casing.
ft msl Feet mean sea level.
NA Not available.

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Table 3. Simulated Water Levels and Residual Statistics, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Monitor Well ID	Model Layer	Easting	Northing	Water Level Elevation (ft msl) (01/07)	Simulated Water Level	Residual	Water Level Elevation (ft msl) (10/07)	Simulated Water Level	Residual
MW-1A	1	2120112	1016775	108.90	110.08	-1.18	108.17	106.46	1.71
MW-1C	1	2120119	1016791	108.75	110.54	-1.79	108.04	106.85	1.20
MW-4	1	2121526	1019124	108.24	104.36	3.88	105.72	103.35	2.37
MW-10C	1	2119838	1016533	109.37	107.82	1.55	105.82	104.75	1.07
MW-12C	1	2119515	1016349	109.21	108.83	0.38	104.58	105.55	-0.97
MW-17A	1	2119384	1016724	119.48	121.90	-2.42	118.06	116.21	1.85
MW-17B	1	2119370	1016717	119.71	121.66	-1.95	118.58	116.02	2.56
MW-18A	1	2119383	1016518	113.78	114.19	-0.41	111.31	110.09	1.22
MW-18B	1	2119396	1016524	114.13	114.55	-0.42	111.47	110.36	1.11
PZ-12B	1	2120701	1017781	121.13	120.53	0.60	114.65	115.75	-1.10
PZ-20B	1	2120815	1017809	115.50	116.37	-0.87	112.95	112.11	0.84
PZ-22B	1	2120938	1017814	109.46	110.72	-1.26	109.80	107.19	2.61
PZ-23B	1	2120849	1017675	109.65	109.99	-0.34	105.34	106.51	-1.17
PZ-24B	1	2120764	1017521	107.28	108.10	-0.82	NA		
PZ-26B	1	2120800	1017390	101.41	101.74	-0.33	98.48	99.64	-1.16
MW-2	2	2118688	1015789	102.98	100.55	2.43	95.79	100.33	-4.54
MW-5	2	2120105	1015751	86.93	88.66	-1.73	82.42	87.29	-4.86
MW-6	2	2119703	1015642	89.65	88.84	0.81	84.21	86.42	-2.21
MW-7	2	2119223	1015677	95.52	90.12	5.41	86.98	88.47	-1.49
MW-8	2	2119108	1016135	104.73	105.58	-0.85	101.03	103.61	-2.58
MW-9	2	2119816	1016737	112.42	113.28	-0.86	108.39	109.30	-0.91
MW-10	2	2119825	1016522	110.27	108.64	1.63	105.85	105.35	0.50
MW-11	2	2120219	1016663	97.36	97.54	-0.18	96.58	96.22	0.36
MW-12	2	2119497	1016337	110.34	108.47	1.87	104.70	105.28	-0.58
MW-13	2	2120030	1016882	111.61	113.14	-1.53	109.26	109.20	0.06
MW-14	2	2120237	1016896	108.29	107.93	0.36	107.09	104.85	2.24
MW-16	2	2119986	1016686	111.04	109.54	1.50	107.69	106.16	1.53
PZ-12A	2	2120696	1017792	108.33	111.60	-3.27	105.53	108.14	-2.61
PZ-20A	2	2120823	1017815	108.37	109.95	-1.57	105.51	106.75	-1.24
PZ-21A	2	2120882	1018110	108.25	110.84	-2.59	105.47	107.68	-2.21
PZ-22A	2	2120936	1017804	107.53	107.79	-0.26	104.81	104.89	-0.08
PZ-23A	2	2120853	1017682	108.04	107.80	0.24	105.15	104.85	0.30
PZ-25B	2	2120503	1017280	111.29	108.87	2.42	107.37	105.65	1.72
PZ-26A	2	2120806	1017397	101.84	103.20	-1.36	98.84	100.91	-2.07
					Total Used	34			33
					Minimum	-5.405			-2.615
					Maximum	3.27			4.865
					Mean	0.086			0.197
					Median	0.373			-0.062
					Avg Dev	1.423			1.619
					Variance	3.467			3.824
					St Dev	1.862			1.955
					SSR	114.66			123.649

NOTES

ft msl Feet mean sea level.
Avg Dev Average Deviation
St Dev Standard Deviation
SSR Sum of Squared Residual.

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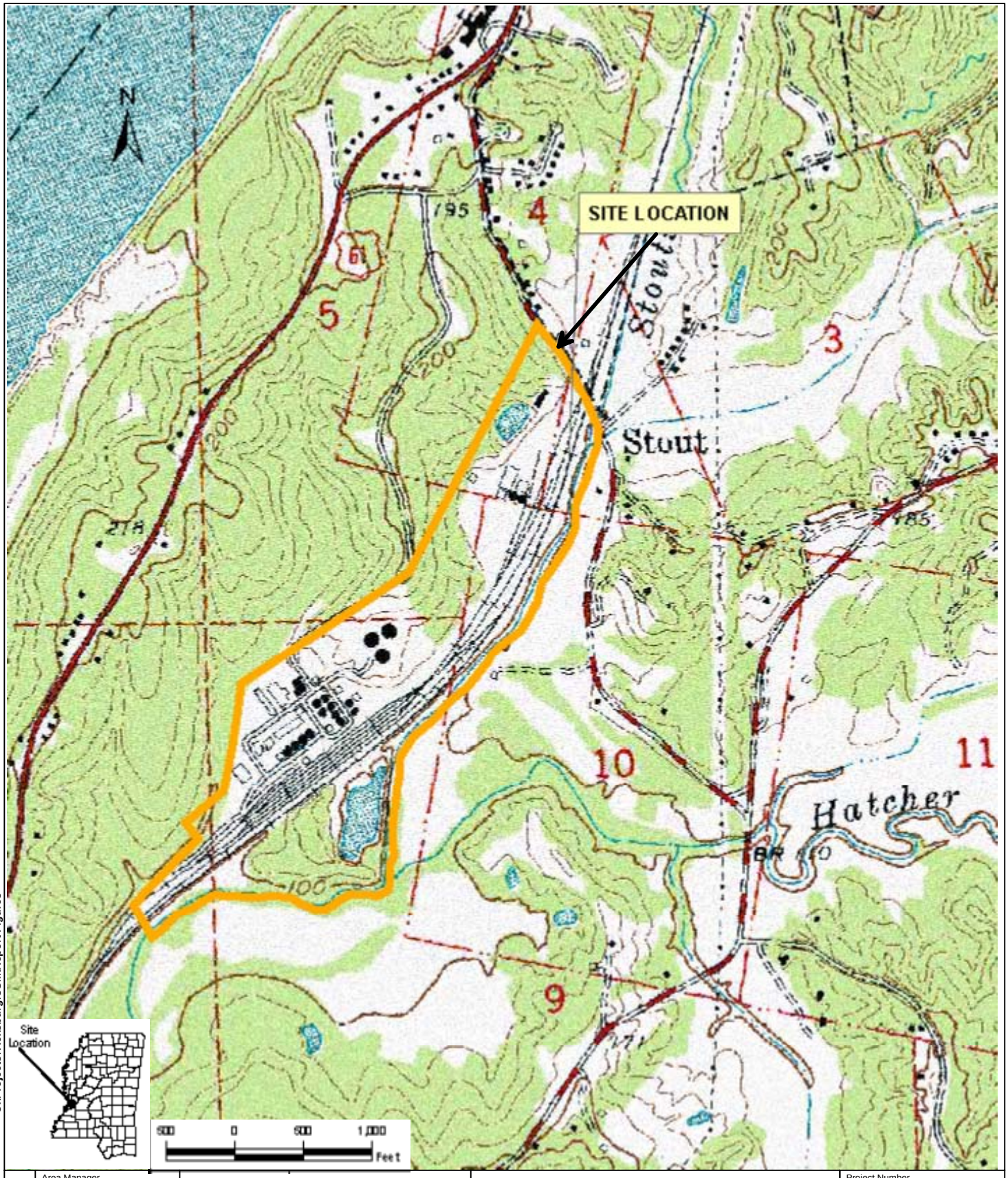
Table 4. Summary of Analytical Data, Former Vicksburg Chemical Company, Vicksburg, Mississippi.

Monitor Well ID	Easting	Northing	Arsenic, Dissolved (ppm)	Carbon Tetrachloride (ppm)	Chloroform (ppm)	Dinoseb (ppm)	TCE (ppm)
MW-1A	2120112	1016775	0.00076	0.005	0.00066	0.0322	0.00695
MW-1C	2120119	1016791	0.0009	0.005	0.00085	0.0235	0.0112
MW-2	2118688	1015789	0.0012	0.005	0.005	0.002	0.005
MW-4	2121526	1019124	0.00099	0.005	0.005	0.002	0.005
MW-5	2120105	1015751	0.0019	0.005	0.005	0.002	0.005
MW-6	2119703	1015642	0.0006	0.005	0.00892	0.002	0.005
MW-7	2119223	1015677	0.0073	0.005	0.005	0.002	0.005
MW-8	2119108	1016135	0.0302	0.005	0.005	0.002	0.005
MW-9	2119816	1016737	0.0011	0.005	0.005	0.002	0.005
MW-10	2119825	1016522	0.0023	0.005	0.005	0.002	0.005
MW-10C	2119838	1016533	0.00064	0.243	0.43	2.32	0.005
MW-11	2120219	1016663	0.00063	0.005	0.005	0.013	0.00578
MW-12	2119497	1016337		0.005	0.005	0.002	0.005
MW-12C	2119515	1016349	0.0011	17.2	5.78	14.4	0.15
MW-13	2120030	1016882		0.005	0.00089	0.002	0.005
MW-14	2120237	1016896	0.0013	0.005	0.005	0.002	0.005
MW-16	2119986	1016686		0.005	0.005	0.002	0.005
MW-17A	2119384	1016724		0.005	0.005	0.002	0.005
MW-17B	2119370	1016717	0.0688	0.005	0.005	0.002	0.005
MW-18A	2119383	1016518		0.005	0.005	0.002	0.005
MW-18B	2119396	1016524	0.284	0.005	0.005	0.002	0.005
PZ-12A	2120696	1017792		0.005	0.005	0.002	0.005
PZ-12B	2120701	1017781		0.005	0.005	0.002	0.005
PZ-20A	2120823	1017815	0.00054	0.005	0.005	0.002	0.005
PZ-20B	2120815	1017809	0.0151	0.005	2.09	0.002	0.005
PZ-21A	2120882	1018110	<0.0002	0.005	0.005	0.002	0.005
PZ-22A	2120936	1017804	0.0104	0.005	0.00086	0.002	0.005
PZ-22B	2120938	1017814	0.0083	0.1	11.2	0.002	0.005
PZ-23A	2120853	1017682		0.005	0.005	0.002	0.005
PZ-23B	2120849	1017675	0.006	0.005	0.0141	0.002	0.005
PZ-24B	2120764	1017521		0.005	0.005	0.002	0.005
PZ-25B	2120503	1017280	0.0016	0.005	0.00089	0.002	0.005
PZ-26A	2120806	1017397	0.00076	0.005	0.005	0.002	0.005
PZ-26B	2120800	1017390	0.0014	0.005	0.005	0.002	0.005

NOTES
ppm Parts per million.
TCE Trichloroethene.

Figures



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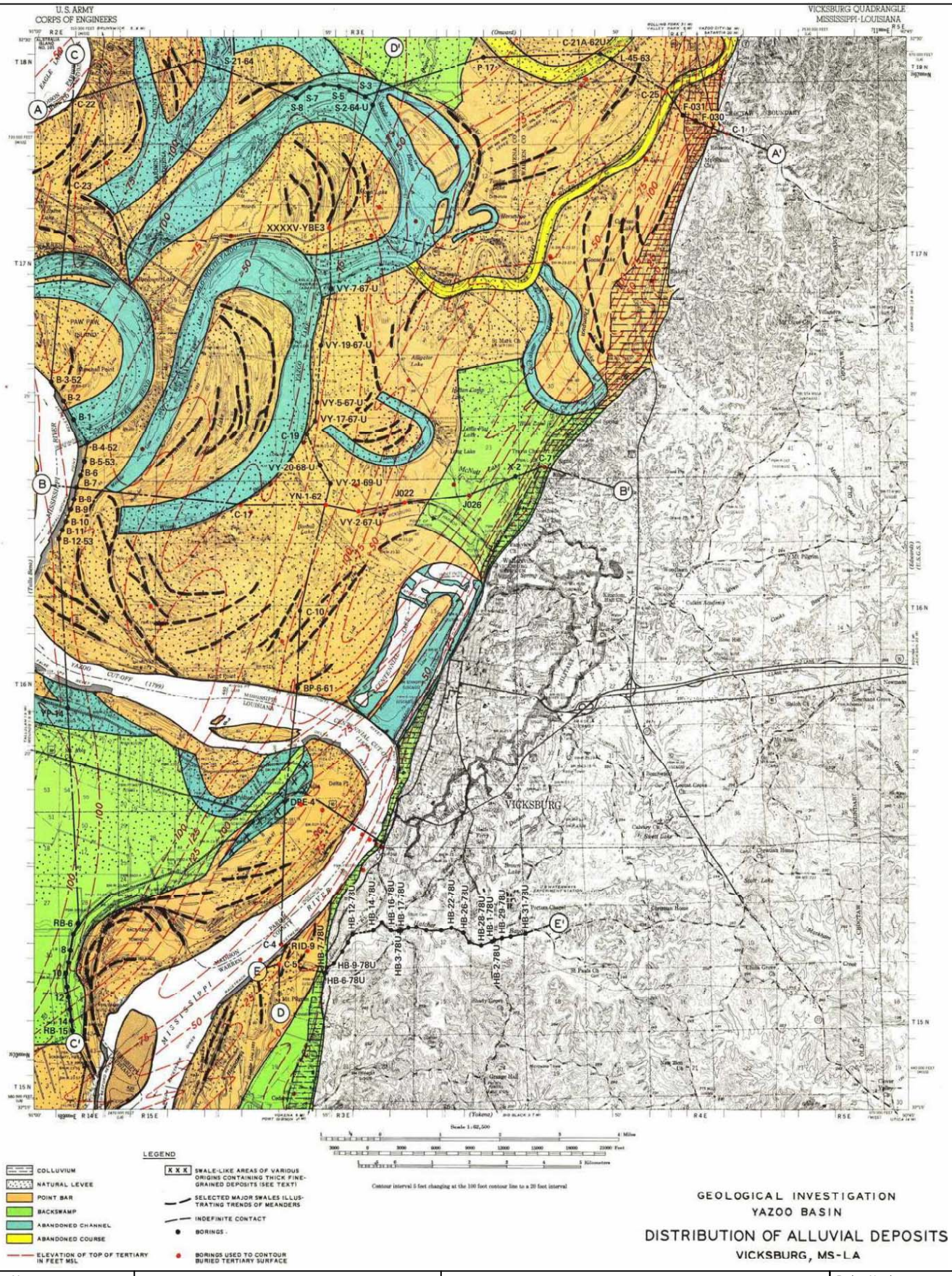
Site Location

VICKSBURG CHEMICAL COMPANY
VICKSBURG, MISSISSIPPI

Project Number	LA002656.0001
Drawing Date	Jan 22 2008
Figure	1



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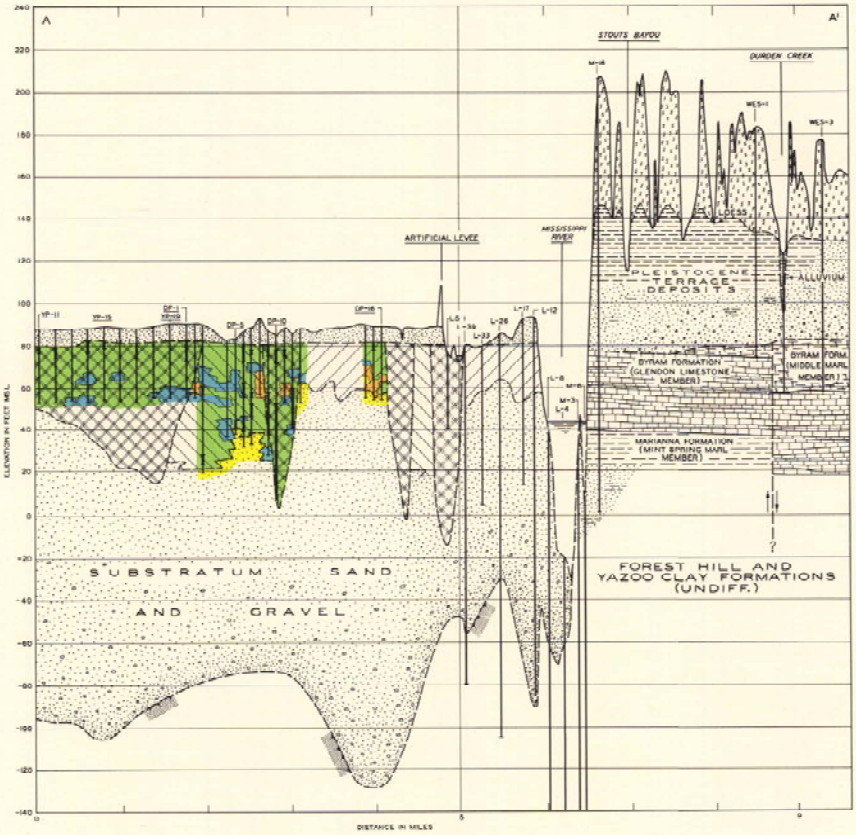
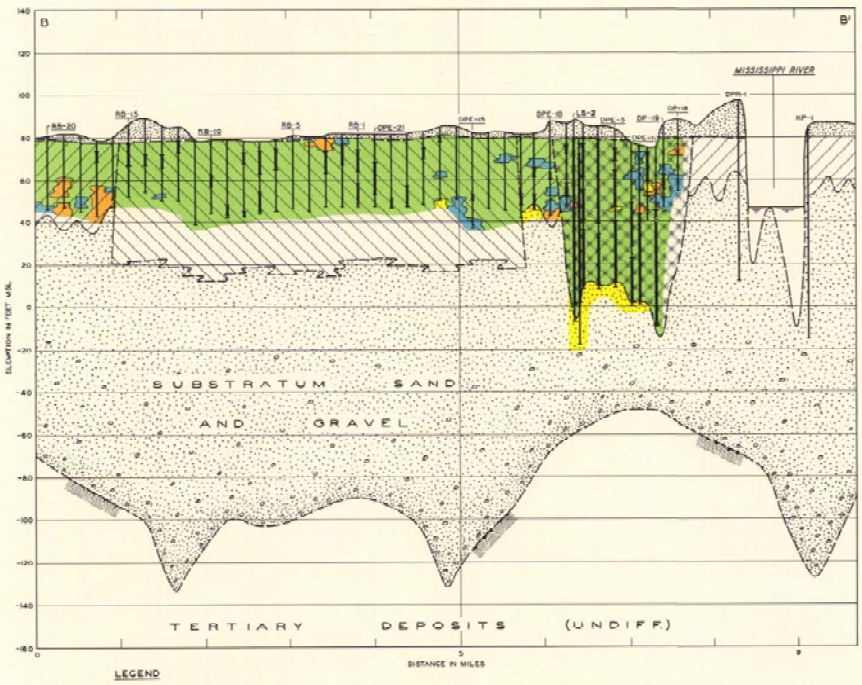
Regional Site Geology

VICKSBURG CHEMICAL COMPANY
VICKSBURG, MISSISSIPPI

Project Number	LA002656.0001
Drawing Date	22 JAN 2008
Figure	2





LEGEND

PRE-1850 CE SOILS CLASSIFICATION

PROBABLE EQUIVALENTS IN UNIFIED SOIL CLASSIFICATION SYSTEM

- SAND, SAND & GRAVEL — SAND (SP, SW) GRAVEL (GP, GW)
- SILTY SAND — SILTY SAND (SM)
- CLAY SAND, SANDY CLAY, SILT, SANDY SILT — CLAYEY SAND (SC), SILT & VERY FINE SAND (ML), SILT (MH)
- CLAY, BLUE MUD, SILTY CLAY, CLAY SILT — FAT CLAY (CH), LEAN CLAY (CL), ORGANIC CLAYS (OH)

SOIL TYPES ARE SHOWN TO THE MAXIMUM DEPTH OF DETAILED BORING INFORMATION.

7A - BORING NUMBER

CLAY ZONES WITH WATER CONTENTS OVER 40% DRY WEIGHT (INDICATED IN BORINGS IN WHICH BORING NUMBER IS UNDERLINED)

PROJ - PROJECTED A SHORT DISTANCE INTO PROFILE

TOPSTRATUM
- NATURAL LEVEE
- POINT BAR
- BACKSWAMP
- ABANDONED CHANNEL OR "CLAY PLUG"
- SWALE-LIKE AREAS OF VARIOUS ORIGINS

SUBSTRATUM
- UNDIFFERENTIATED SAND AND GRAVEL
- TERTIARY SURFACE

GEOLOGICAL INVESTIGATION
BOEUF-TENSAS BASIN

SECTIONS A-A' AND B-B'

VICKSBURG, MISS.-LA.

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Regional Site Cross Section

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VICKSBURG, MISSISSIPPI

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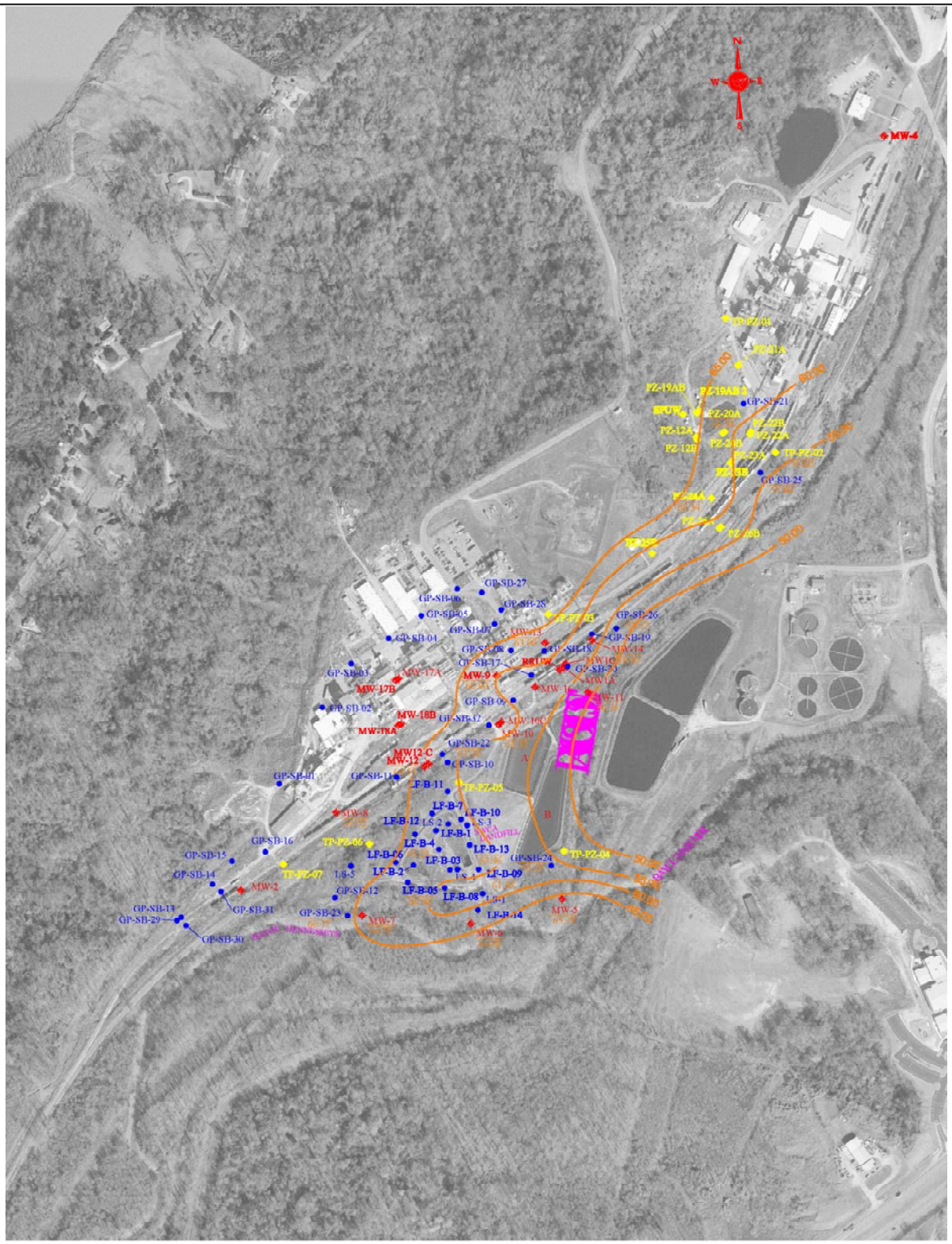
Figure	3



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Top of Byram Marl Structure Map

VICKSBURG CHEMICAL COMPANY
VICKSBURG, MISSISSIPPI

Project Number	LA002656.0001
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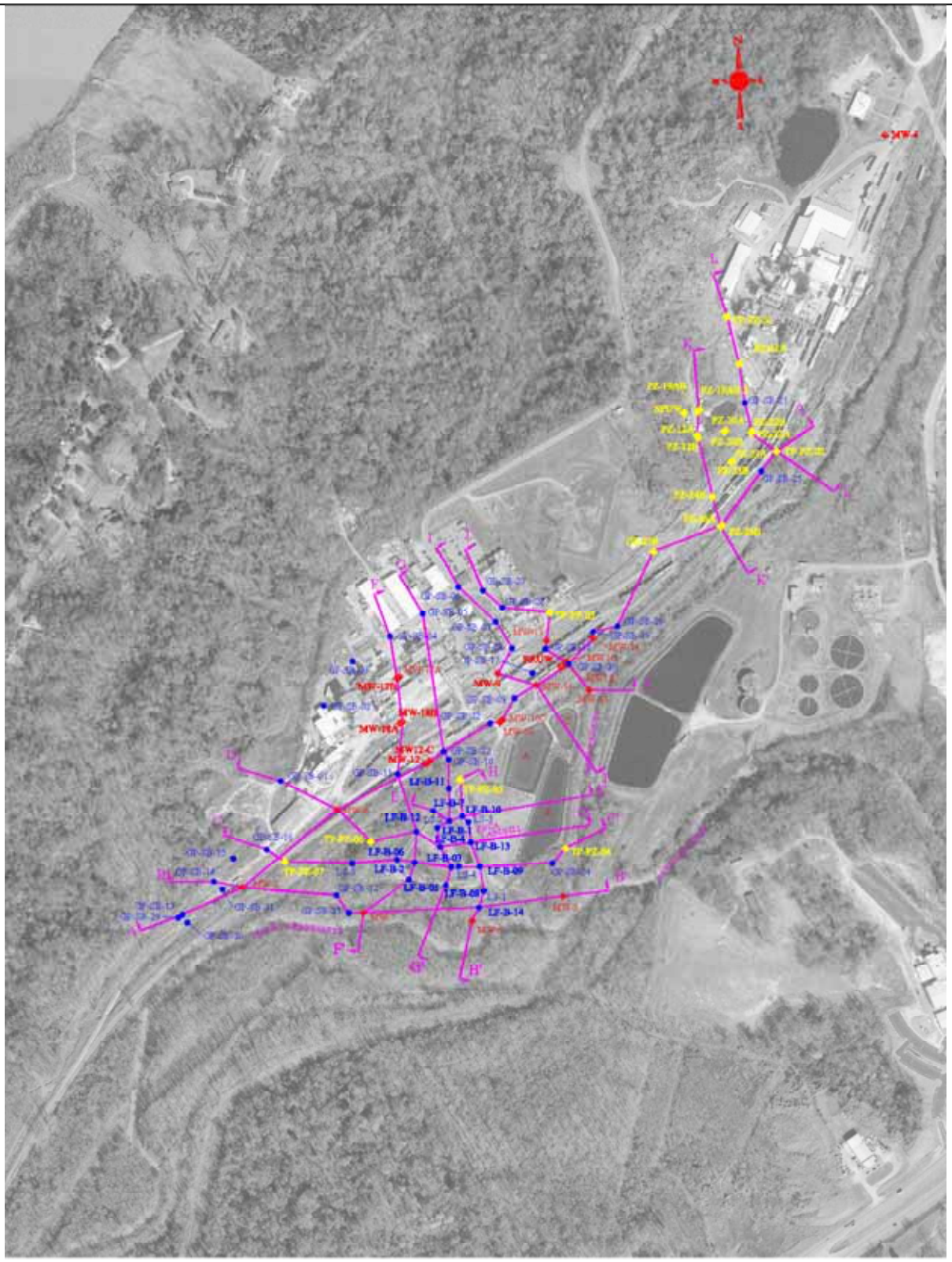
Figure	4



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Cross-Section Location Map

VICKSBURG CHEMICAL COMPANY
VICKSBURG, MISSISSIPPI

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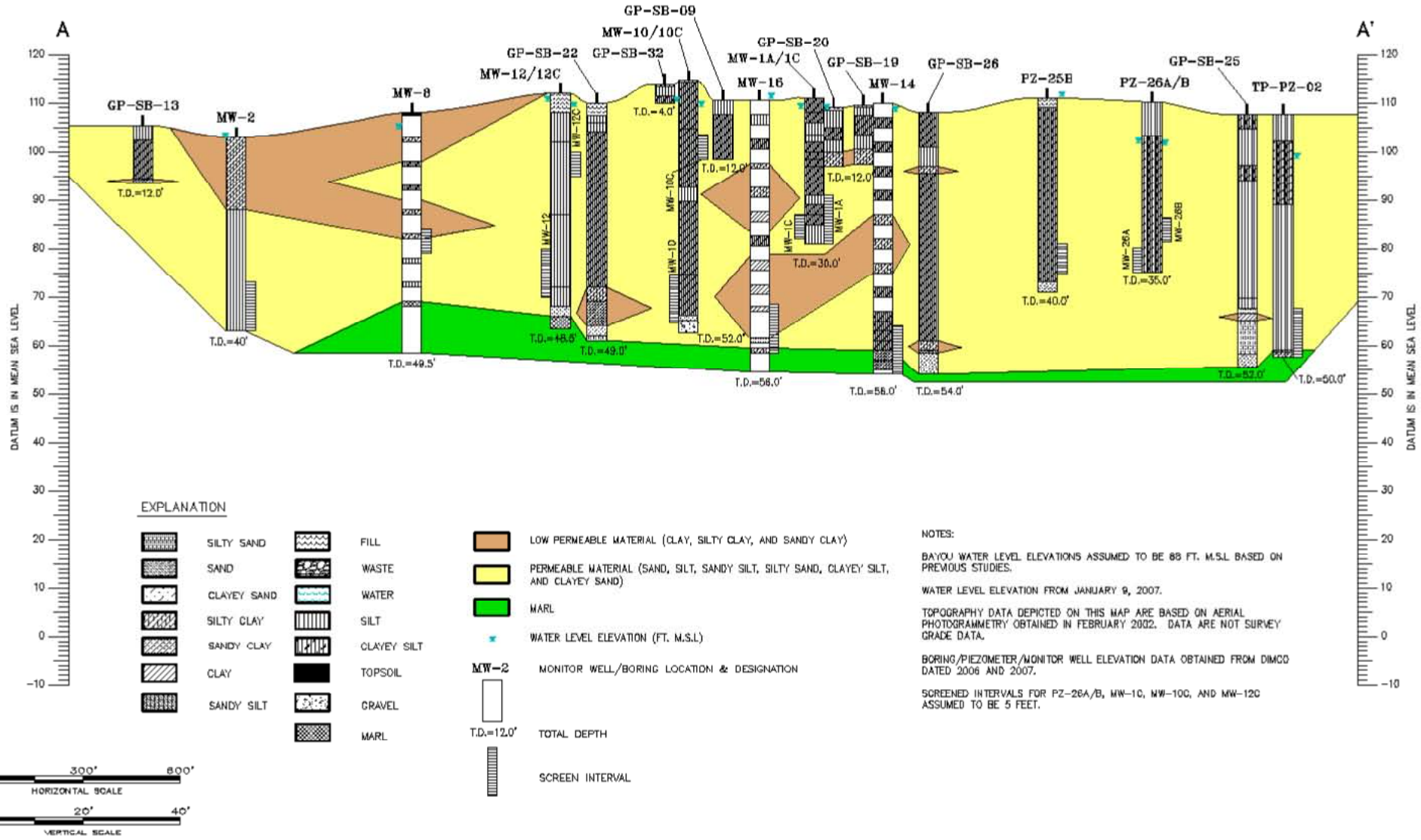
Figure	5



Cross-Section A-A'

VICKSBURG CHEMICAL COMPANY
VICKSBURG, MISSISSIPPI

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Figure	6

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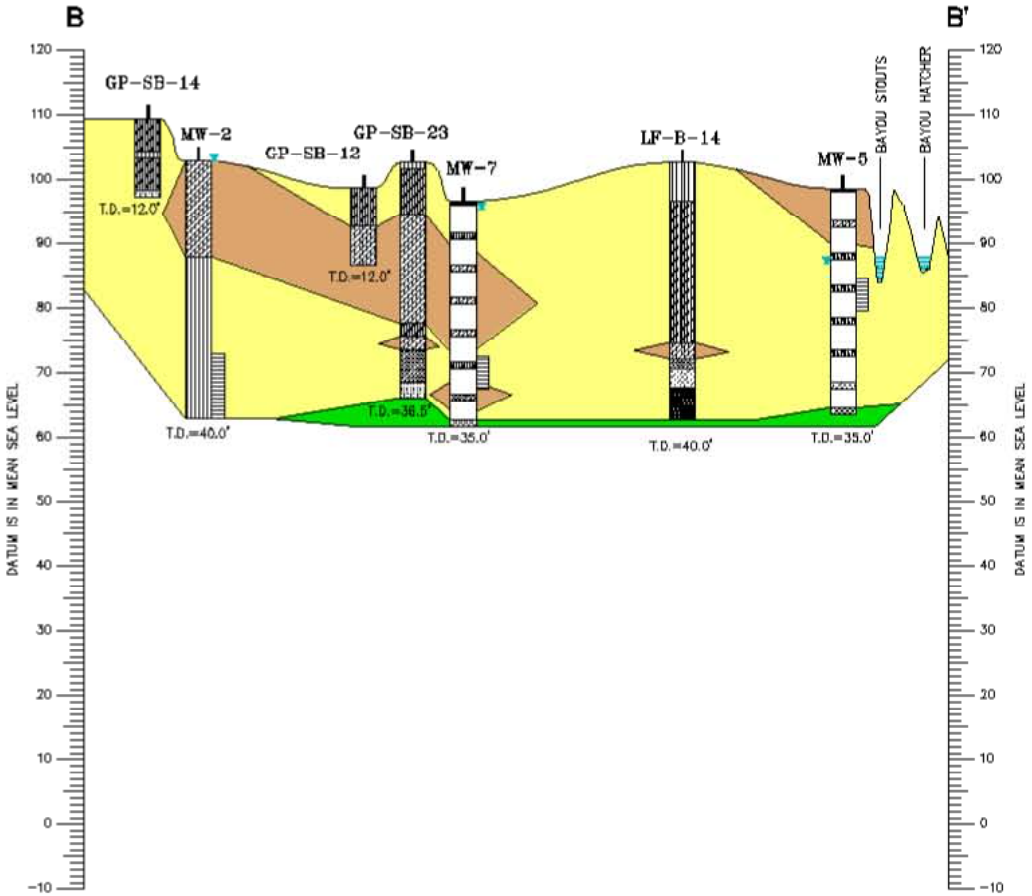

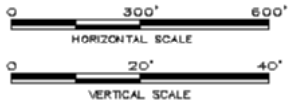

EXPLANATION

SILTY SAND	FILL
SAND	WASTE
CLAYEY SAND	WATER
SILTY CLAY	SILT
SANDY CLAY	CLAYEY SILT
CLAY	TOPSOIL
SANDY SILT	GRAVEL
	MARL

LOW PERMEABLE MATERIAL (CLAY, SILTY CLAY, AND SANDY CLAY)

PERMEABLE MATERIAL (SAND, SILT, SANDY SILT, SILTY SAND, CLAYEY SILT, AND CLAYEY SAND)

MARL

WATER LEVEL ELEVATION (FT. M.S.L)

SCREEN INTERVAL

MW-2 MONITOR WELL/BORING LOCATION & DESIGNATION

T.D.=40.0' TOTAL DEPTH

NOTES:

BAYOU WATER LEVEL ELEVATIONS ASSUMED TO BE 68 FT. M.S.L BASED ON PREVIOUS STUDIES.

WATER LEVEL ELEVATION FROM JANUARY 9, 2007.

TOPOGRAPHY DATA DEPICTED ON THIS MAP ARE BASED ON AERIAL PHOTOGRAMMETRY OBTAINED IN FEBRUARY 2002. DATA ARE NOT SURVEY GRADE DATA.

BORING/PIEZOMETER/MONITOR WELL ELEVATION DATA OBTAINED FROM DMCO DATED 2006 AND 2007.

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Cross-Section B-B'

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VICKSBURG, MISSISSIPPI

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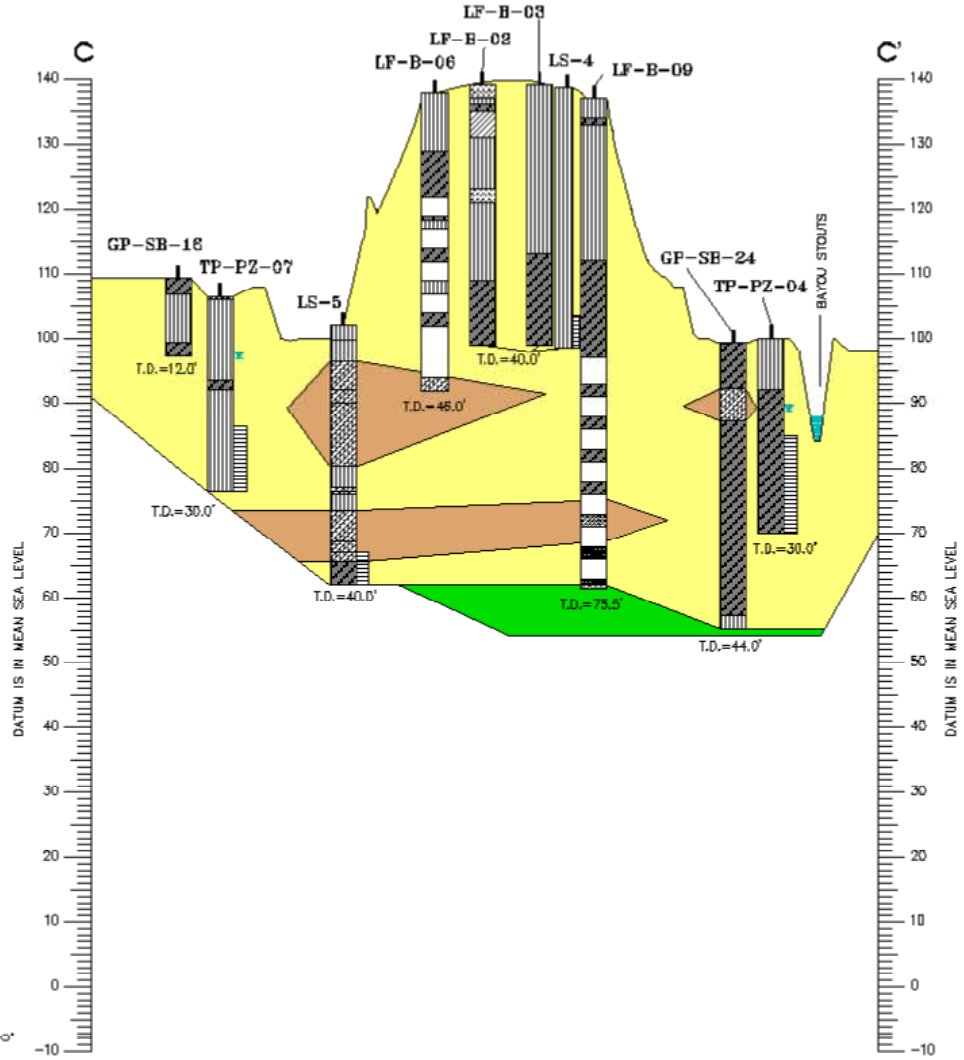
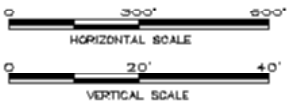
Drawing Date: JAN 22 2008

Figure: 7





EXPLANATION

- SILTY SAND
- SAND
- CLAYEY SAND
- SILTY CLAY
- SANDY CLAY
- CLAY
- SANDY SILT
- FILL
- WASTE
- WATER
- SILT
- CLAYEY SILT
- TOPSOIL
- GRAVEL
- MARL

- LOW PERMEABLE MATERIAL (CLAY, SILTY CLAY, AND SANDY CLAY)
- PERMEABLE MATERIAL (SAND, SILT, SANDY SILT, SILTY SAND, CLAYEY SILT, AND CLAYEY SAND)
- MARL
- WATER LEVEL ELEVATION (FT. M.S.L.)
- SCREEN INTERVAL
- GP-SB-24 MONITOR WELL/BORING LOCATION & DESIGNATION
- T.D.=44.0' TOTAL DEPTH

NOTES:

BAYOU WATER LEVEL ELEVATIONS ASSUMED TO BE 88 FT. M.S.L. BASED ON PREVIOUS STUDIES.

WATER LEVEL ELEVATION FROM JANUARY 9, 2007.

TOPOGRAPHY DATA DEPICTED ON THIS MAP ARE BASED ON AERIAL PHOTOGRAMMETRY OBTAINED IN FEBRUARY 2002. DATA ARE NOT SURVEY GRADE DATA.

BORING/PIEZOMETER/MONITOR WELL ELEVATION DATA OBTAINED FROM DIMCO DATED 2006 AND 2007.

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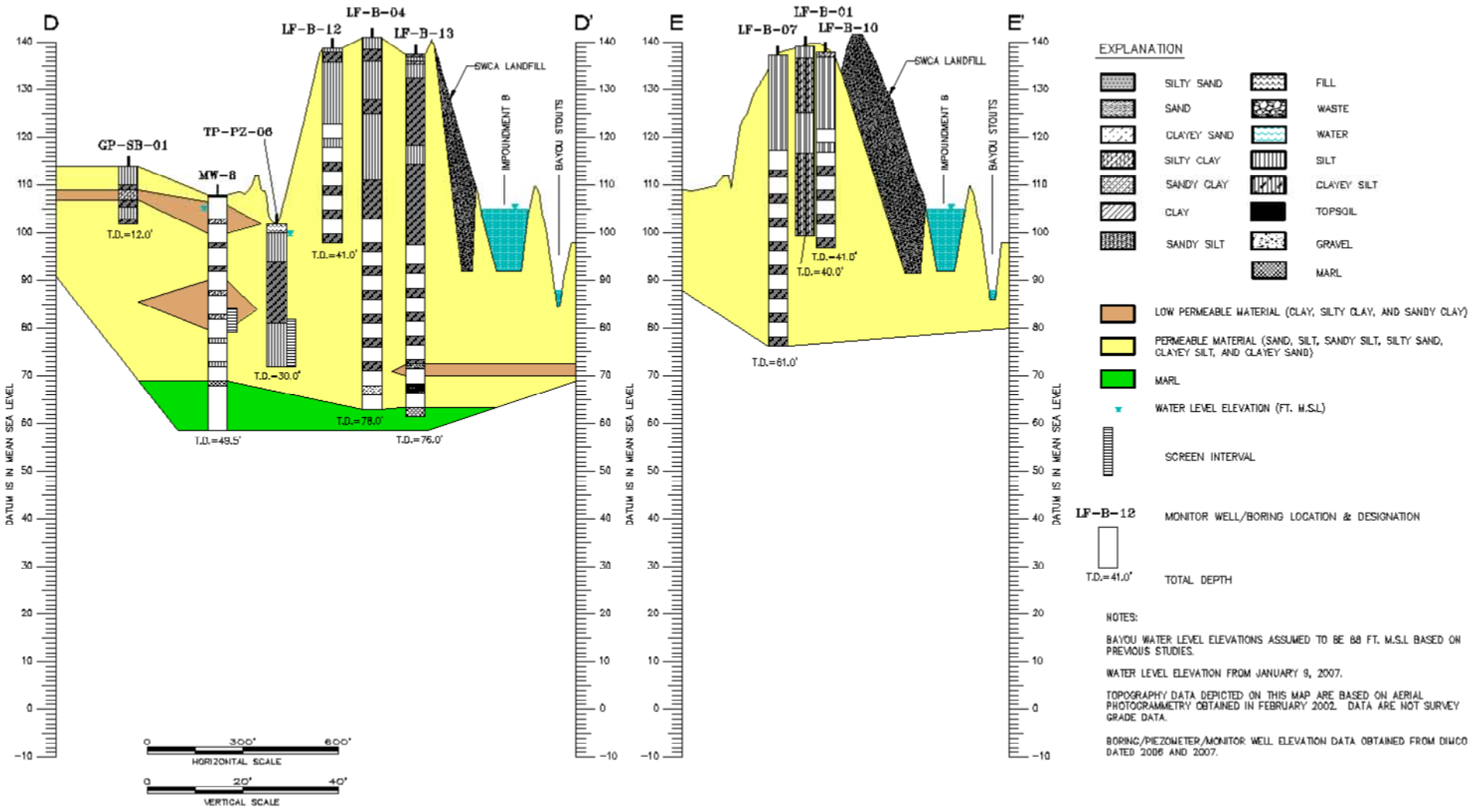
Cross-Section C-C'

VICKSBURG CHEMICAL COMPANY
VICKSBURG, MISSISSIPPI

Project Number: LA002656.0001

Drawing Date: JAN 22 2008

Figure: 8



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Cross-Sections D-D' and E-E'

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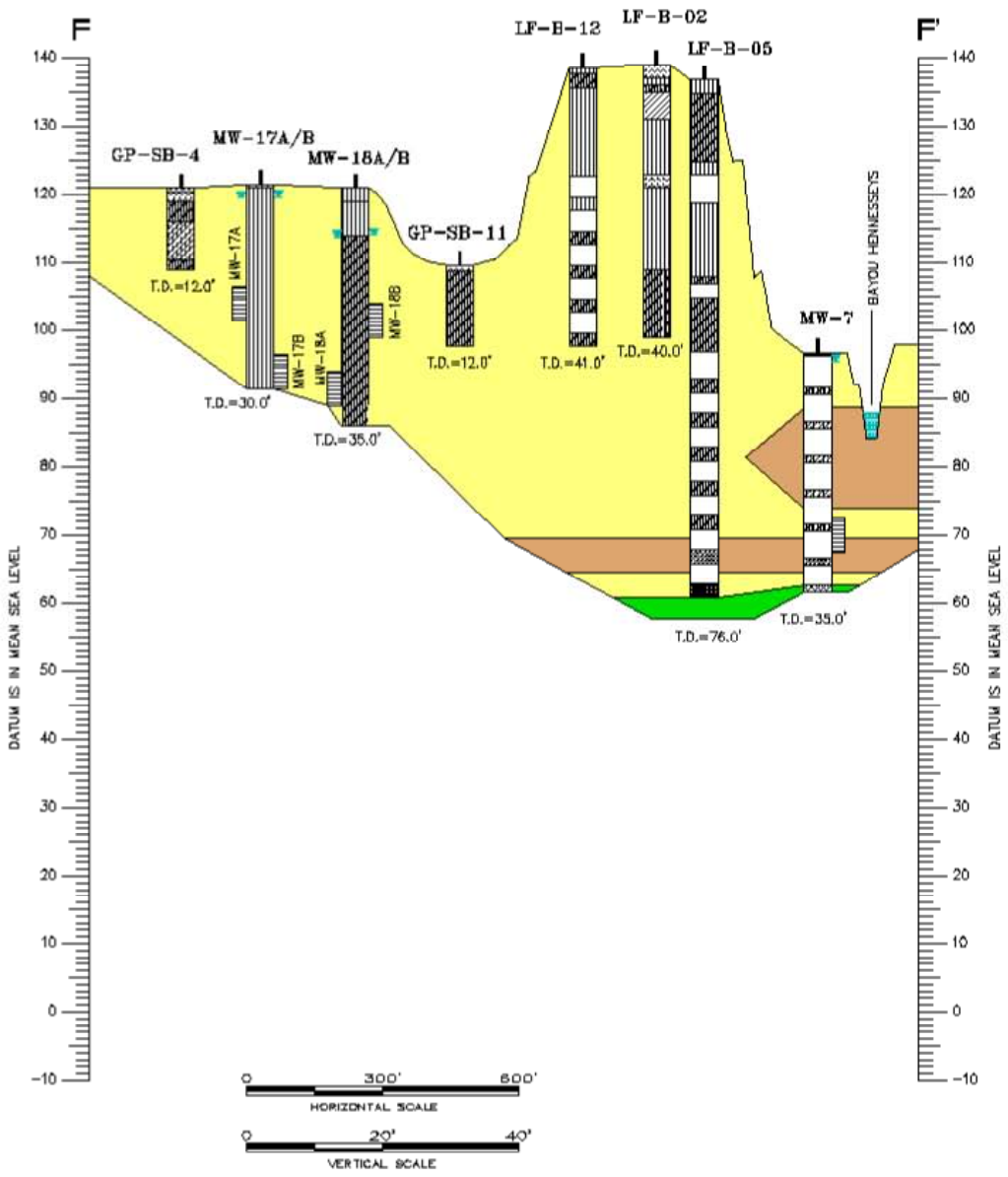
VICKSBURG, MISSISSIPPI

Project Number
LA002656.0001

Drawing Date
JAN 22 2008

Figure
9



EXPLANATION

SILTY SAND	FILL
SAND	WASTE
CLAYEY SAND	WATER
SILTY CLAY	SILT
SANDY CLAY	CLAYEY SILT
CLAY	TOPSOIL
SANDY SILT	GRAVEL
	MARL

LOW PERMEABLE MATERIAL (CLAY, SILTY CLAY, AND SANDY CLAY)

PERMEABLE MATERIAL (SAND, SILT, SANDY SILT, SILTY SAND, CLAYEY SILT, AND CLAYEY SAND)

MARL

WATER LEVEL ELEVATION (FT. M.S.L)

SCREEN INTERVAL

MW-7 MONITOR WELL/BORING LOCATION & DESIGNATION

T.D.=35.0' TOTAL DEPTH

NOTES:

BAYOU WATER LEVEL ELEVATIONS ASSUMED TO BE 88 FT. M.S.L BASED ON PREVIOUS STUDIES.

WATER LEVEL ELEVATION FROM JANUARY 9, 2007.

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BORING/PIEZOMETER/MONITOR WELL ELEVATION DATA OBTAINED FROM DIMCO DATED 2006 AND 2007.

SCREENED INTERVALS FOR MW-17A/B AND MW-18A/B ASSUMED TO BE 5 FEET.

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Cross-Section F-F'

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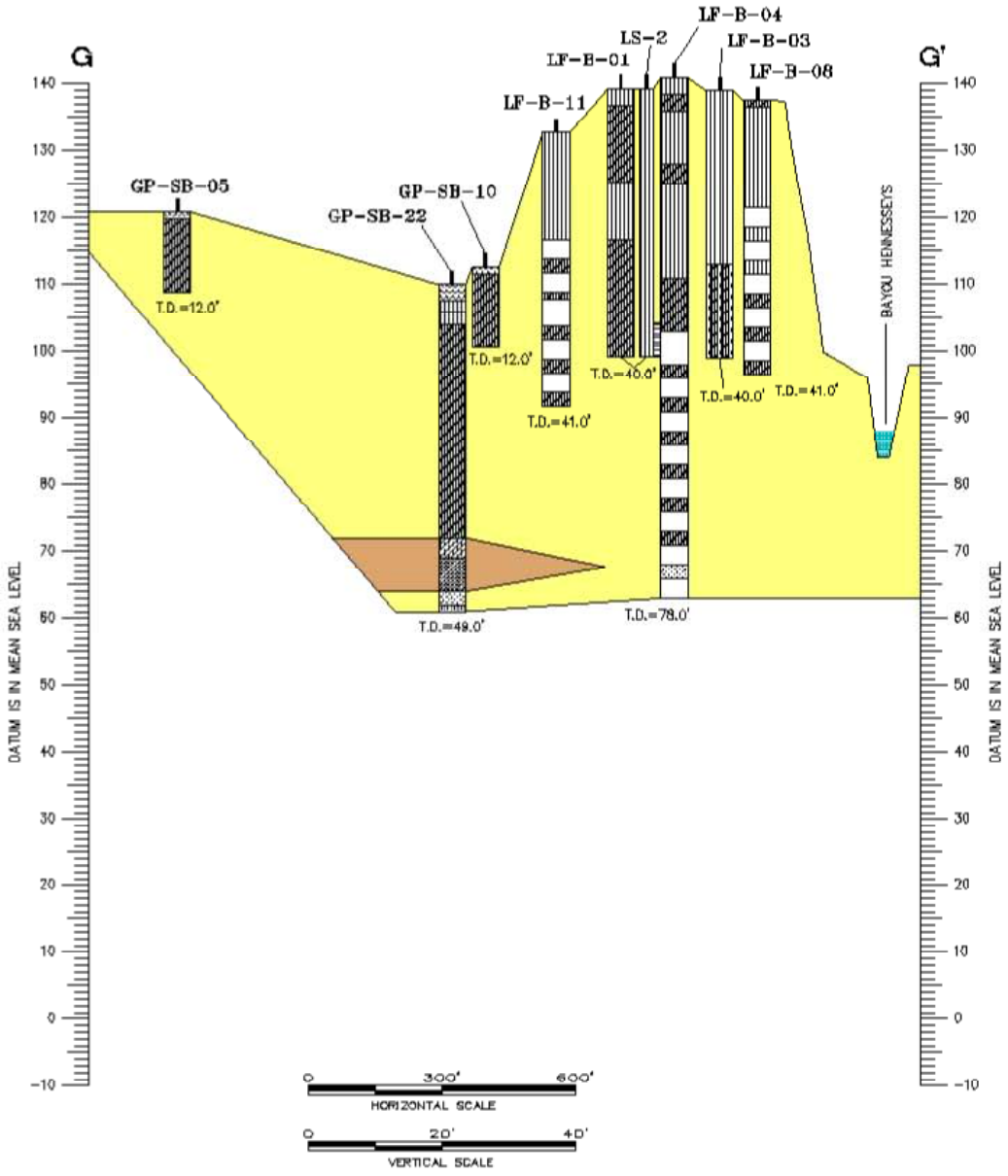
VICKSBURG, MISSISSIPPI

Project Number: LA002656.0001

Drawing Date: JAN 22 2008

Figure: 10



EXPLANATION

- SILTY SAND
- SAND
- CLAYEY SAND
- SILTY CLAY
- SANDY CLAY
- CLAY
- SANDY SILT
- FILL
- WASTE
- WATER
- SILT
- CLAYEY SILT
- TOPSOIL
- GRAVEL
- MARL

- LOW PERMEABLE MATERIAL (CLAY, SILTY CLAY, AND SANDY CLAY)
- PERMEABLE MATERIAL (SAND, SILT, SANDY SILT, SILTY SAND, CLAYEY SILT, AND CLAYEY SAND)
- MARL
- WATER LEVEL ELEVATION (FT. M.S.L)
- SCREEN INTERVAL
- LF-B-04 MONITOR WELL/BORING LOCATION & DESIGNATION
- T.D.=78.0' TOTAL DEPTH

NOTES:

BAYOU WATER LEVEL ELEVATIONS ASSUMED TO BE 88 FT. M.S.L BASED ON PREVIOUS STUDIES.

WATER LEVEL ELEVATION FROM JANUARY 9, 2007.

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BORING/PIEZOMETER/MONITOR WELL ELEVATION DATA OBTAINED FROM DIMCO DATED 2006 AND 2007.

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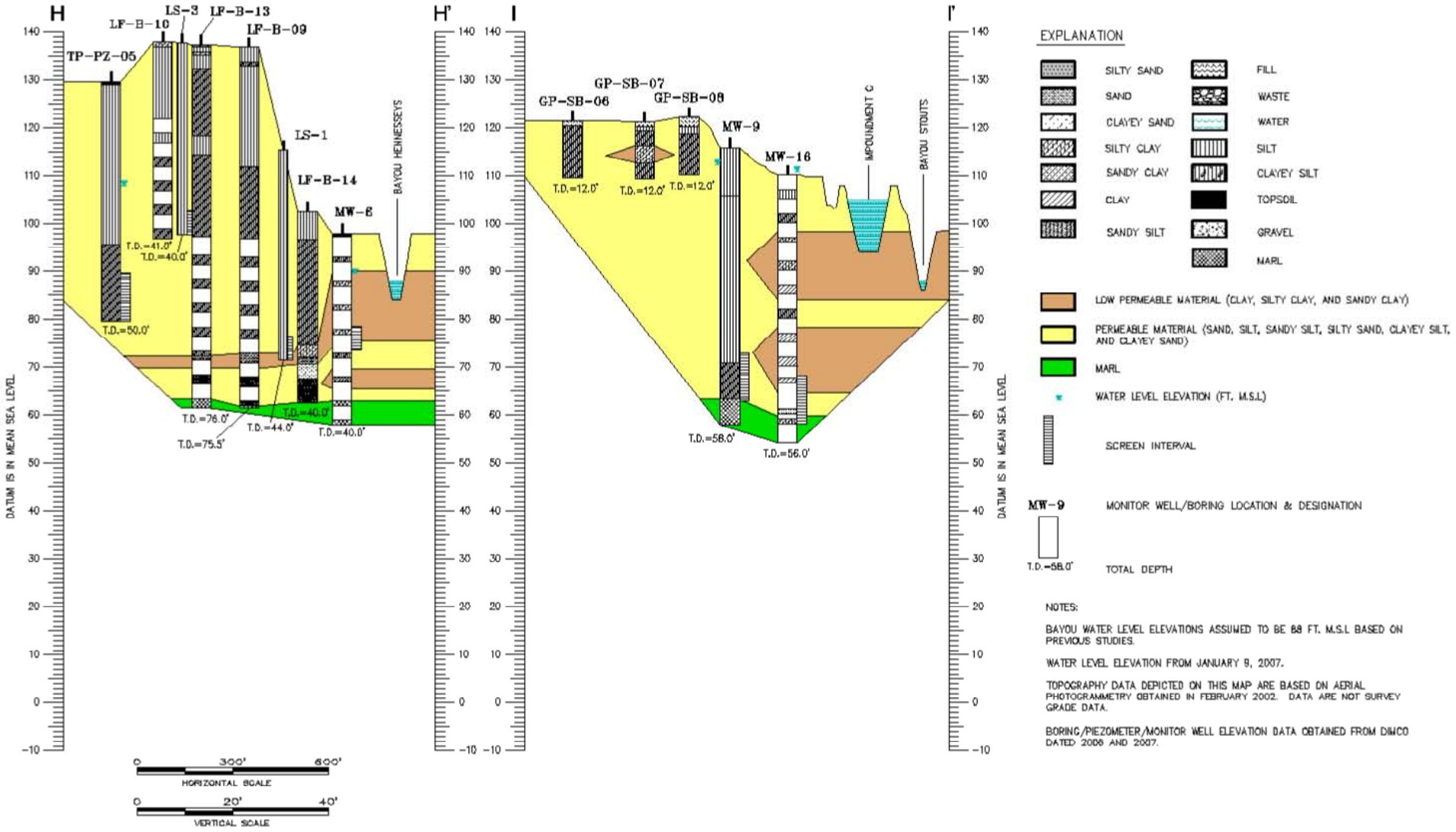
Cross-Section G-G'

VICKSBURG CHEMICAL COMPANY
VICKSBURG, MISSISSIPPI

Project Number: LA002656.0001

Drawing Date: JAN 22 2008

Figure: 11



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Cross-Sections H-H' and I-I'

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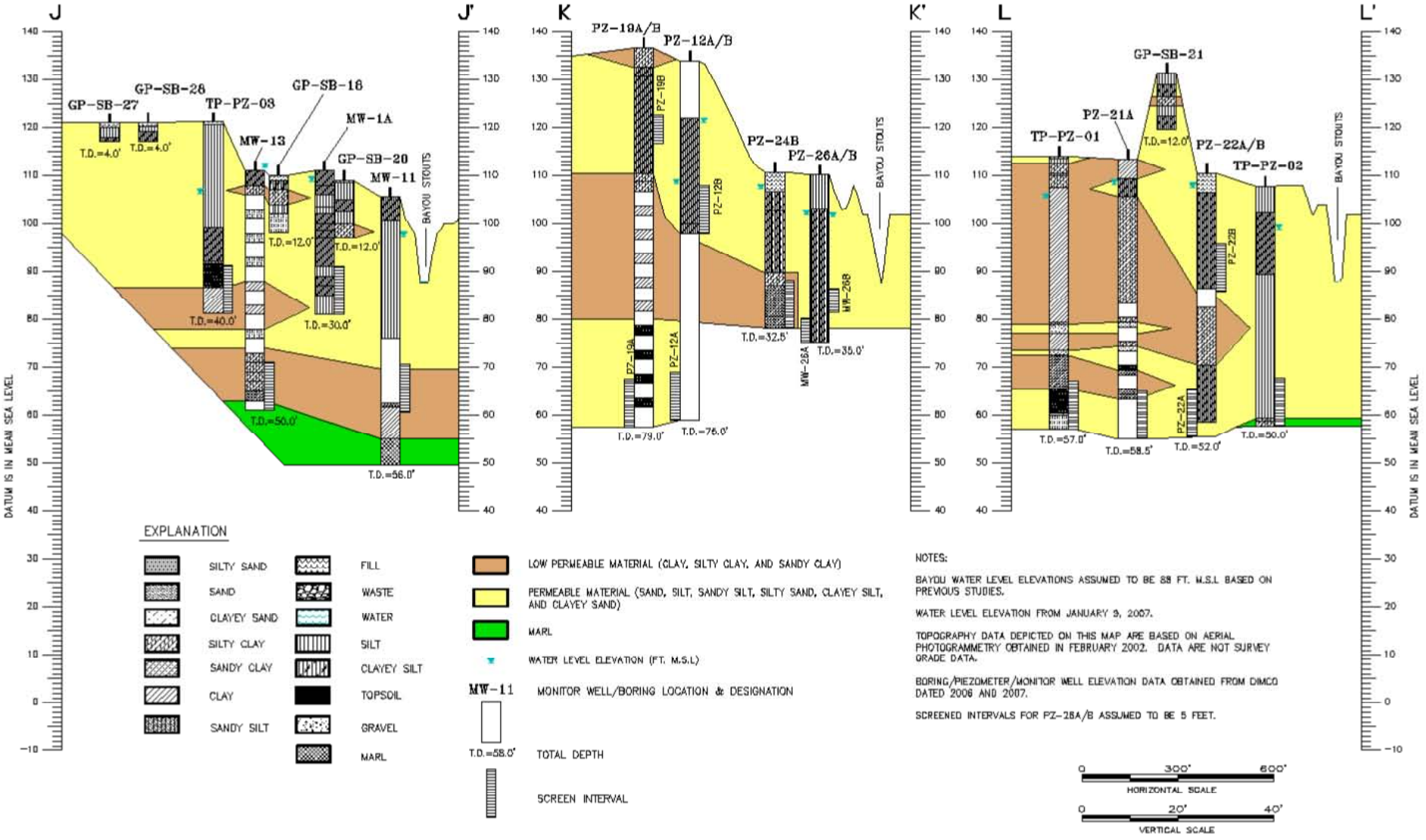
VICKSBURG, MISSISSIPPI

Project Number
LA002656.0001

Drawing Date
JAN 22 2008

Figure
12



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Cross-Sections J-J', K-K', and L-L'

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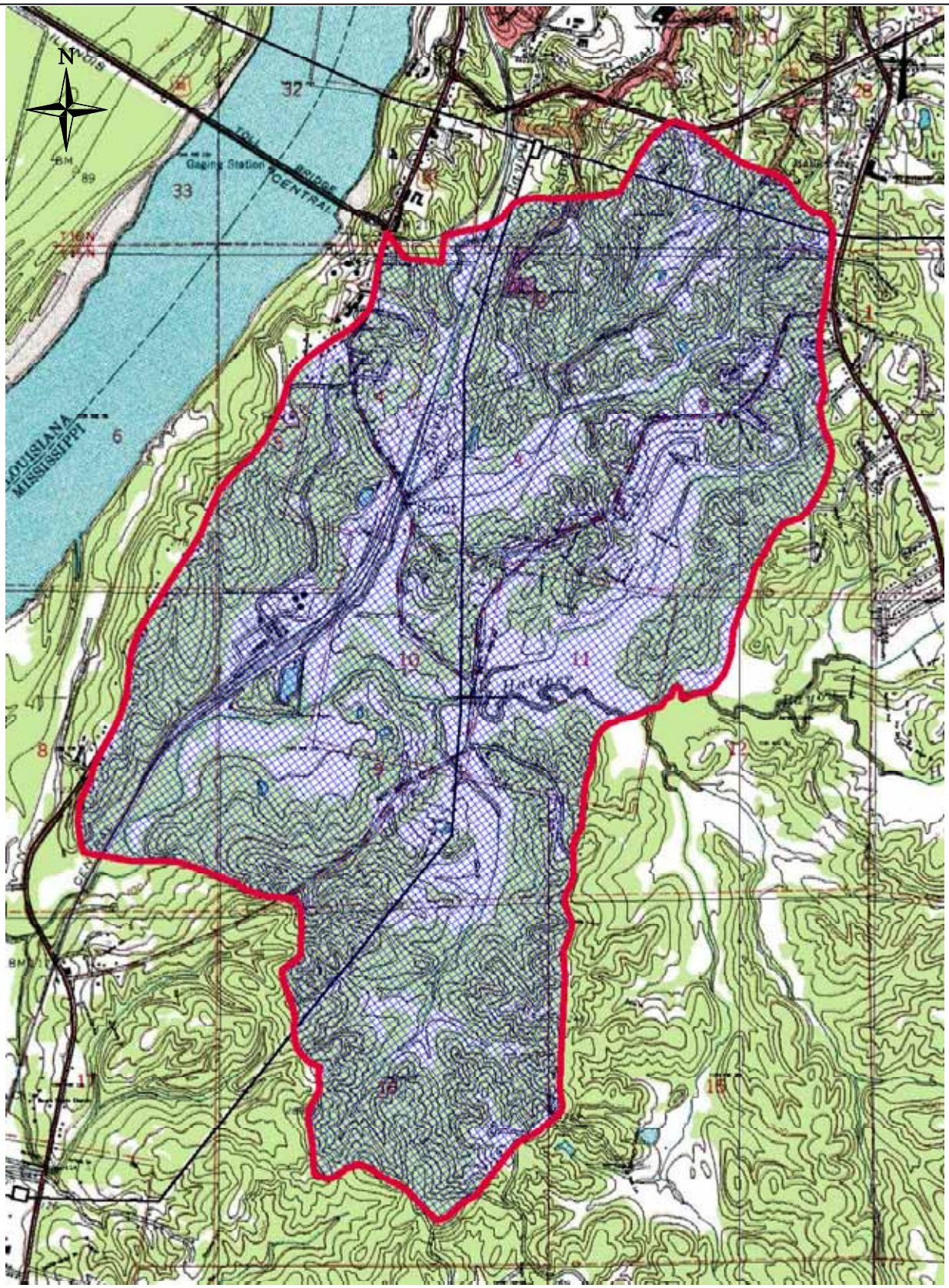
VICKSBURG, MISSISSIPPI

Project Number	LA002656.0001
Drawing Date	JAN 22 2008
Figure	13



Model Domain

0 1000 ft 2000 ft

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Model Domain

VICKSBURG CHEMICAL COMPANY
VICKSBURG, MISSISSIPPI

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LEGEND

- Finite Difference Grid Cell
- Finite Difference Grid Cells Less Than 10 ft Spacing
- No Flow Boundary Cell
- Model Domain Boundary

Scale in ft

0 1000 2000

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Finite Difference Grid

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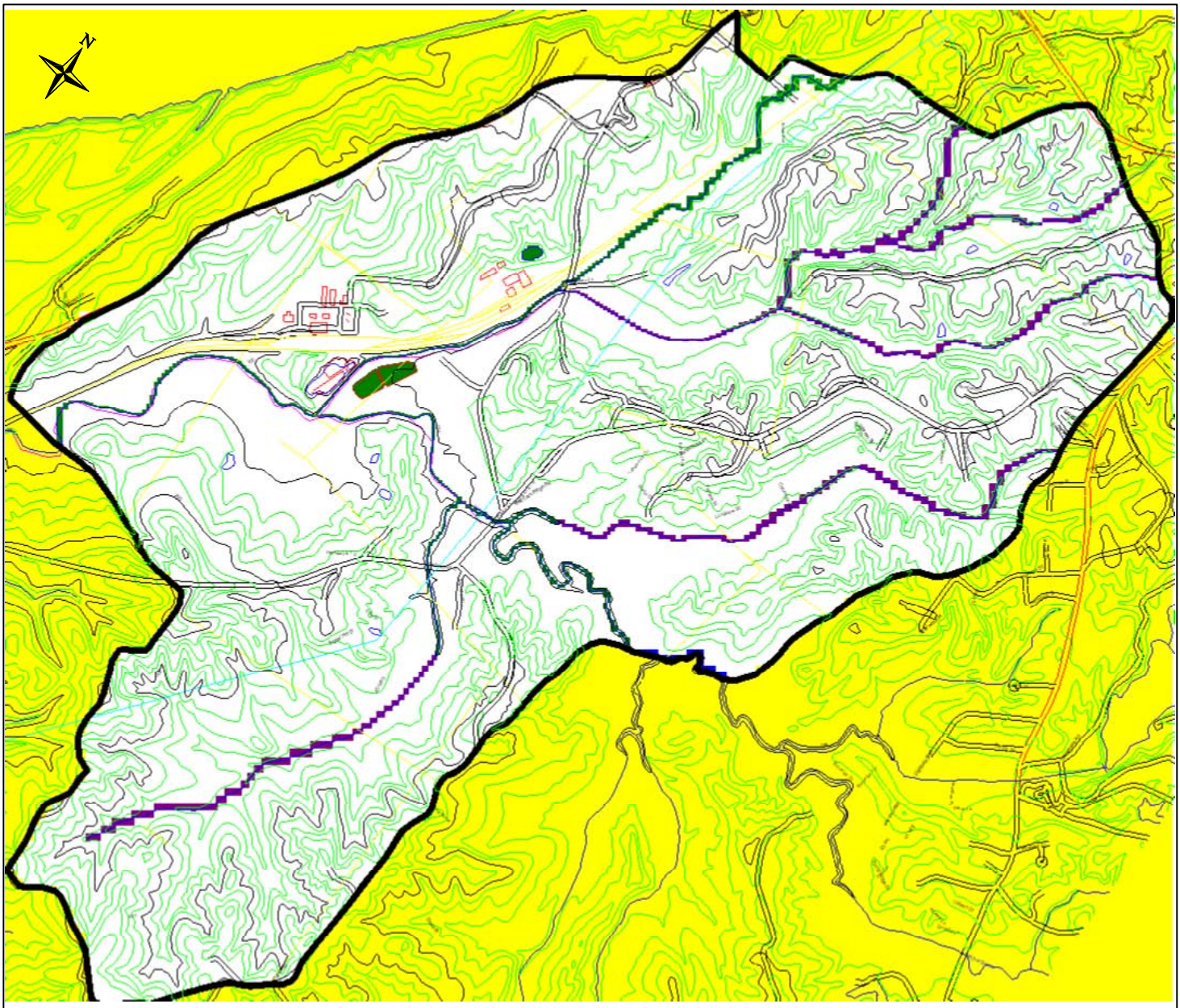
VICKSBURG, MISSISSIPPI

Project Number	LA002656.0001
Drawing Date	22 JAN 2008
Figure	15



LEGEND

- No Flow Boundary Condition
- River Boundary Condition
- Drain Boundary Condition
- Constant Head Boundary Condition

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Model Boundary Conditions

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VICKSBURG, MISSISSIPPI

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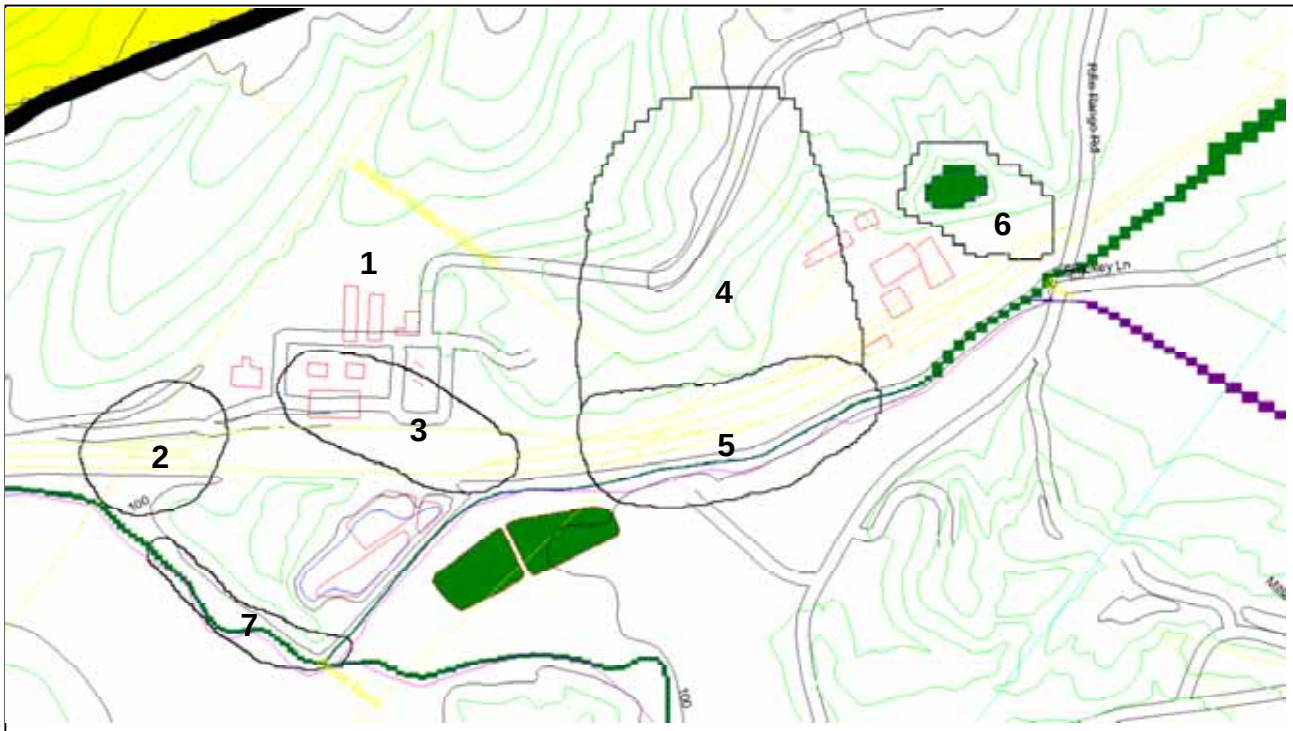
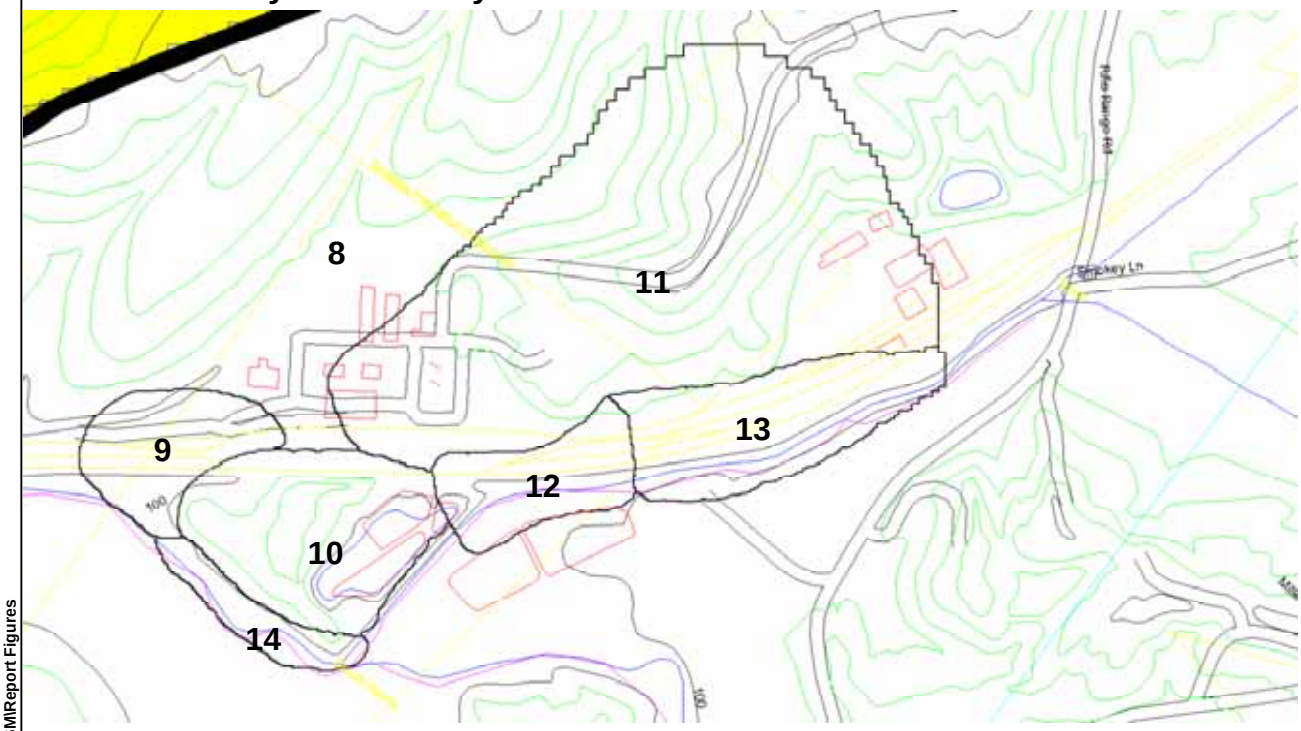
Drawing Date	22 JAN 2008
Figure	16



Conductivity Zones in Layer 1



Conductivity Zones in Layer 2

Horizontal and Vertical Conductivity Zone Values (ft/day)

K1x = 0.1;	K1z = 0.0055;	K2x = 0.075;	K2z = 0.00001;	K3x = 0.01;	K3z = 0.001;
K4x = 0.054;	K4z = 0.00002;	K5x = 0.0064;	K5z = 0.005;	K6x = 0.6;	K6z = 0.006;
K7x = 1.2;	K7z = 0.6;	K8x = 0.54;	K8z = 0.06;	K9x = 2.0;	K9z = 0.06;
K10x = 0.3;	K10z = 0.04;	K11x = 0.84;	K11z = 0.0006;	K12x = 0.18;	K12z = 0.01;
K13x = 0.54;	K13z = 0.005;	K14x = 1.2;	K14y = 0.6		

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Conductivity Zones and Values in Model Layers 1 and 2

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Drawing Date	22 JAN 2008
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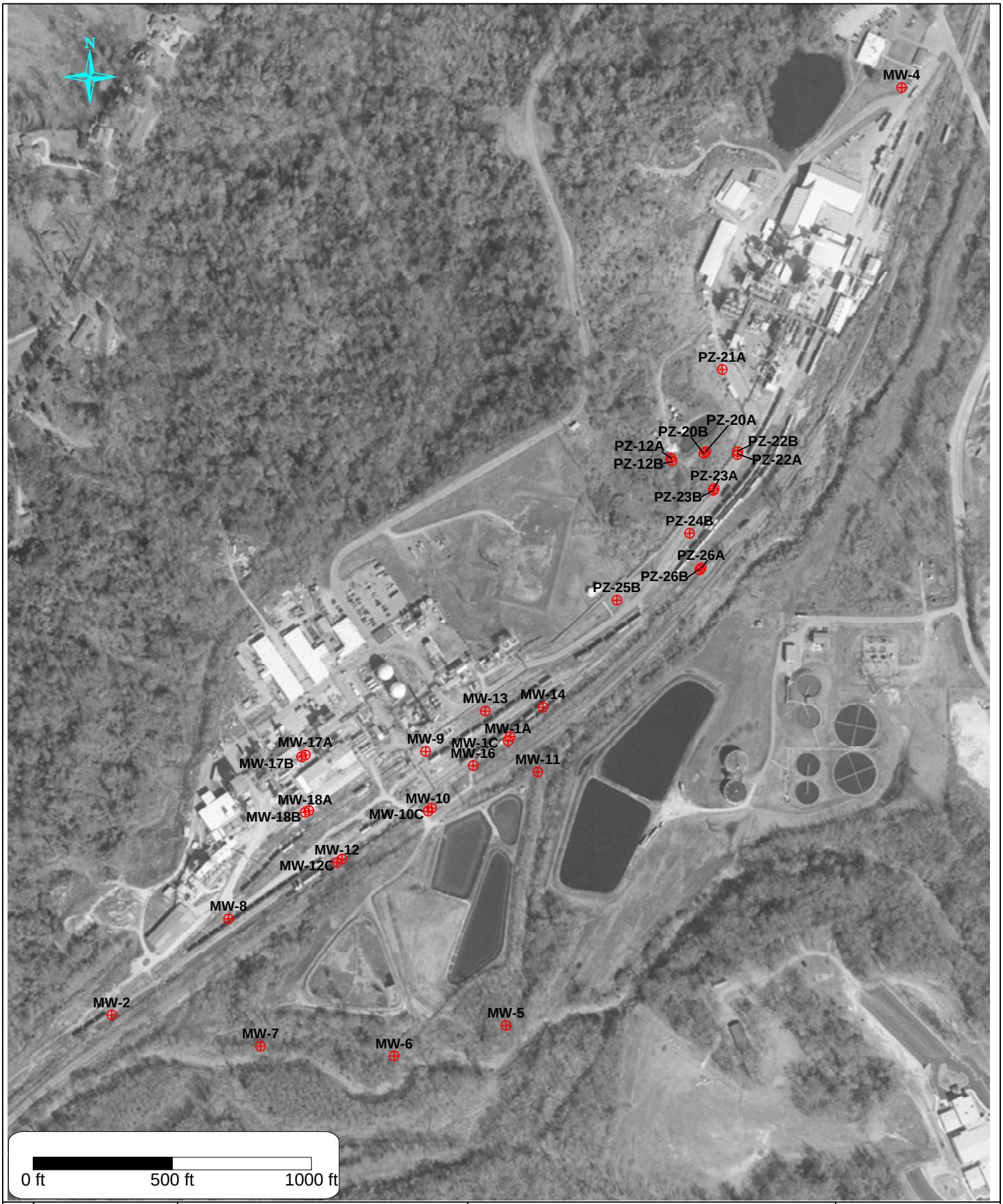

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Monitoring Wells and Piezometers

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VICKSBURG, MISSISSIPPI

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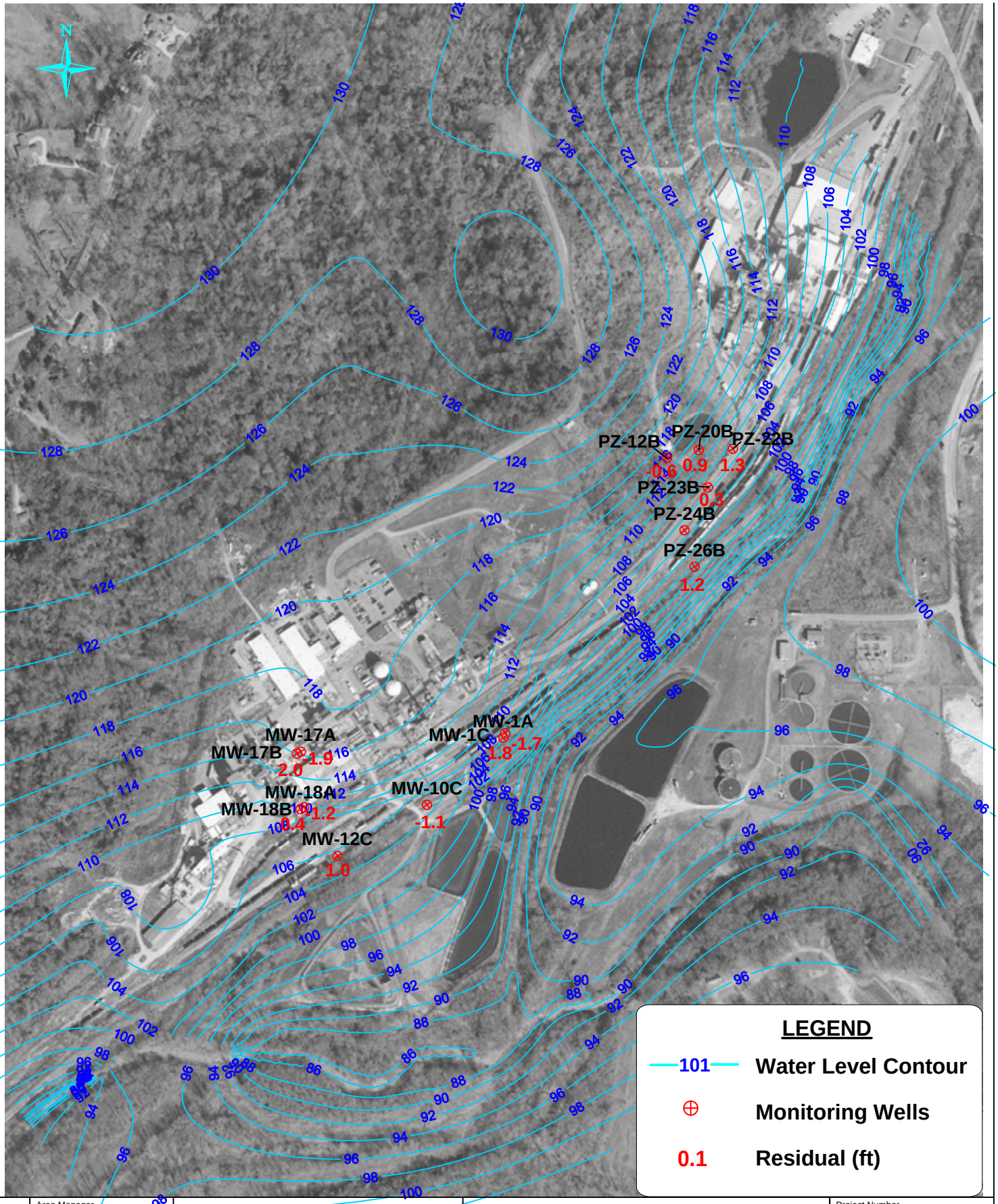
Figure	18



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Simulated Water Levels and Residuals in Layer 1

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VICKSBURG, MISSISSIPPI

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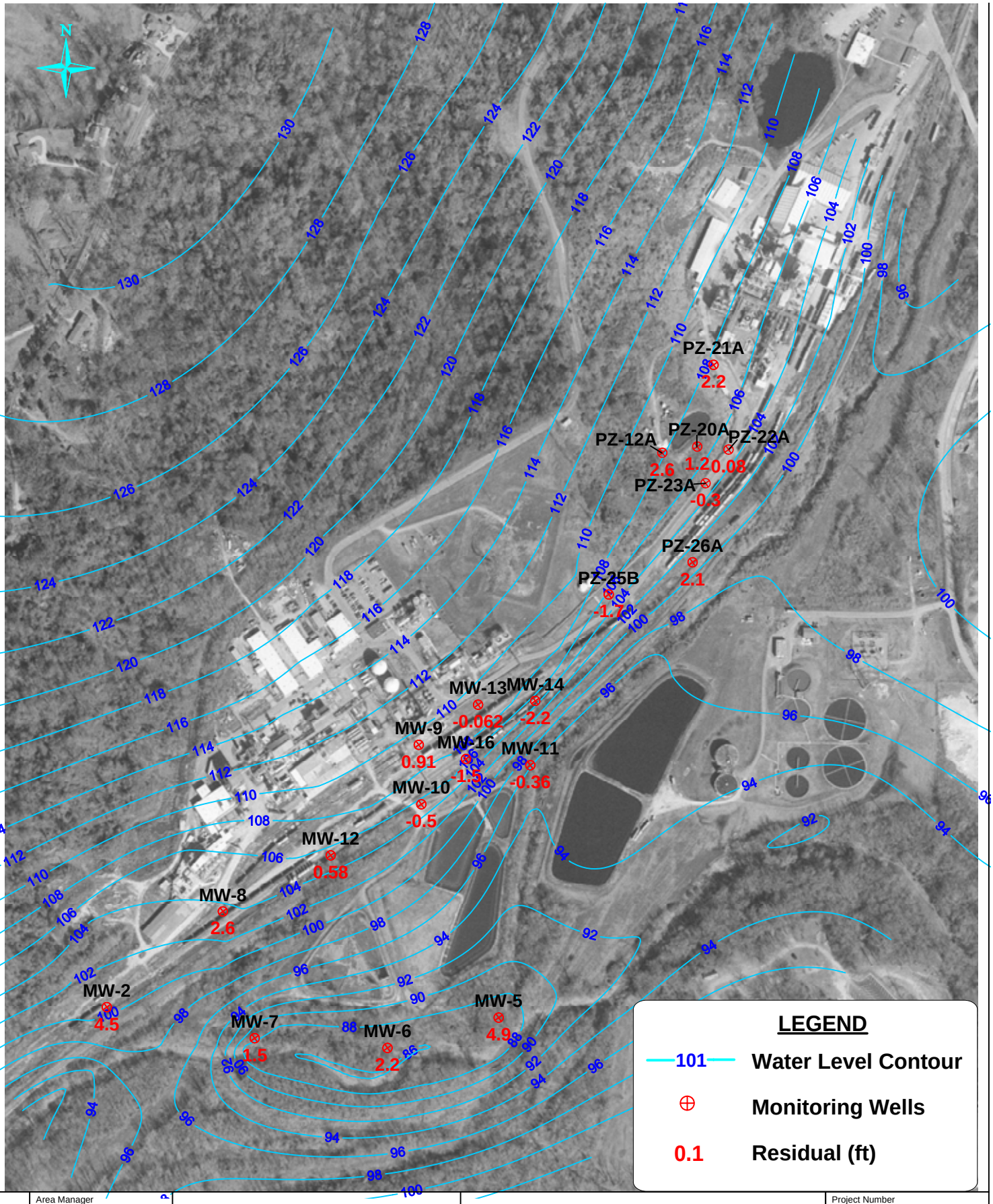
Drawing Date	22 JAN 2008
Figure	19



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Simulated Water Levels and Residuals in Layer 2

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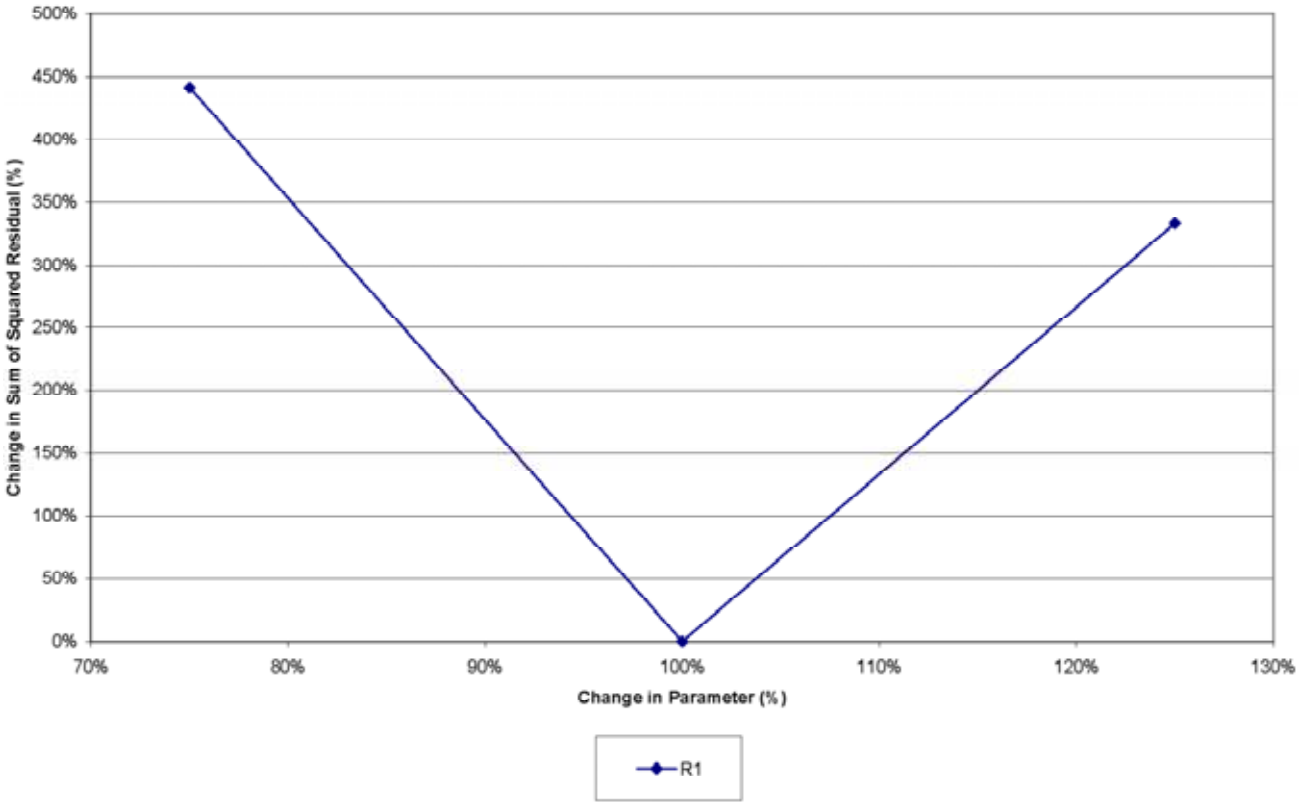
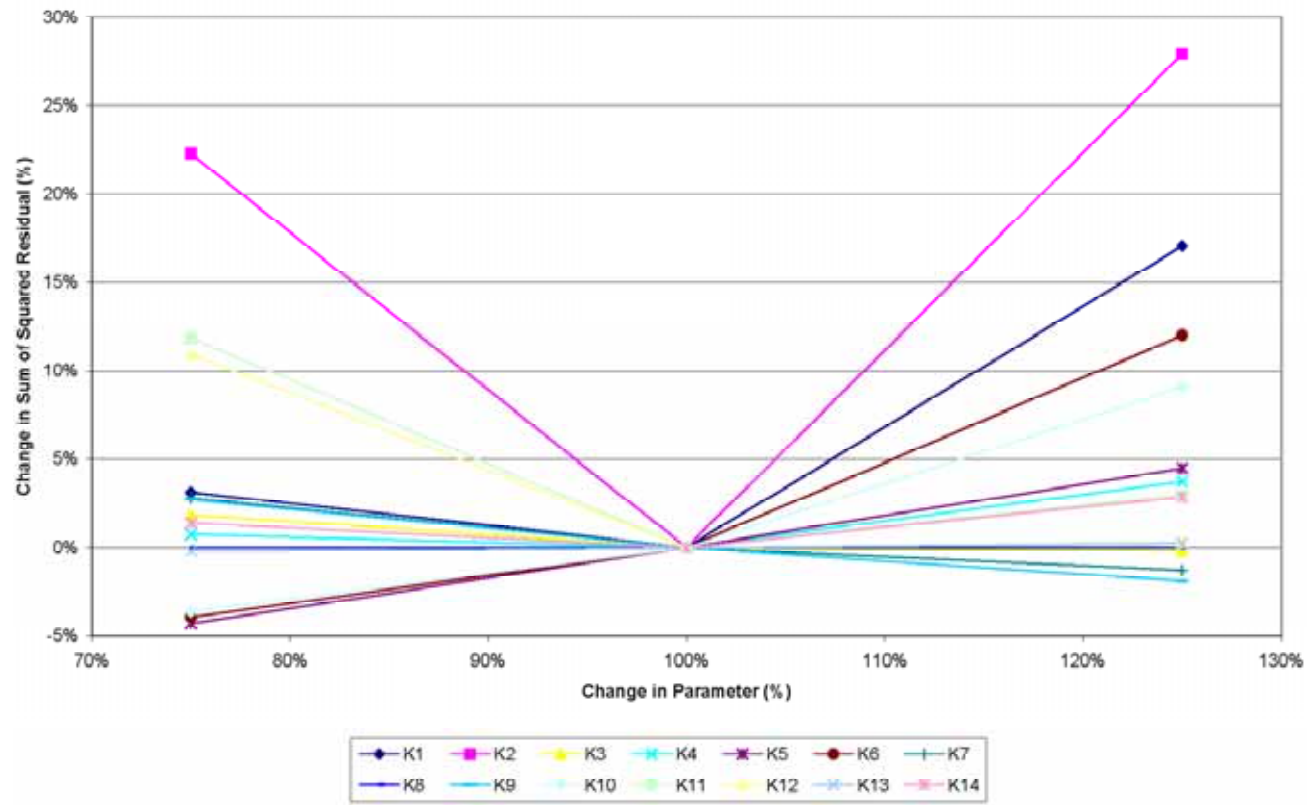
VICKSBURG, MISSISSIPPI

Project Number	LA002656.0001
Drawing Date	22 JAN 2008
Figure	20



Sensitivity Test to Recharge Value



Sensitivity Test to Conductivity Zone Value

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Sensitivity Test of Flow Model Parameters - Recharge and Conductivity

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VICKSBURG, MISSISSIPPI

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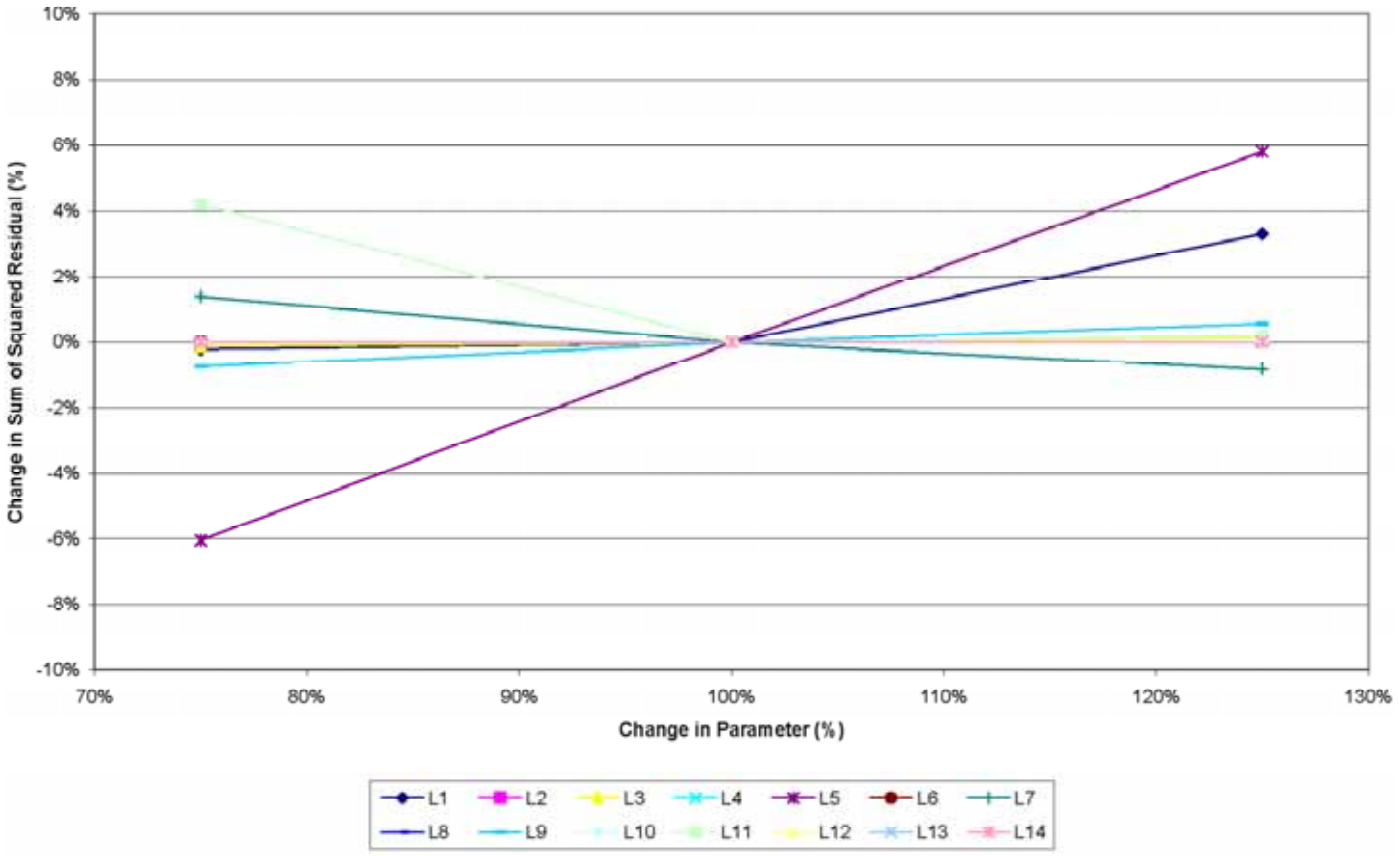
Drawing Date	22 JAN 2008
Figure	21



Sensitivity Test to Vertical Leakance

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Sensitivity Test of Flow Model Parameters - Vertical Leakance

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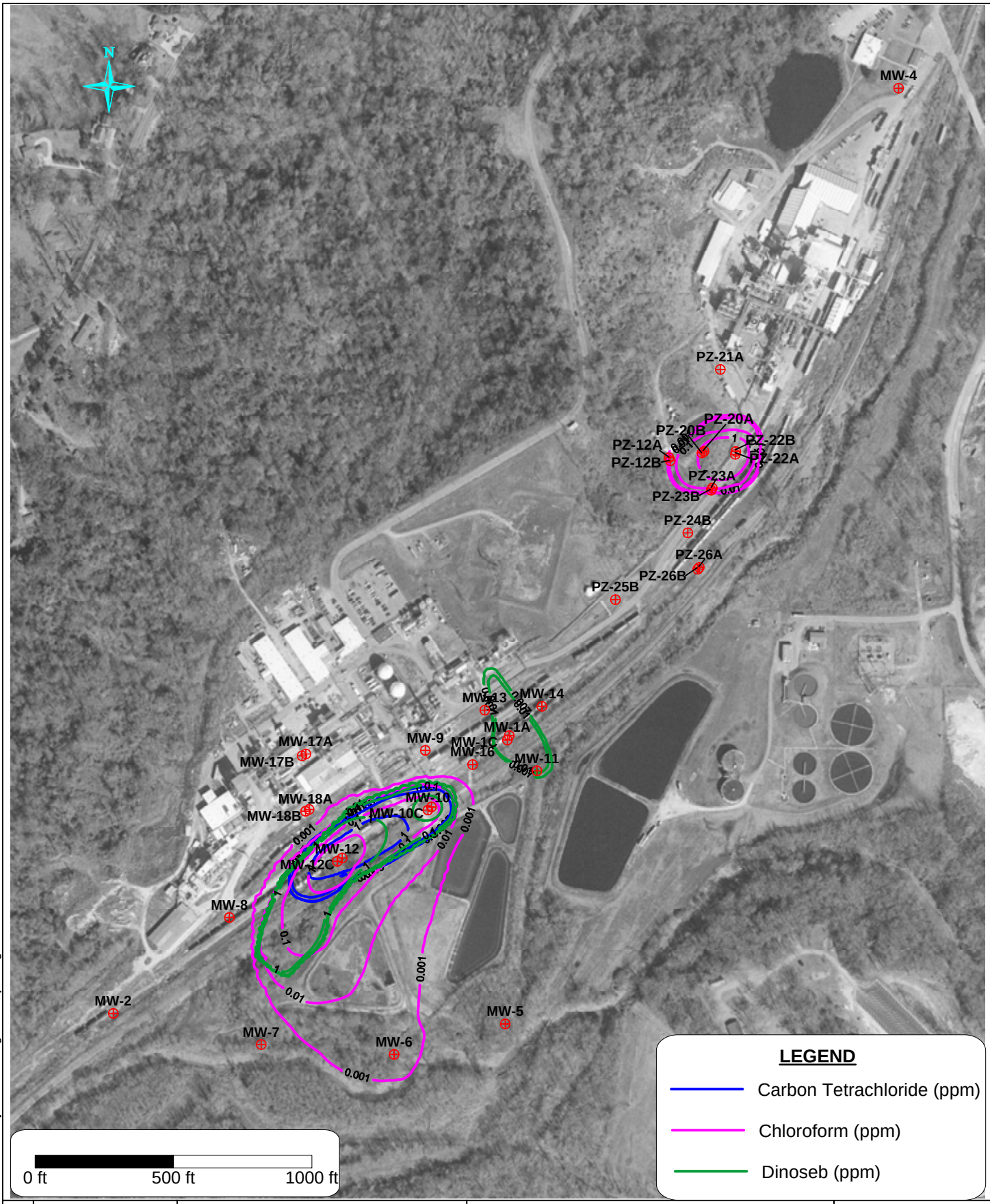
VICKSBURG, MISSISSIPPI

Project Number	LA002656.0001
Drawing Date	22 JAN 2008
Figure	22



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Plume Contours for Carbon Tetrachloride, Chloroform, and Dinoseb

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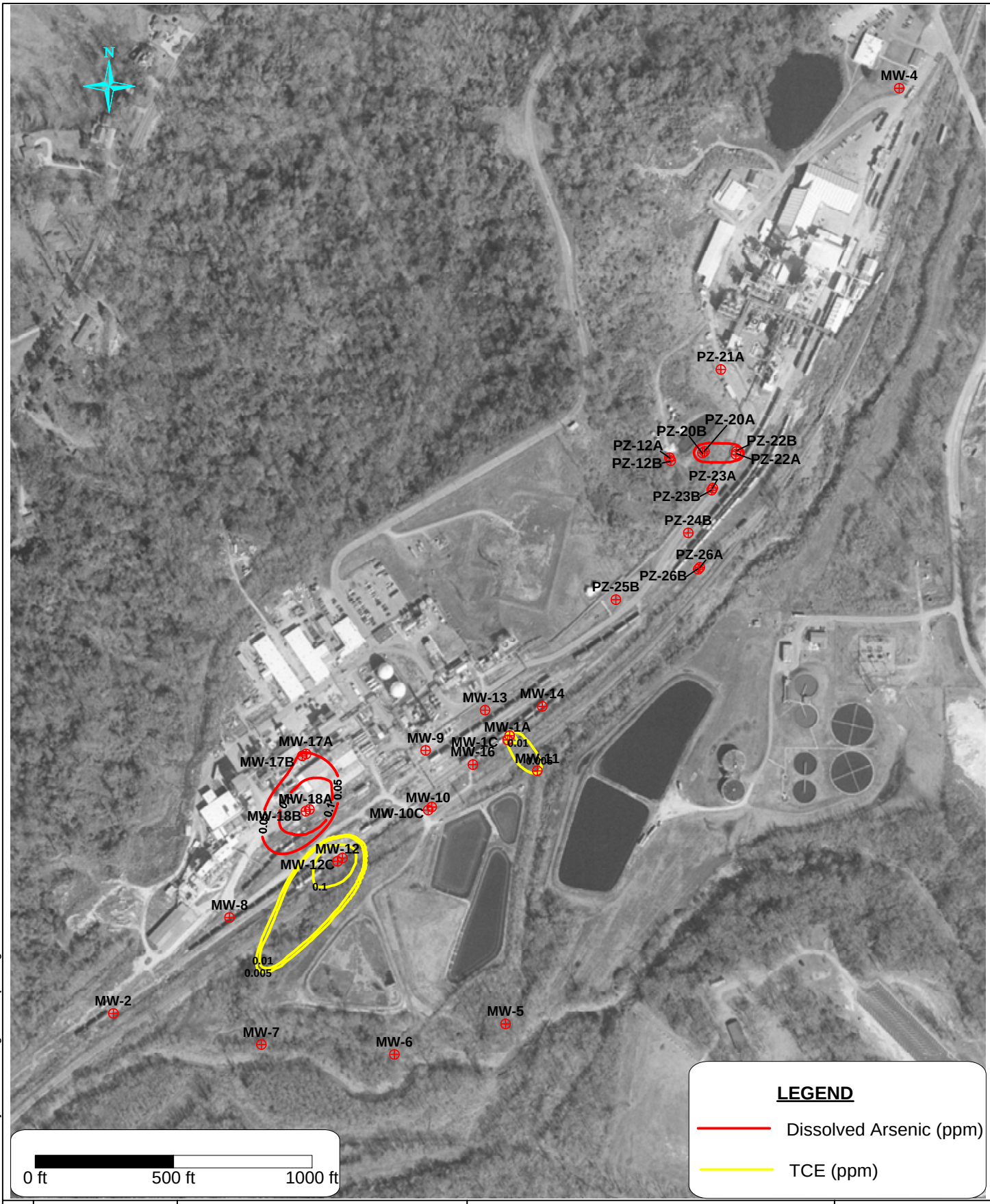
VICKSBURG, MISSISSIPPI

Project Number	LA002656.0001
Drawing Date	22 JAN 2008
Figure	23



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Plume Contours for Dissolved Arsenic and TCE

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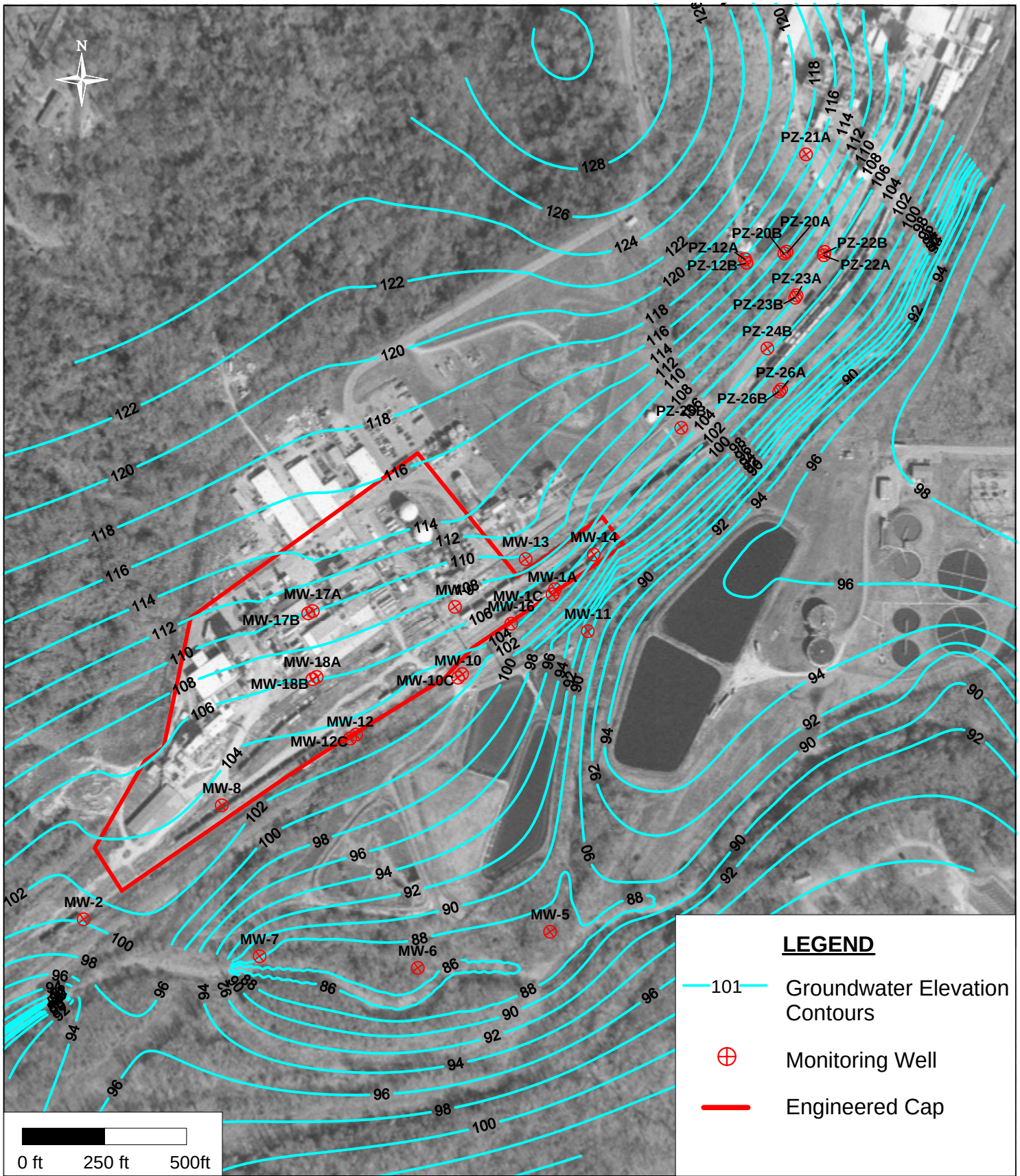
VICKSBURG, MISSISSIPPI

Project Number	LA002656.0001
Drawing Date	22 JAN 2008
Figure	24



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Simulated Groundwater Elevation in Layer 1, Scenario 1

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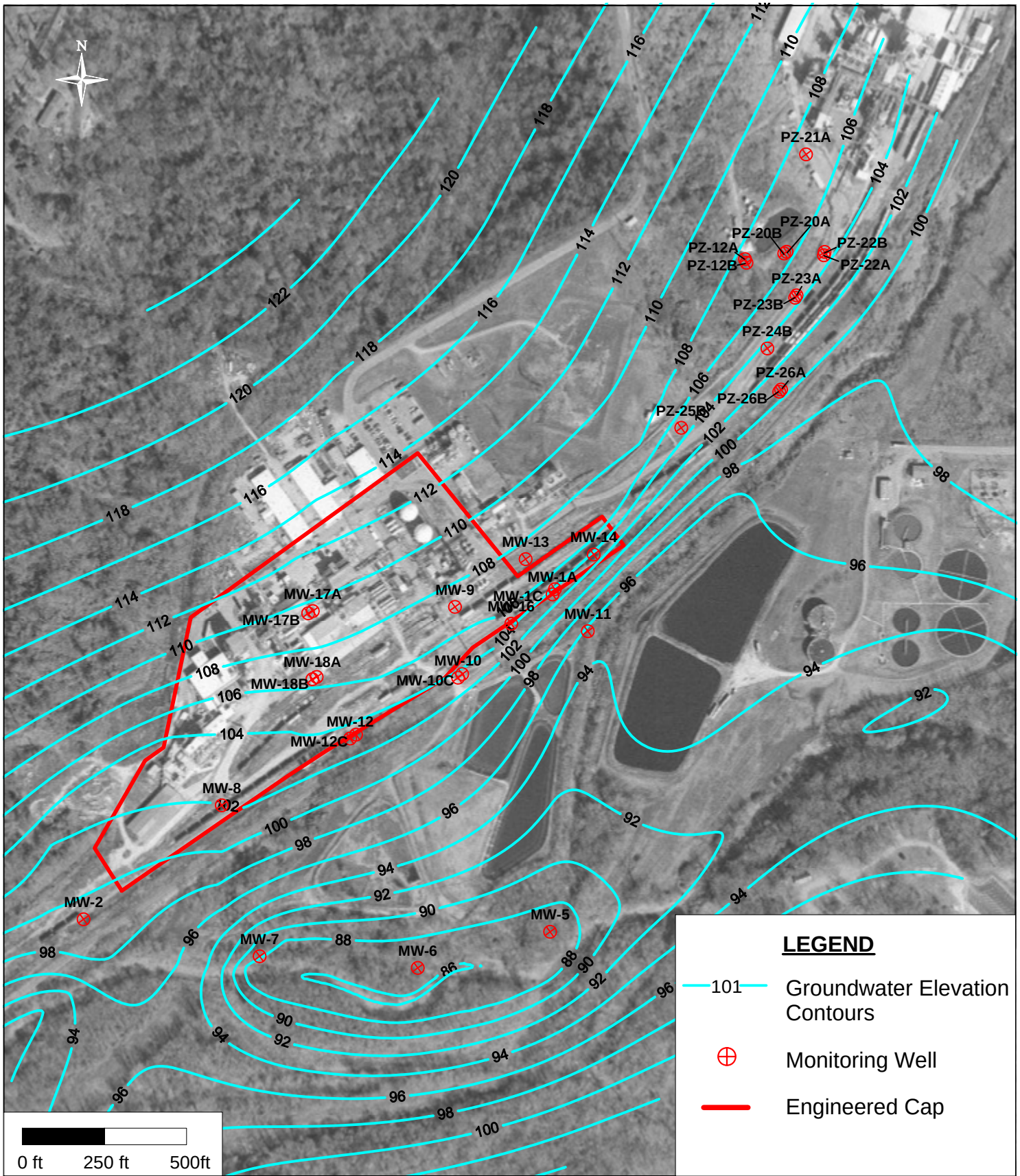
VICKSBURG, MISSISSIPPI

Project Number	LA002656.0001
Drawing Date	22 JAN 2008
Figure	25



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Simulated Groundwater Elevation in Layer 2, Scenario 1

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VICKSBURG, MISSISSIPPI

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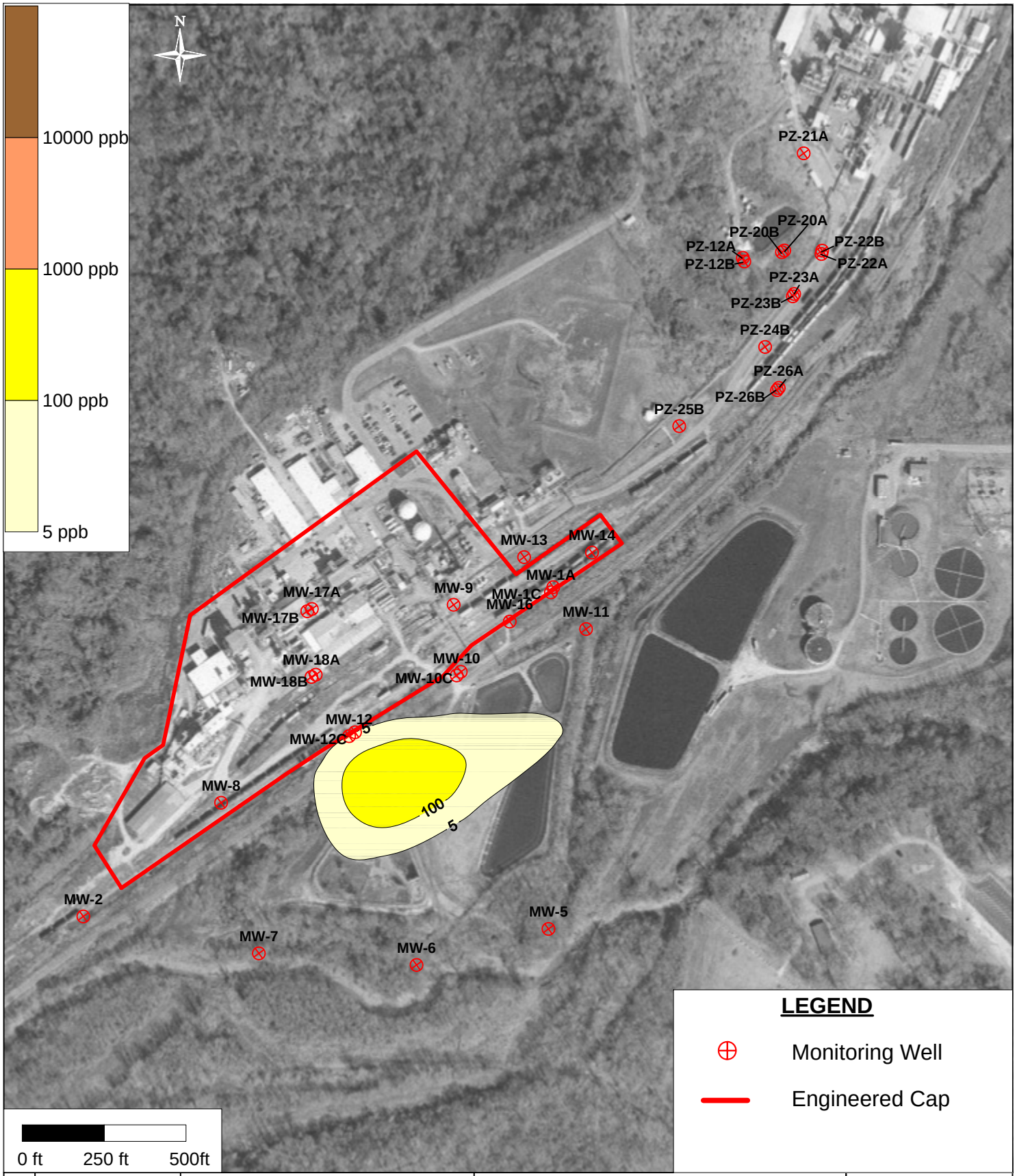
Figure	26



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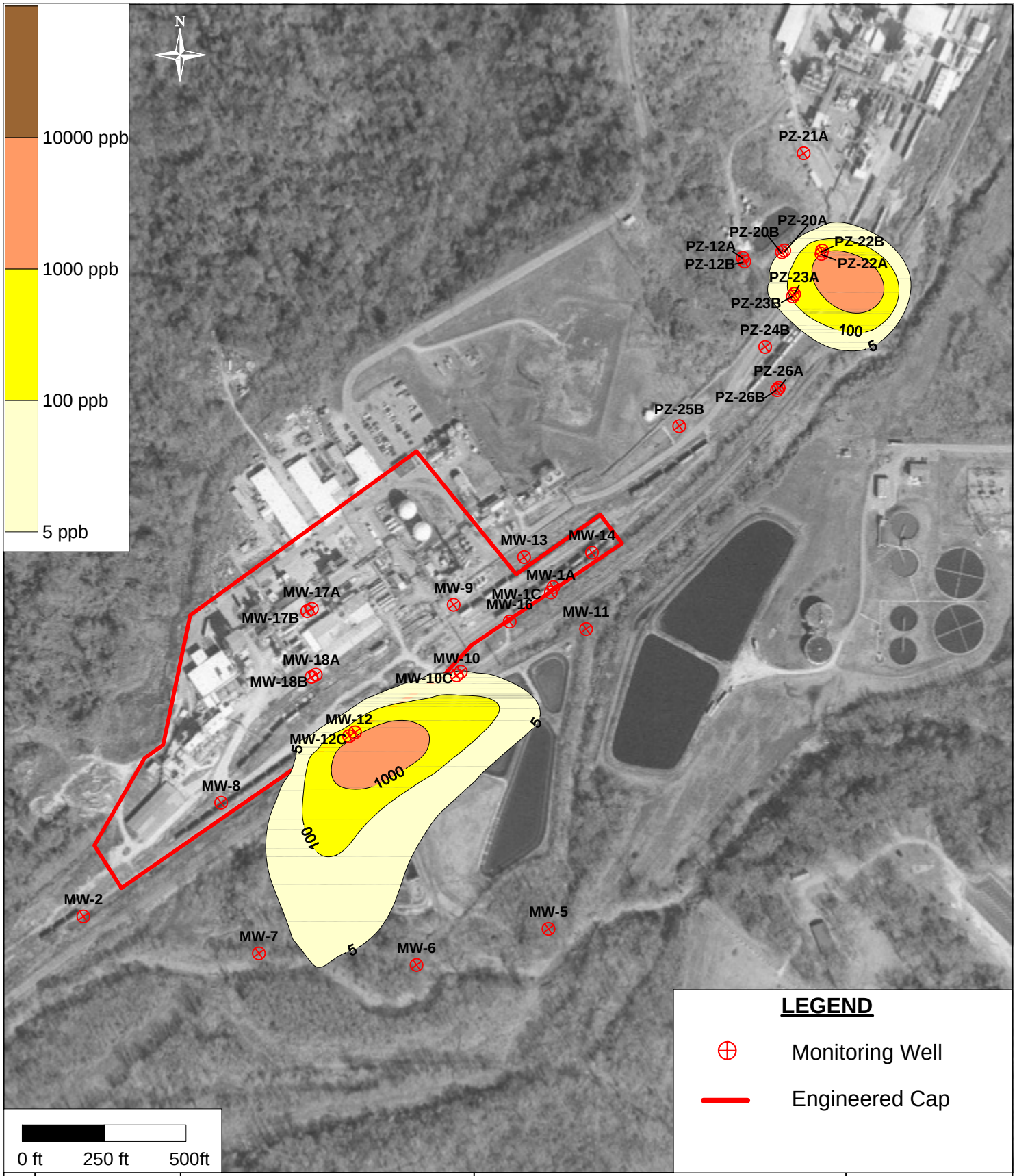
Maximum Extent of Carbon Tetrachloride Concentrations near Surface Water Layer 2, Year 30, Scenario 1

VICKSBURG CHEMICAL COMPANY
VICKSBURG, MISSISSIPPI

Project Number	LA002656.0001
Drawing Date	22 JAN 2008
Figure	27



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First Occurrence of Chloroform Discharge to Surface Water, Layer 2, Year 15, Scenario 1

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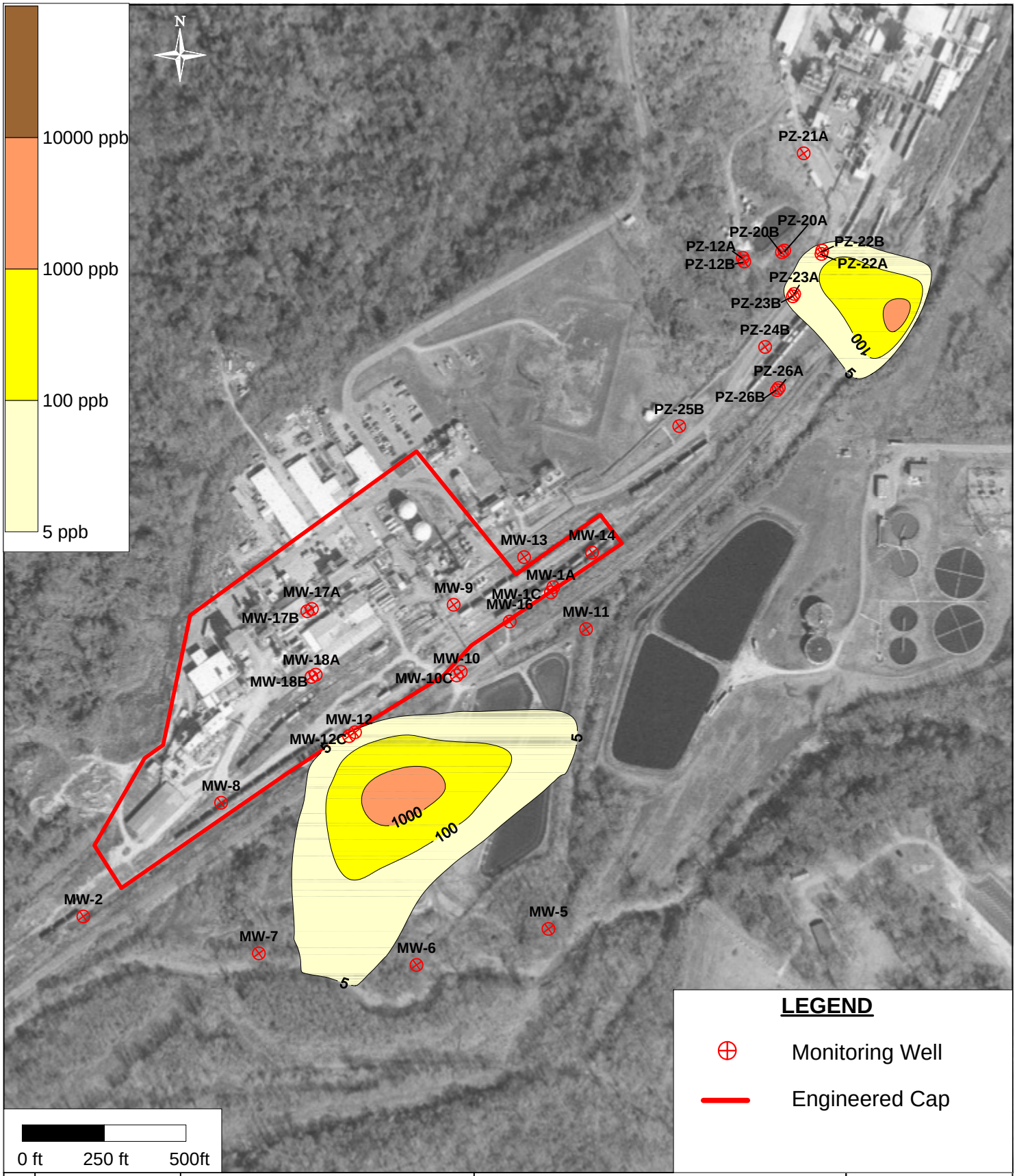
VICKSBURG, MISSISSIPPI

Project Number	LA002656.0001
Drawing Date	22 JAN 2008
Figure	28



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Second Occurrence of Chloroform Discharge to Surface Water, Layer 2, Year 40, Scenario 1

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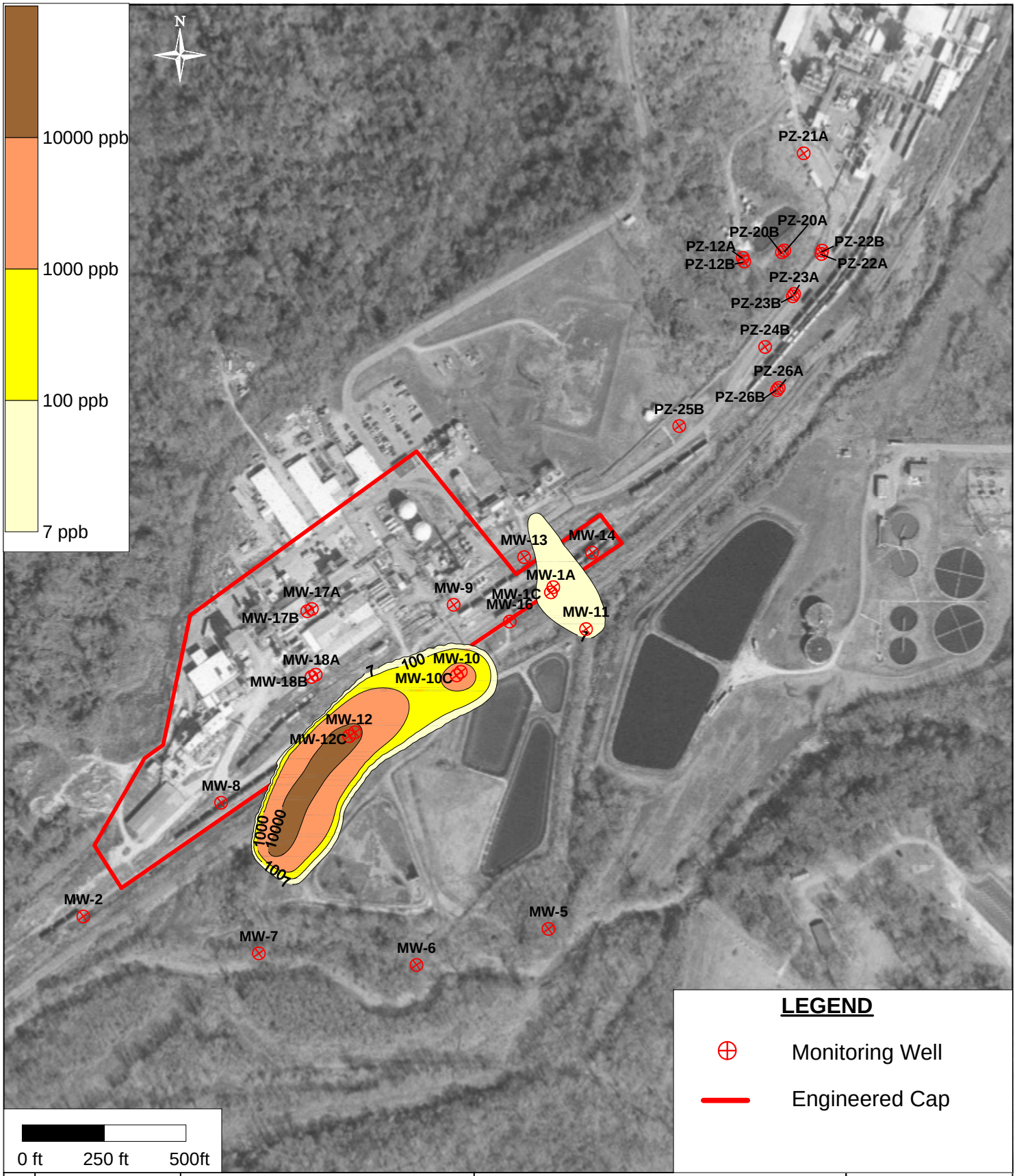
Project Number	LA002656.0001
Drawing Date	22 JAN 2008
Figure	29



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First Occurrence of Dinoseb Discharge to Surface Water, Layer 2, Year 1, Scenario 1

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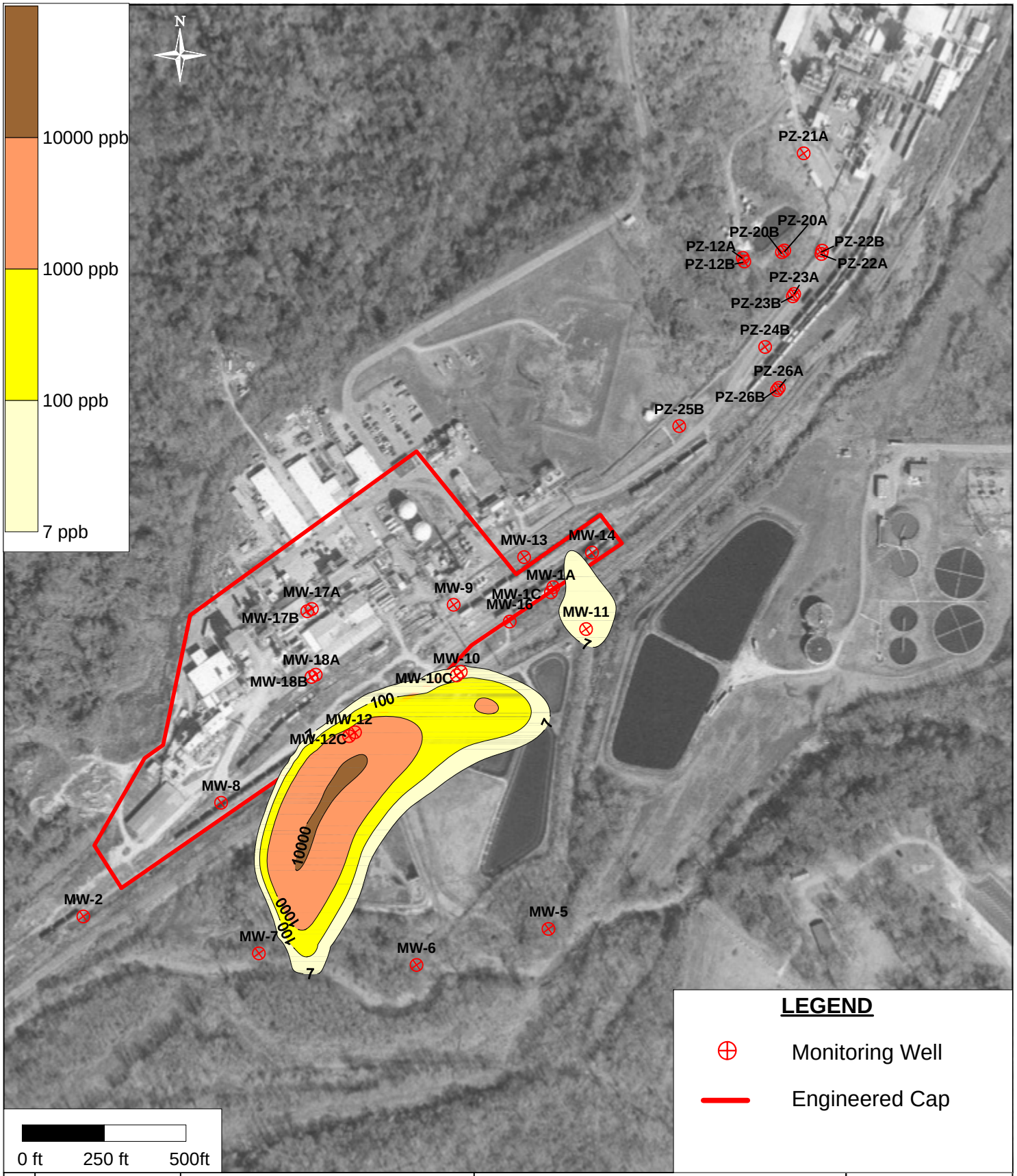
Figure	30



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Second Occurrence of Dinoseb Discharge to Surface Water, Layer 2, Year 15, Scenario 1

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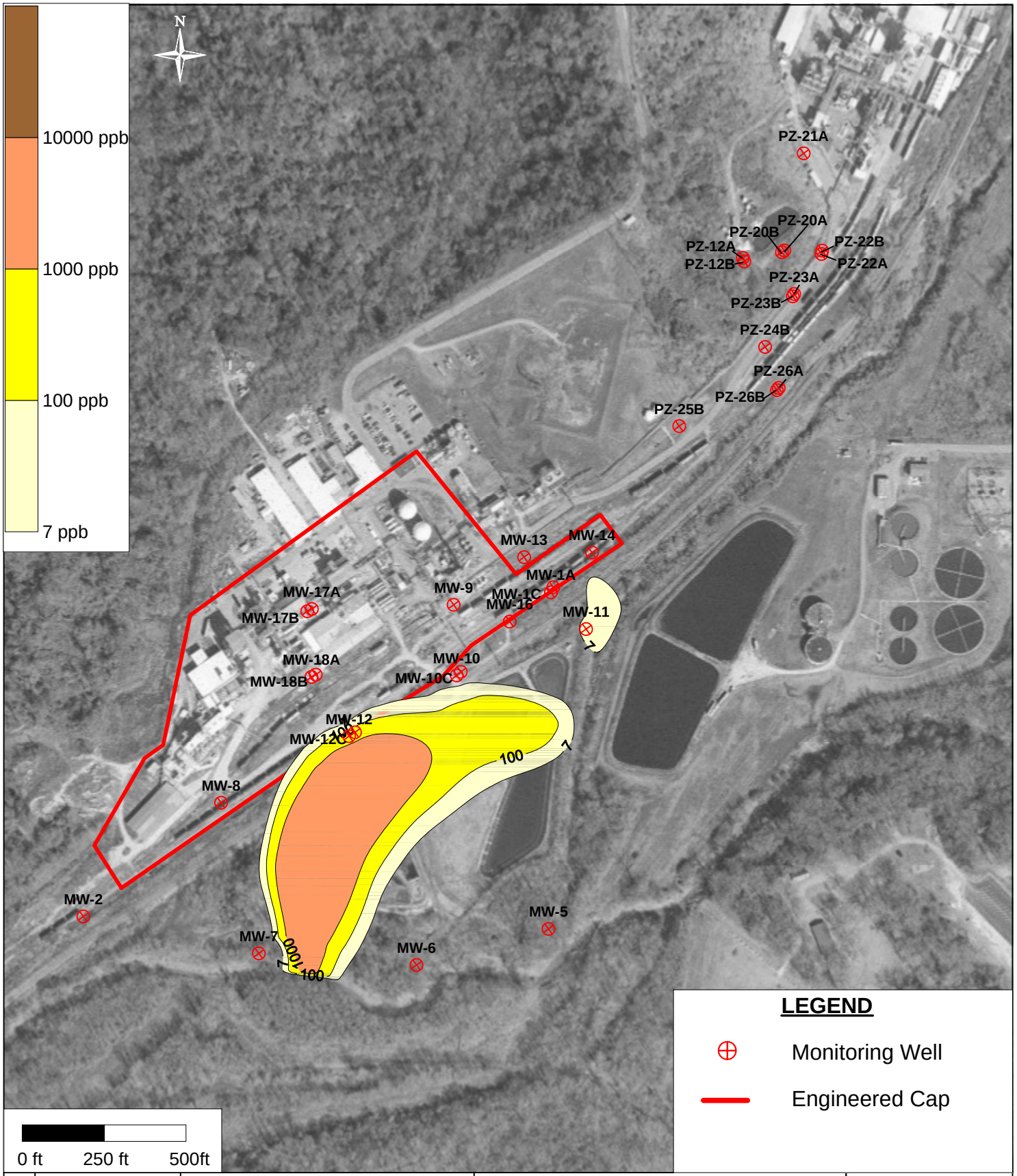
Figure	31



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Third Occurrence of Dinoseb Discharge to Surface Water, Layer 2, Year 25, Scenario 1

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VICKSBURG, MISSISSIPPI

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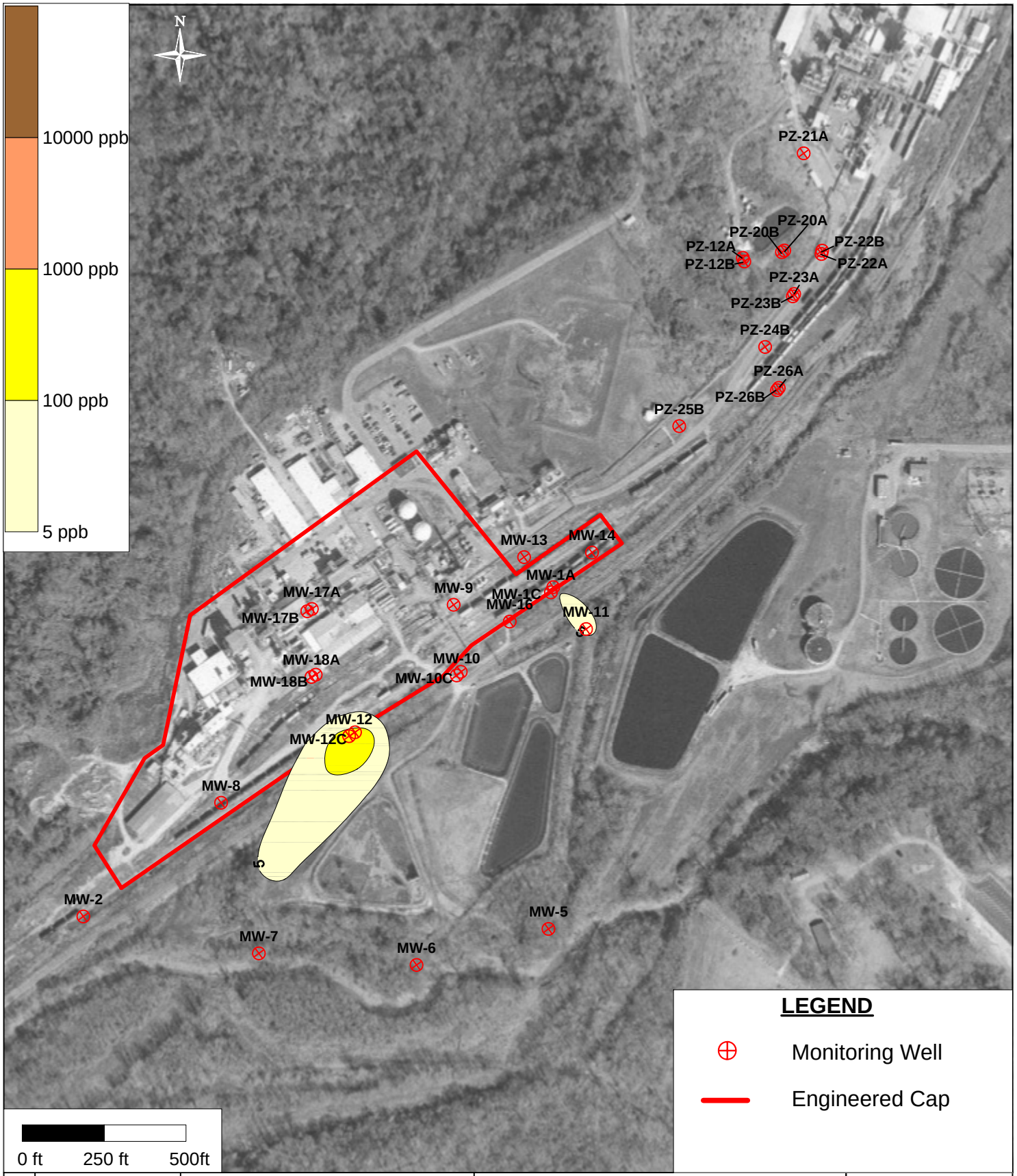
Figure	32



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First Occurrence of TCE Discharge to Surface Water, Layer 2, Year 5, Scenario 1

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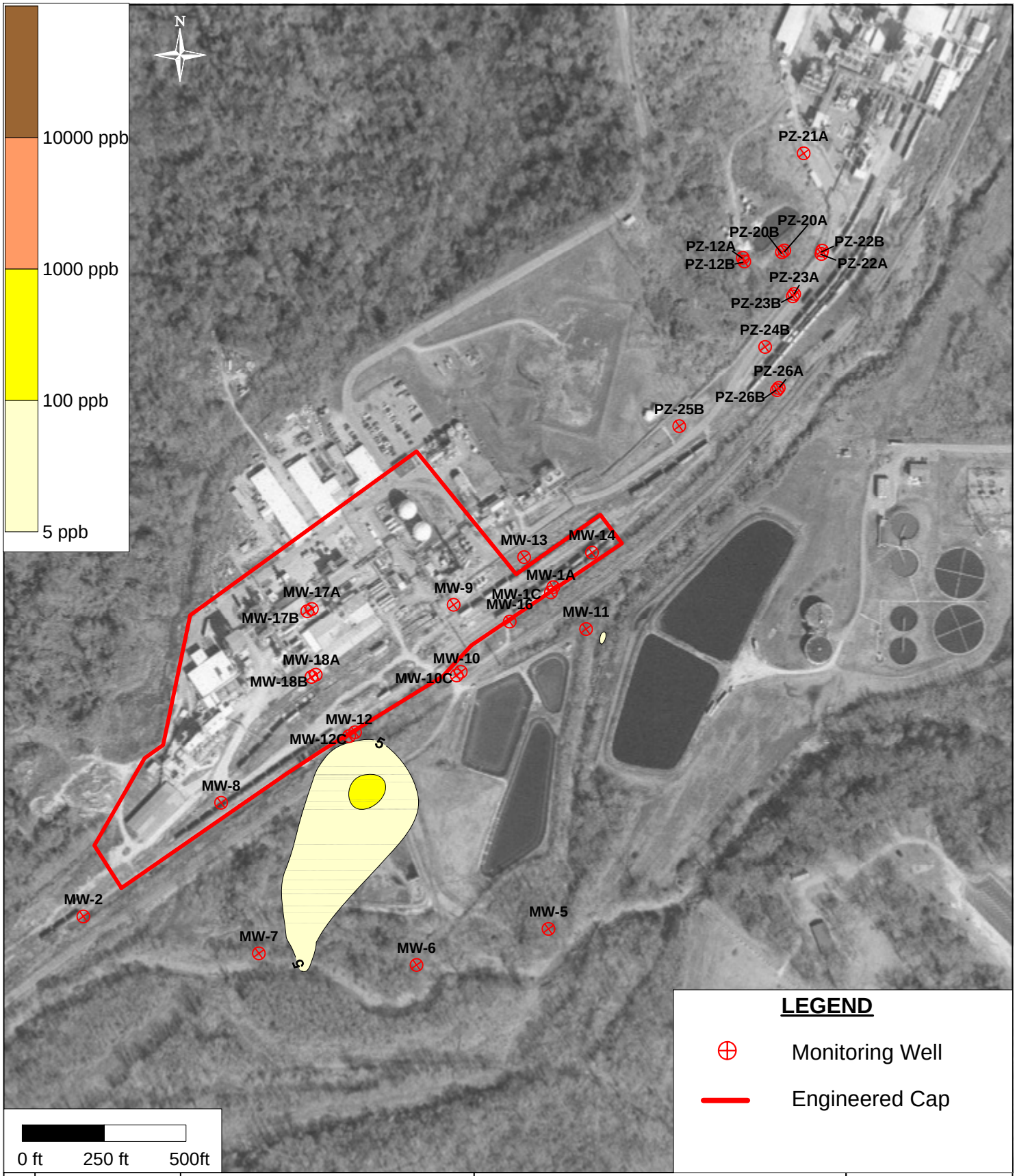
Project Number	LA002656.0001
Drawing Date	22 JAN 2008
Figure	33



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Second Occurrence of TCE Discharge to Surface Water, Layer 2, Year 30, Scenario 1

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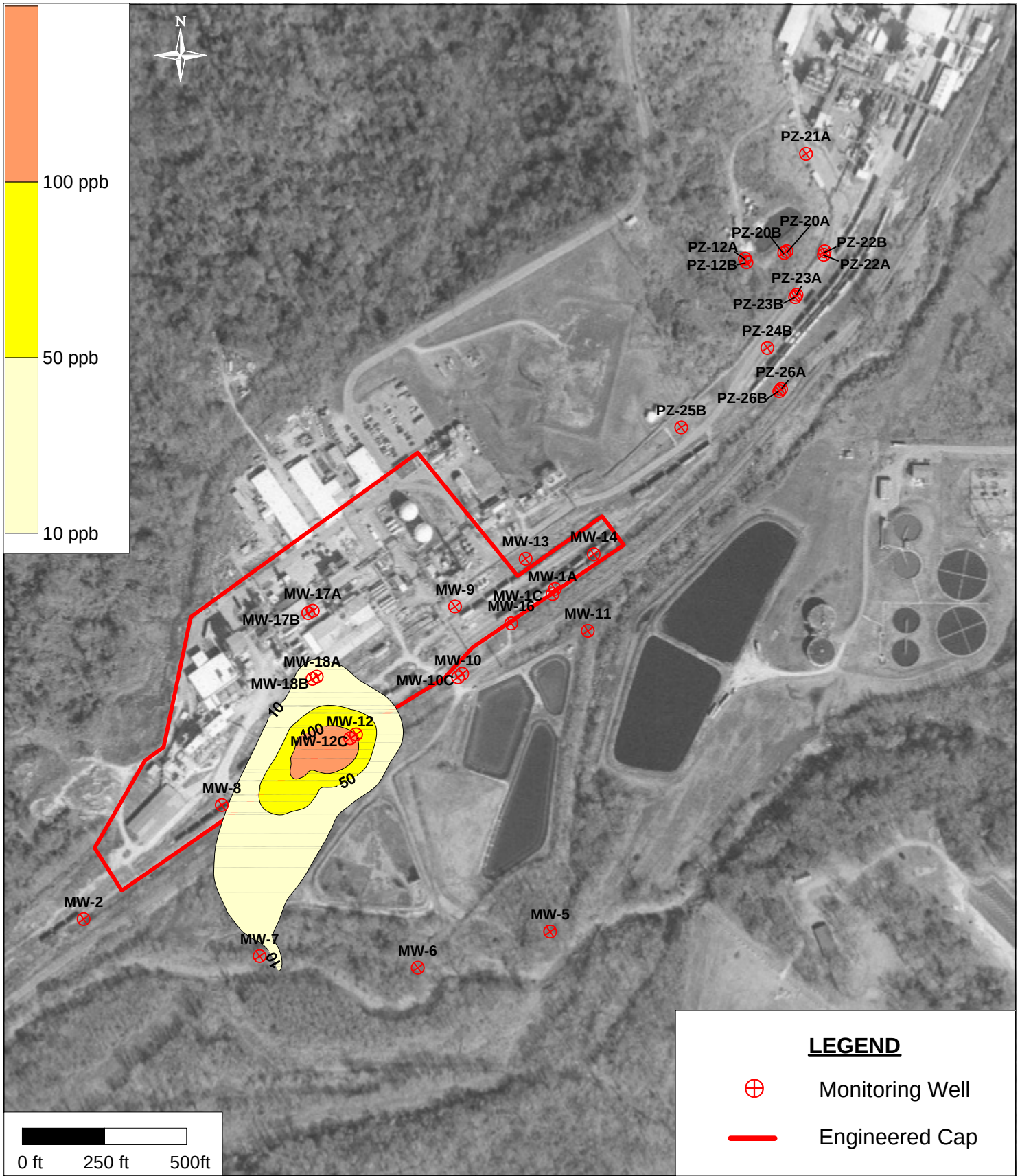
VICKSBURG, MISSISSIPPI

Project Number	LA002656.0001
Drawing Date	22 JAN 2008
Figure	34



LEGEND

- Monitoring Well
- Engineered Cap

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First Occurrence of Arsenic Discharge to Surface Water, Layer 2, Year 25, Scenario 1

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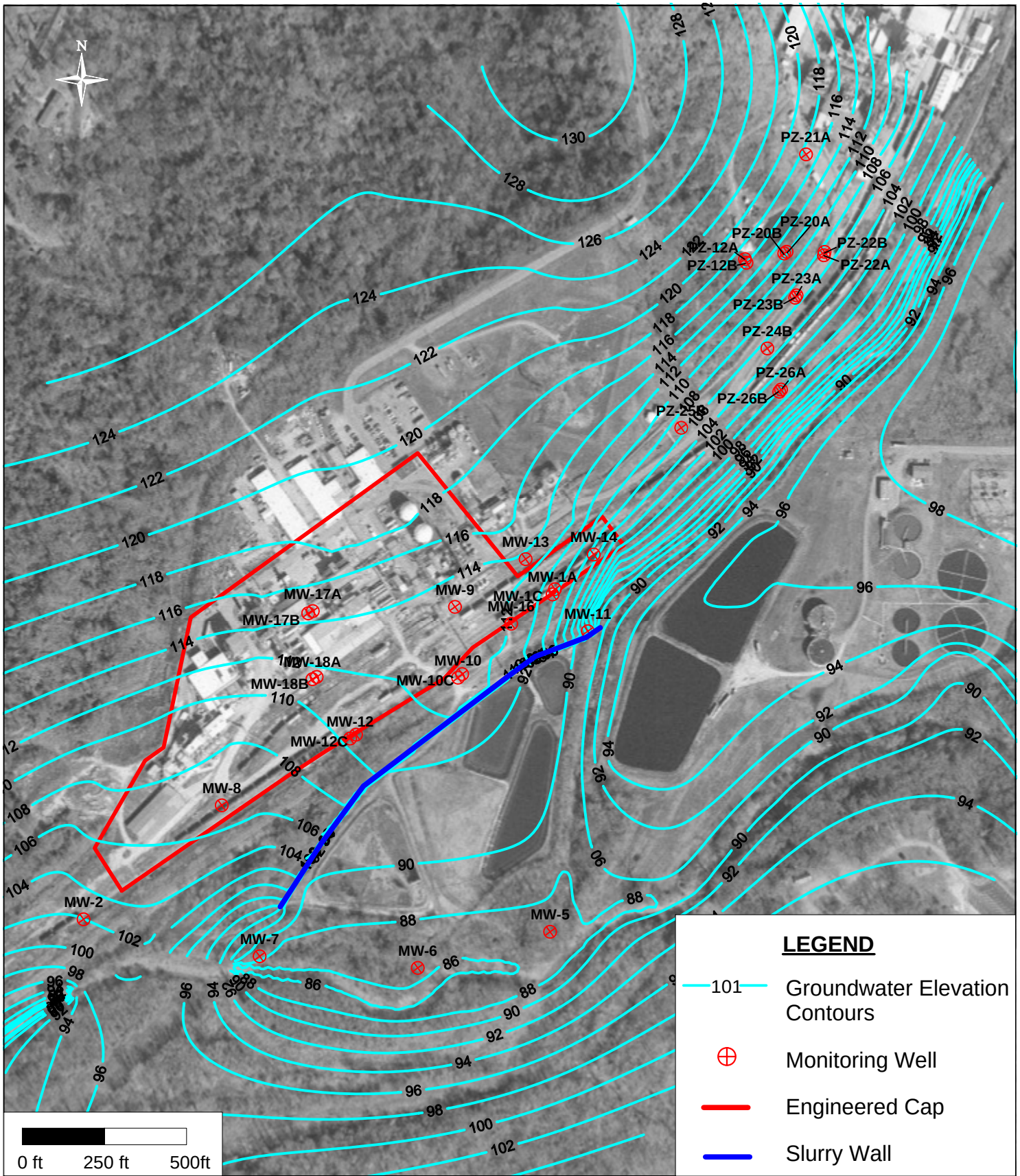
VICKSBURG, MISSISSIPPI

Project Number	LA002656.0001
Drawing Date	22 JAN 2008
Figure	35



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Simulated Groundwater Elevation in Layer 1, Scenario 2

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VICKSBURG, MISSISSIPPI

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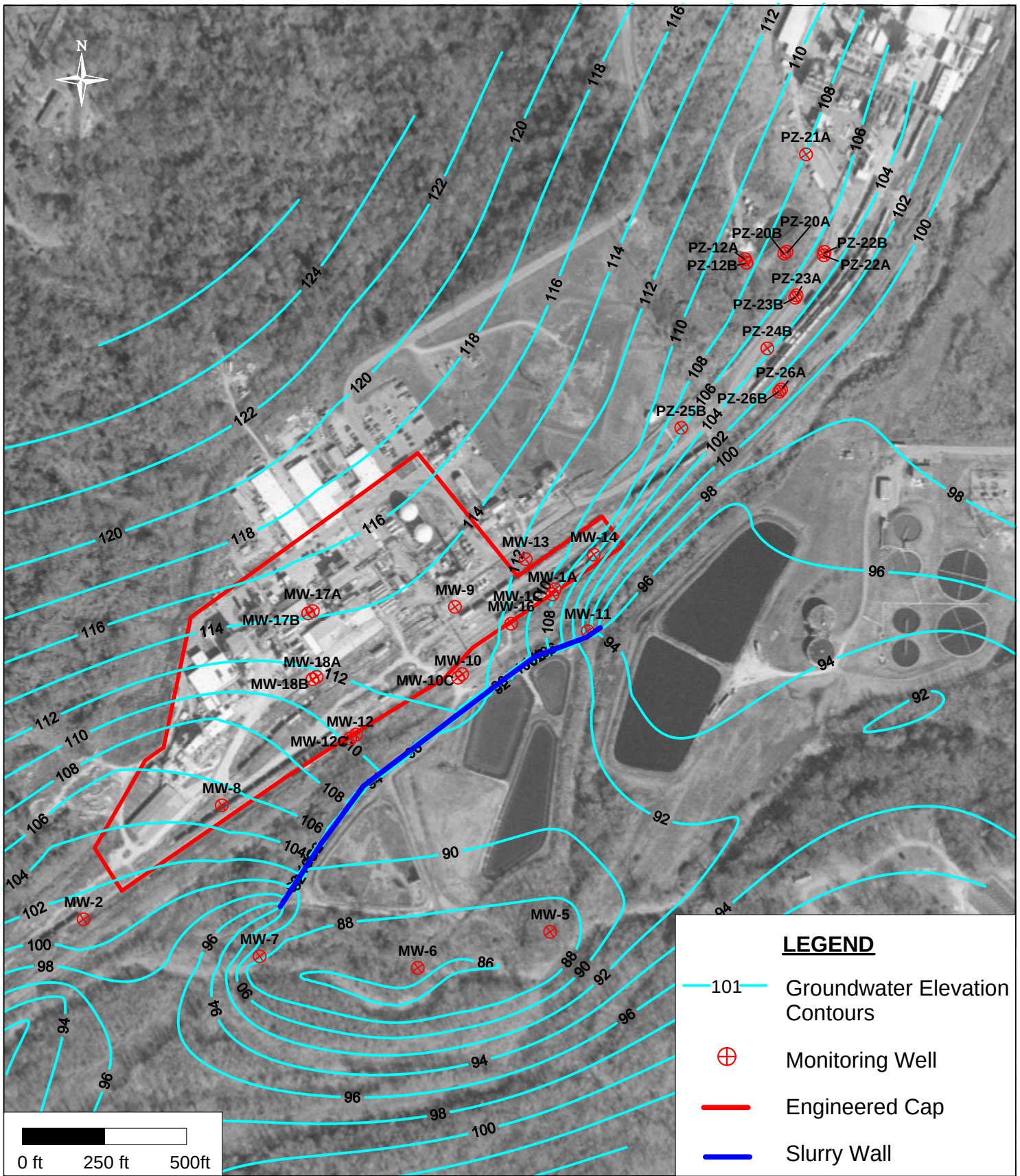
Drawing Date	22 JAN 2008
Figure	36



LEGEND

- 101 — Groundwater Elevation Contours
- Monitoring Well
- Engineered Cap
- Slurry Wall

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Simulated Groundwater Elevation in Layer 2, Scenario 2

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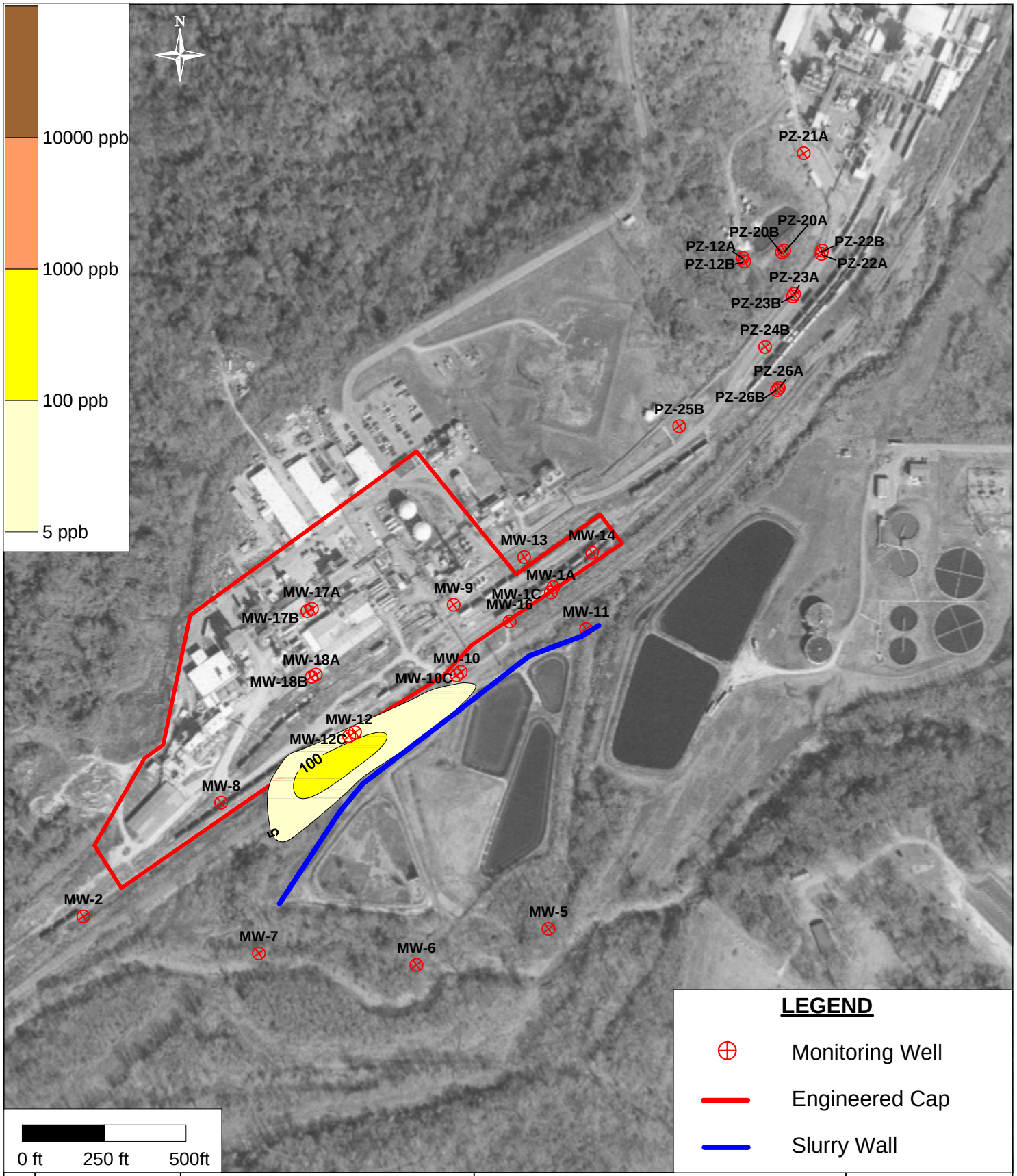
Figure	37



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Maximum Extent of Carbon Tetrachloride Concentrations near Surface Water Layer 2, Year 50, Scenario 2

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VICKSBURG, MISSISSIPPI

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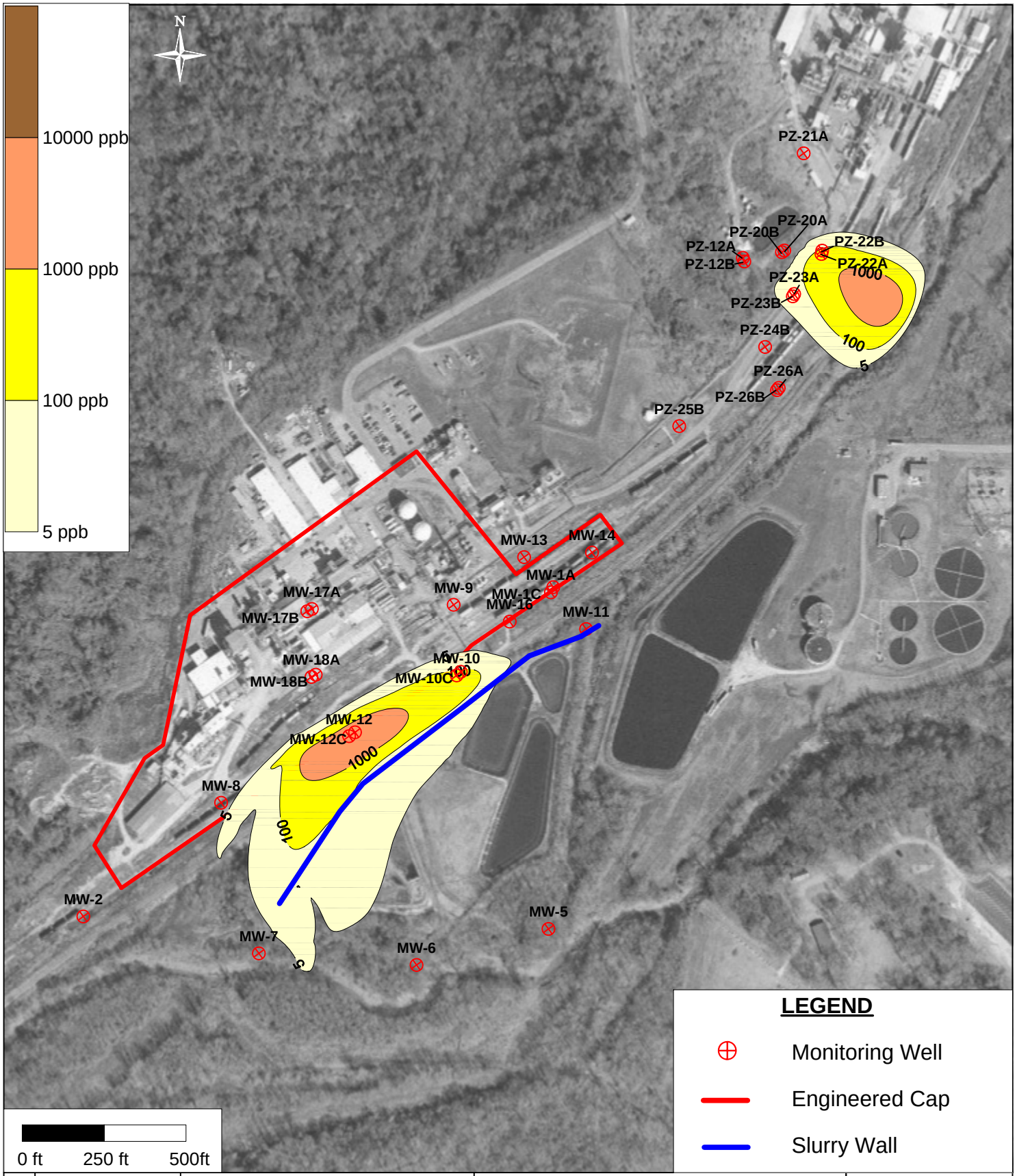
Figure	38



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First Occurrence of Chloroform Discharge to Surface Water, Layer 2, Year 25, Scenario 2

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VICKSBURG, MISSISSIPPI

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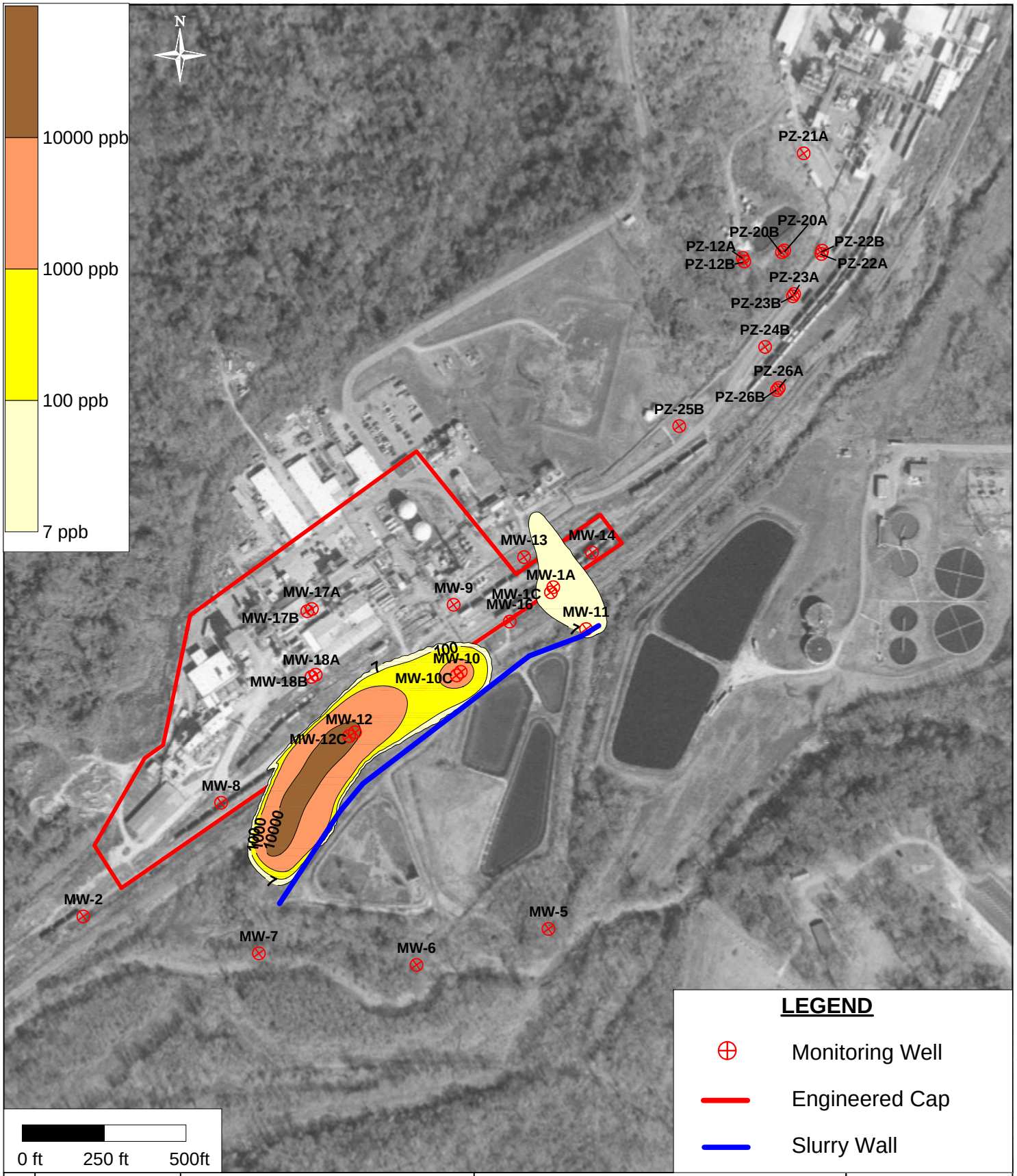
Figure	39



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First Occurrence of Dinoseb Discharge to Surface Water, Layer 2, Year 1, Scenario 2

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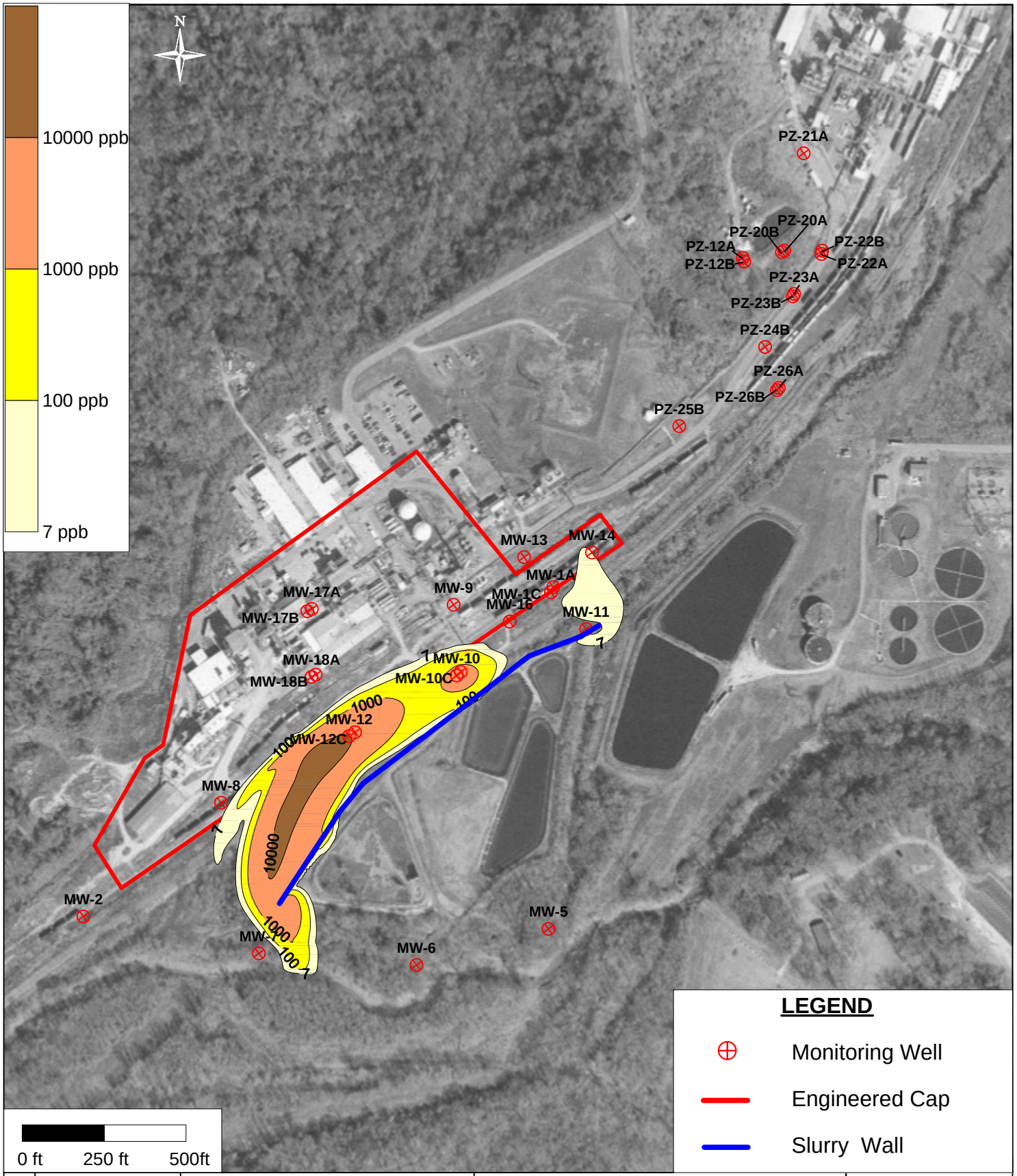
Figure	40



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Second Occurrence of Dinoseb Discharge to Surface Water, Layer 2, Year 15, Scenario 2

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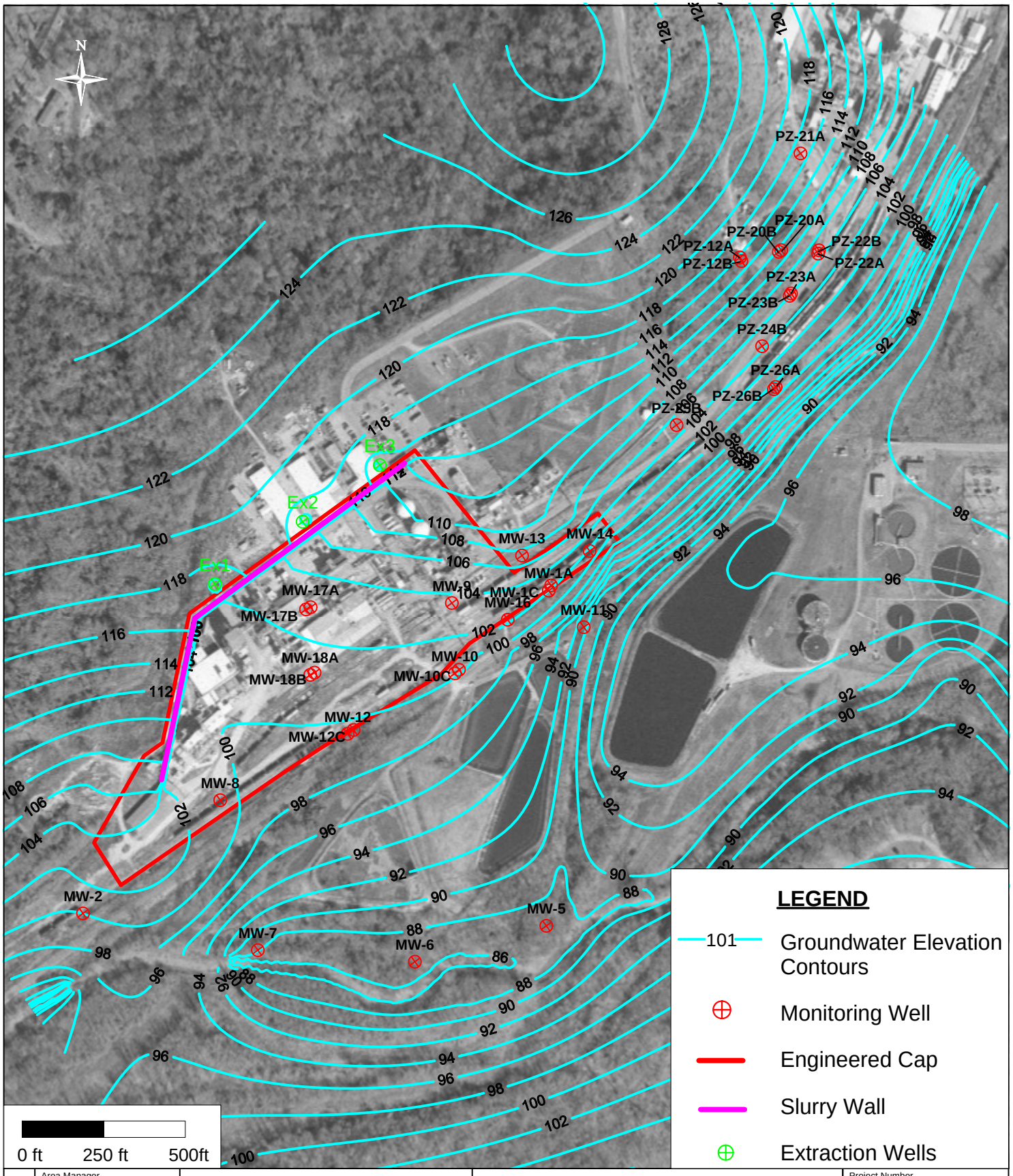
Figure	41



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Simulated Groundwater Elevation in Layer 1, Scenario 3

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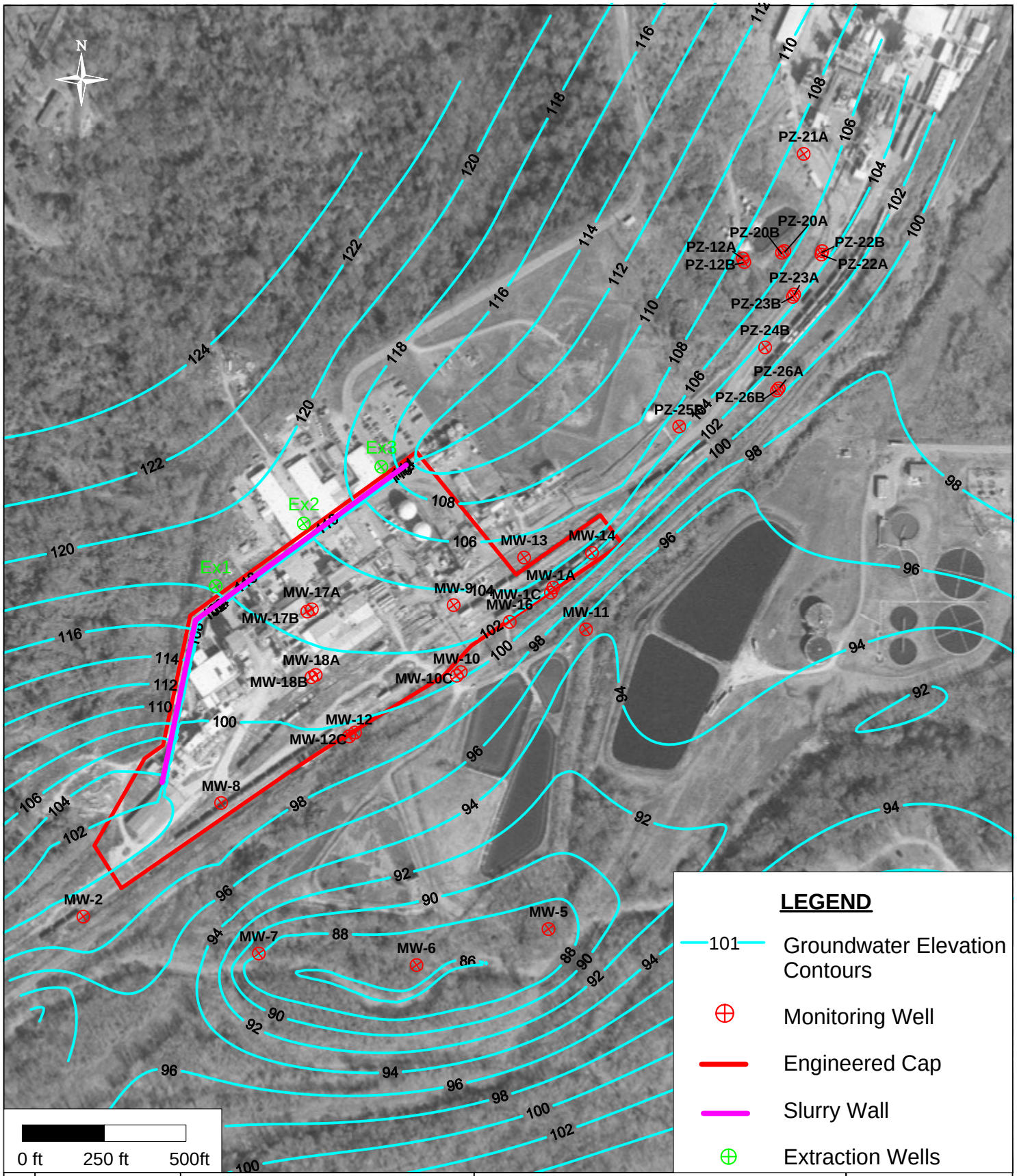
Figure	42



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Simulated Groundwater Elevation in Layer 2, Scenario 3

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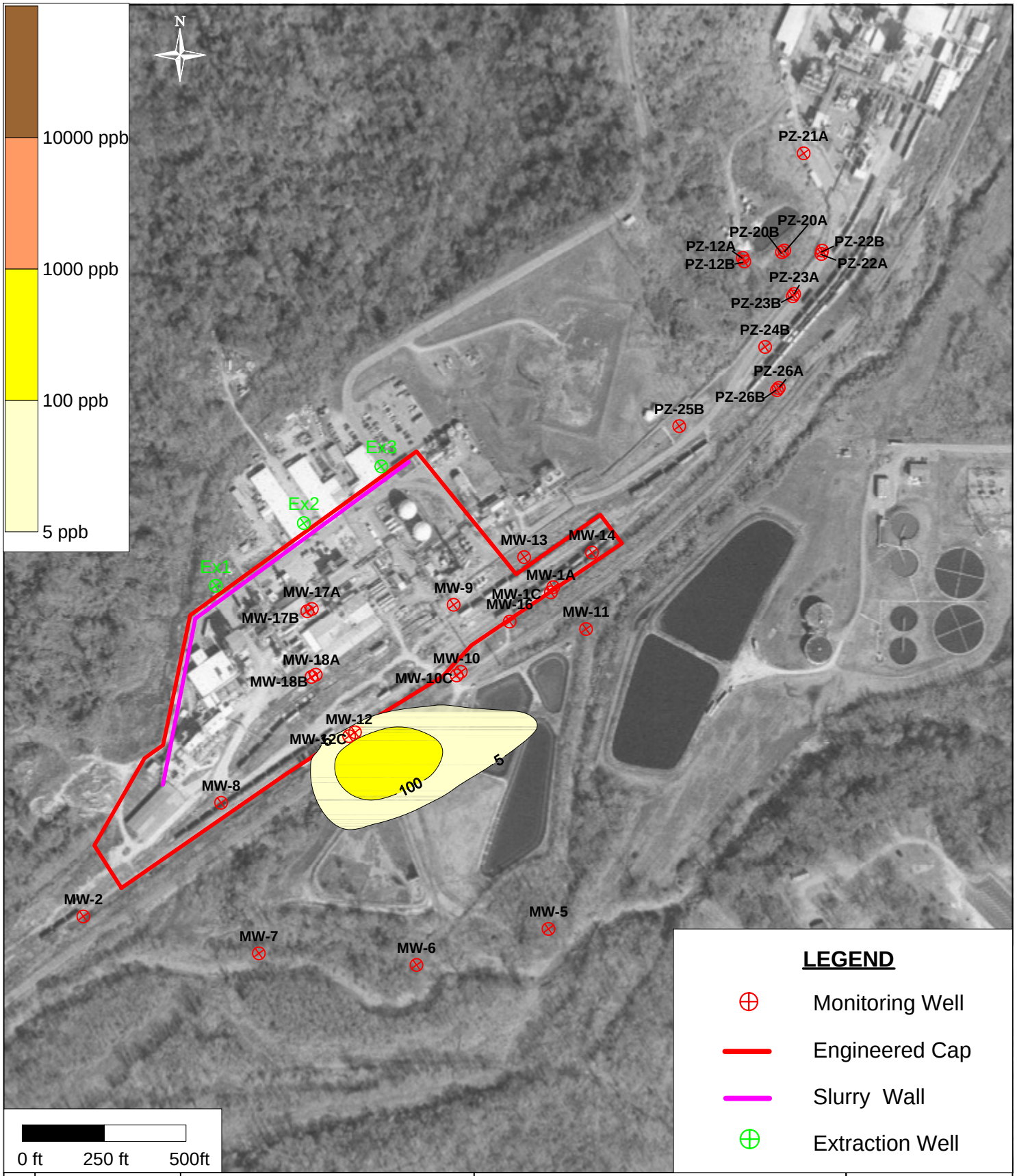
Figure	43



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Maximum Extent of Carbon Tetrachloride Concentrations near Surface Water Layer 2, Year 35, Scenario 3

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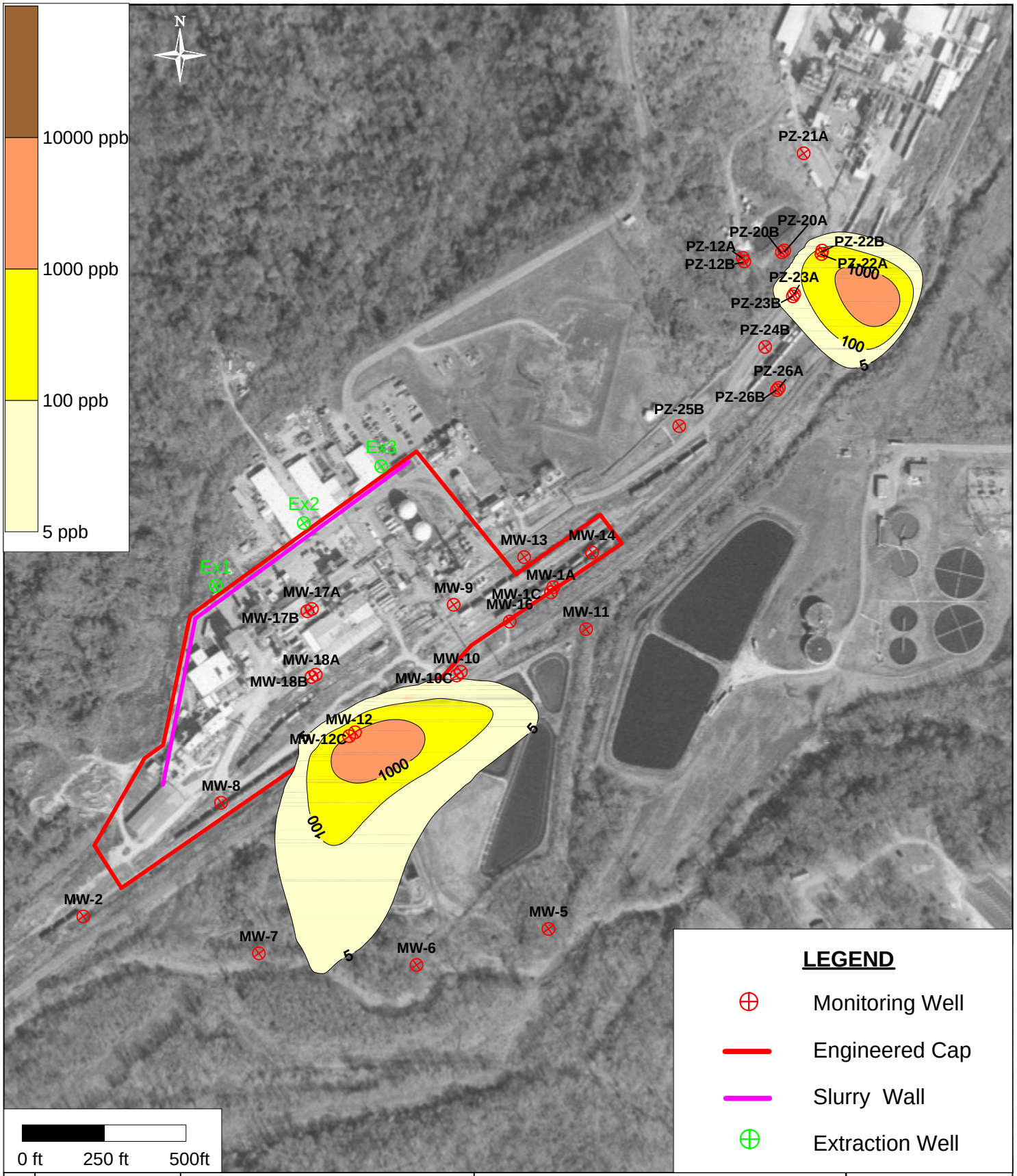
Figure	44



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First Occurrence of Chloroform Discharge to Surface Water, Layer 2, Year 25, Scenario 3

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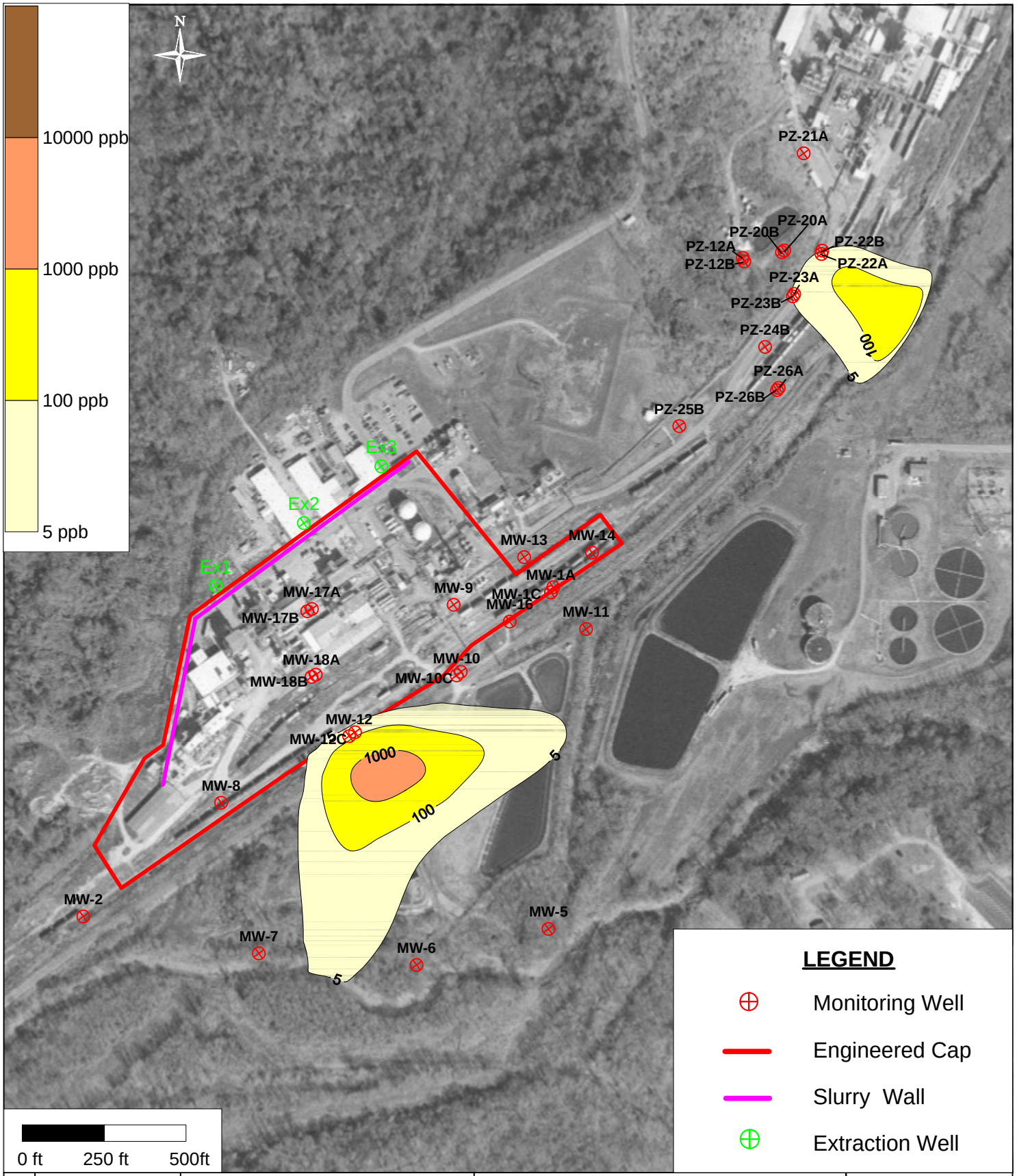
Figure	45



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Second Occurrence of Chloroform Discharge to Surface Water, Layer 2, Year 50, Scenario 3

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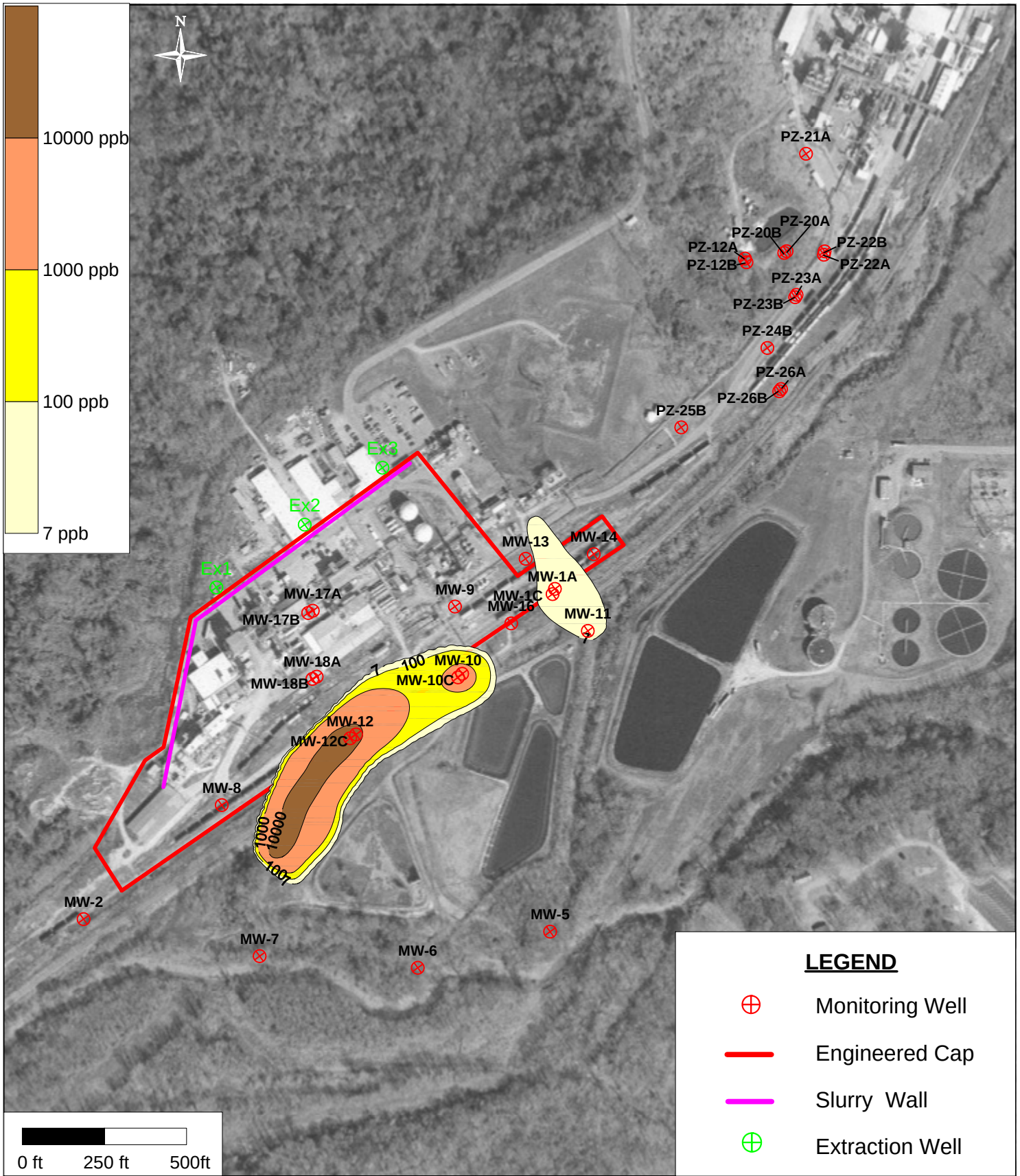
Figure	46



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First Occurrence of Dinoseb Discharge to Surface Water, Layer 2, Year 1, Scenario 3

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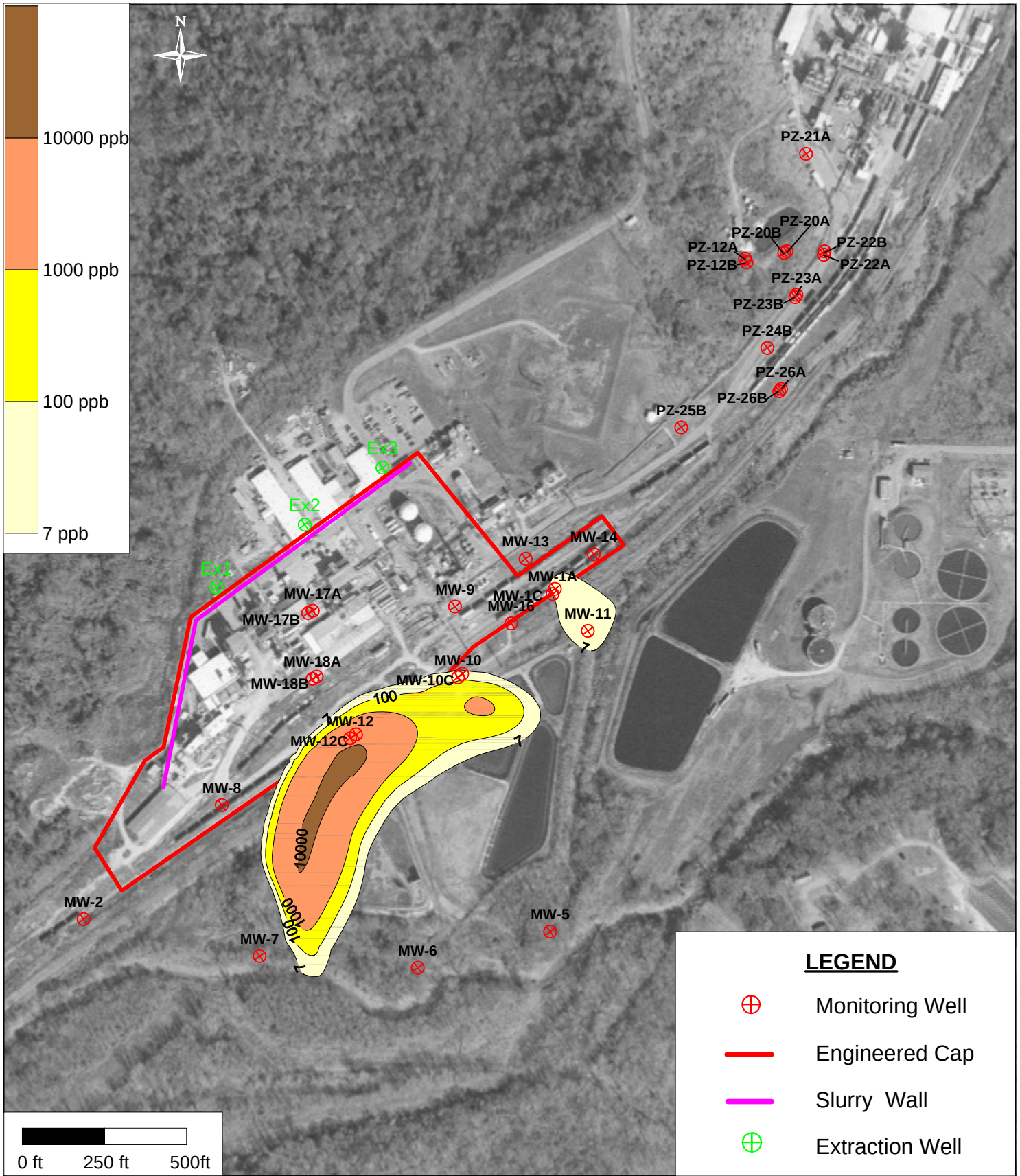
VICKSBURG, MISSISSIPPI

Project Number	LA002656.0001
Drawing Date	22 JAN 2008
Figure	47



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Second Occurrence of Dinoseb Discharge to Surface Water, Layer 2, Year 20, Scenario 3

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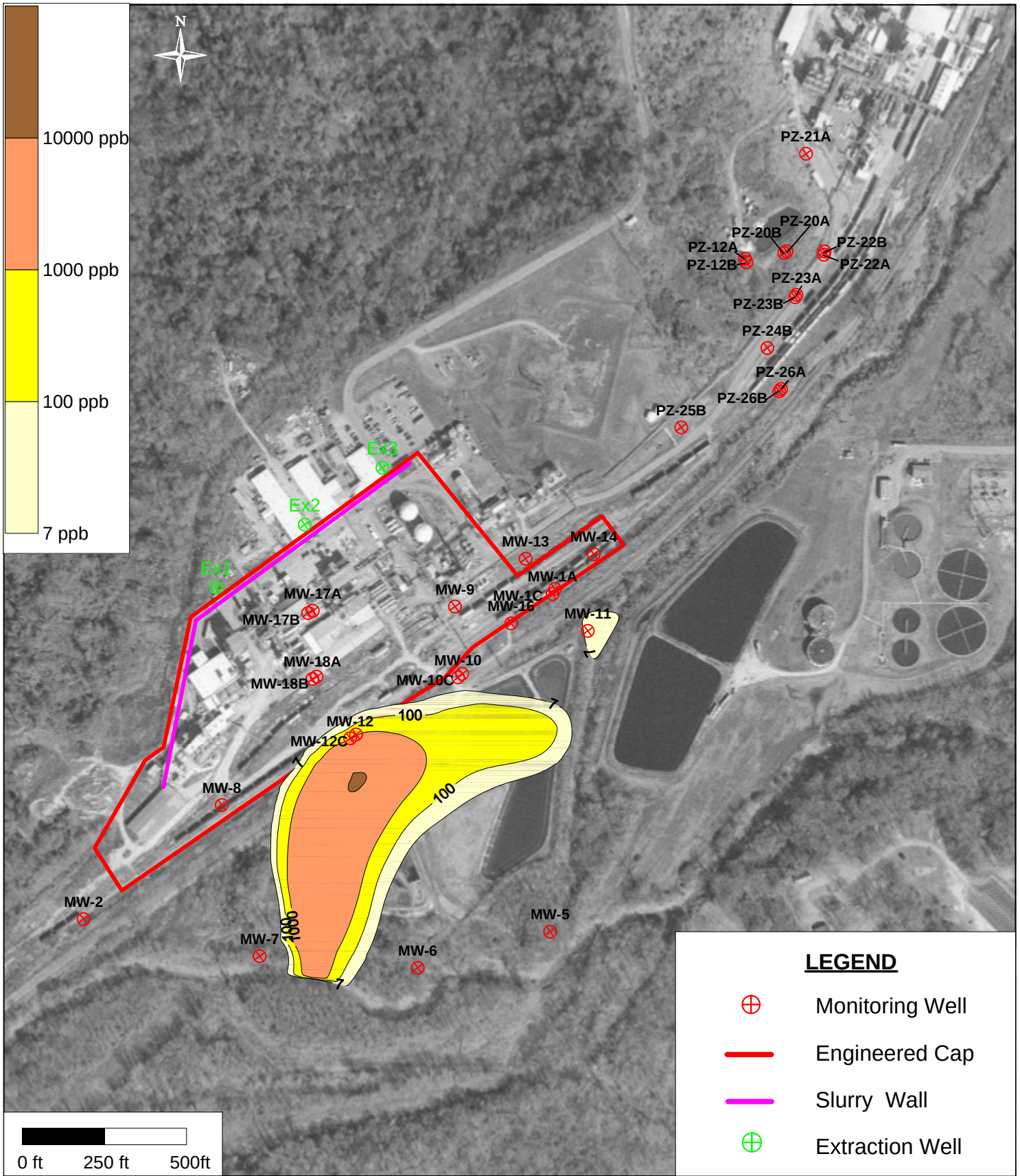
VICKSBURG, MISSISSIPPI

Project Number	LA002656.0001
Drawing Date	22 JAN 2008
Figure	48



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Third Occurrence of Dinoseb Discharge to Surface Water, Layer 2, Year 40, Scenario 3

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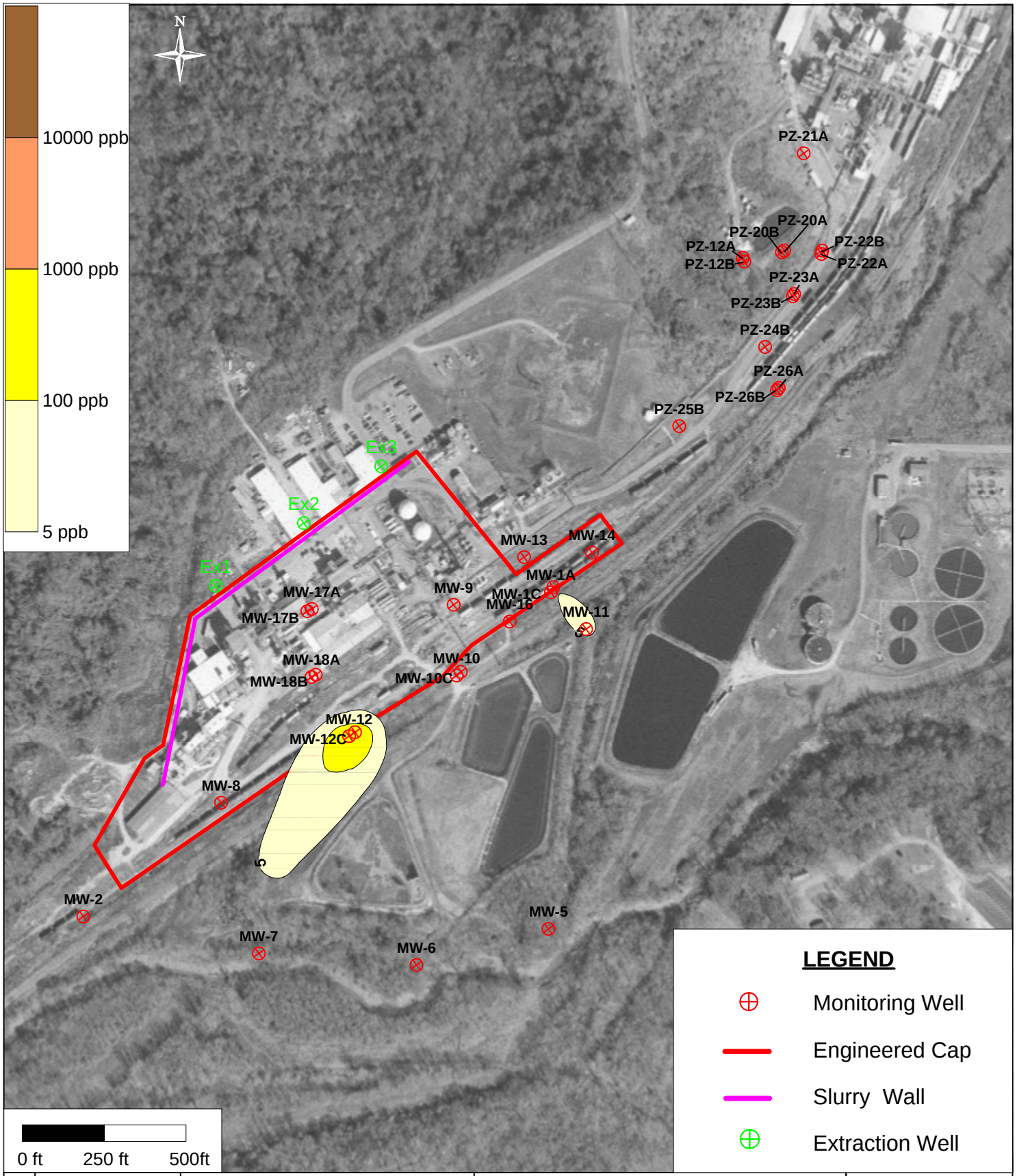
Project Number	LA002656.0001
Drawing Date	22 JAN 2008
Figure	49



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First Occurrence of TCE Discharge to Surface Water, Layer 2, Year 6, Scenario 3

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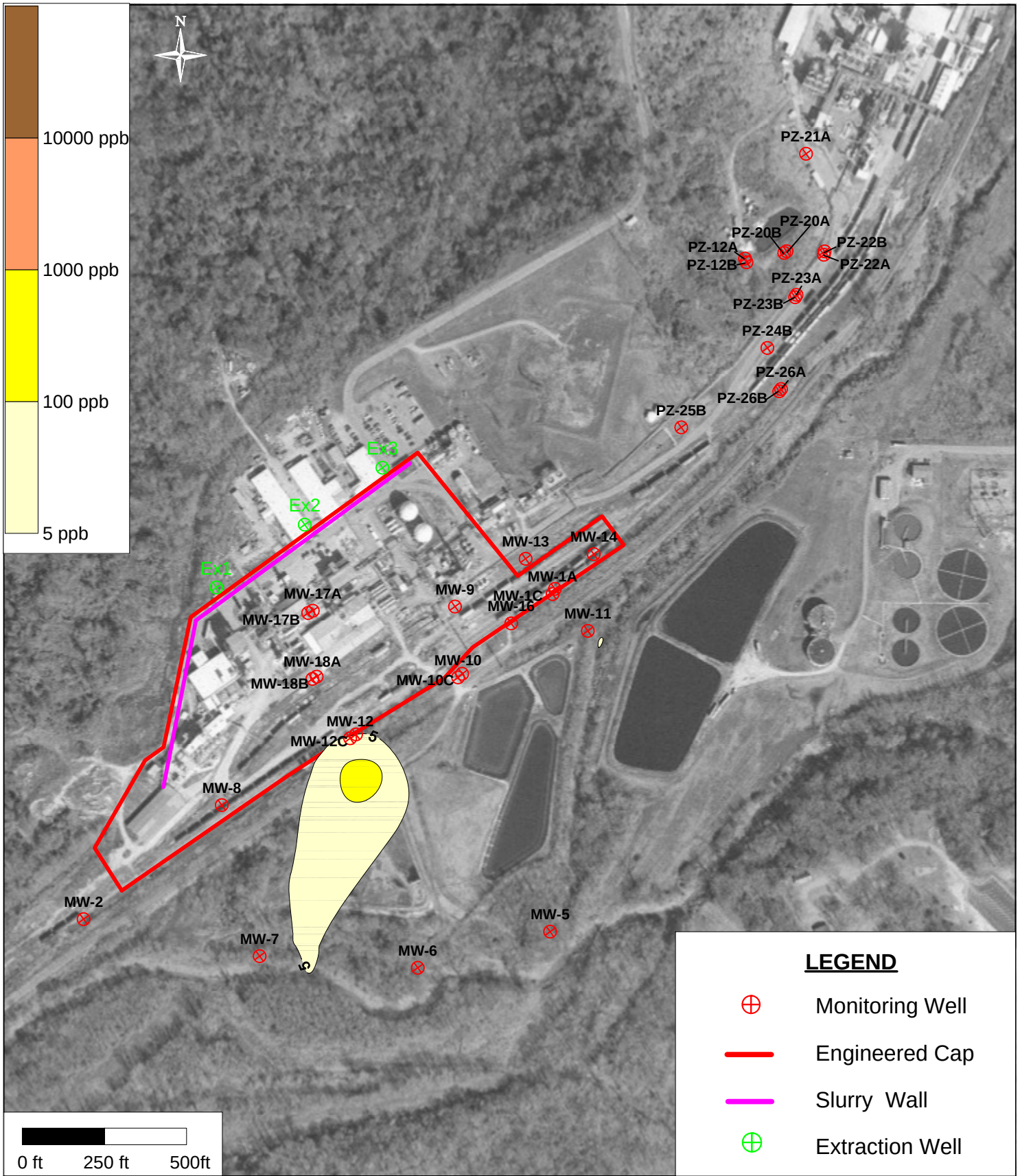
VICKSBURG, MISSISSIPPI

Project Number	LA002656.0001
Drawing Date	22 JAN 2008
Figure	50



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Second Occurrence of TCE Discharge to Surface Water, Layer 2, Year 40, Scenario 3

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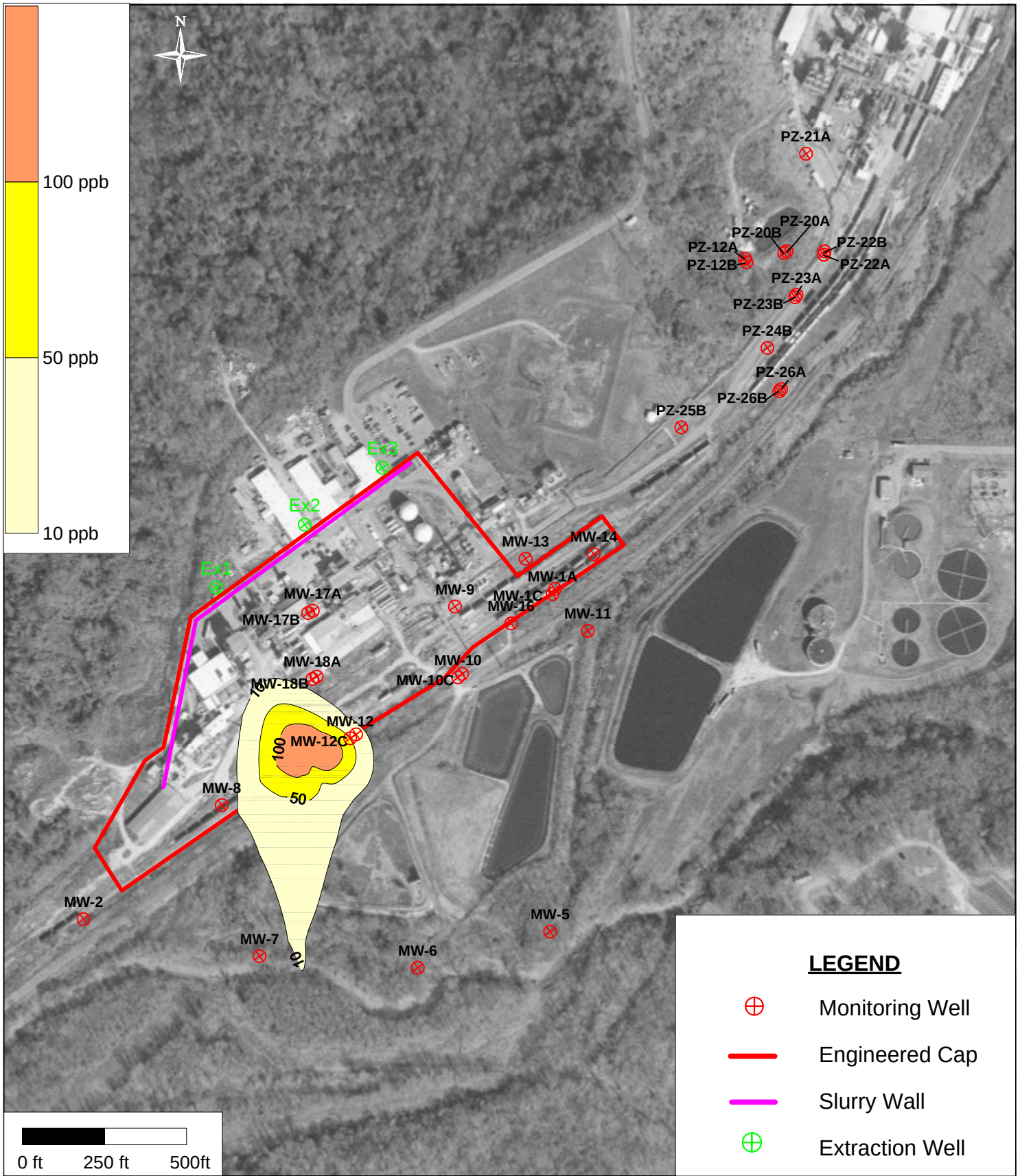
Project Number	LA002656.0001
Drawing Date	22 JAN 2008
Figure	51



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First Occurrence of Arsenic Discharge to Surface Water, Layer 2, Year 50, Scenario 3

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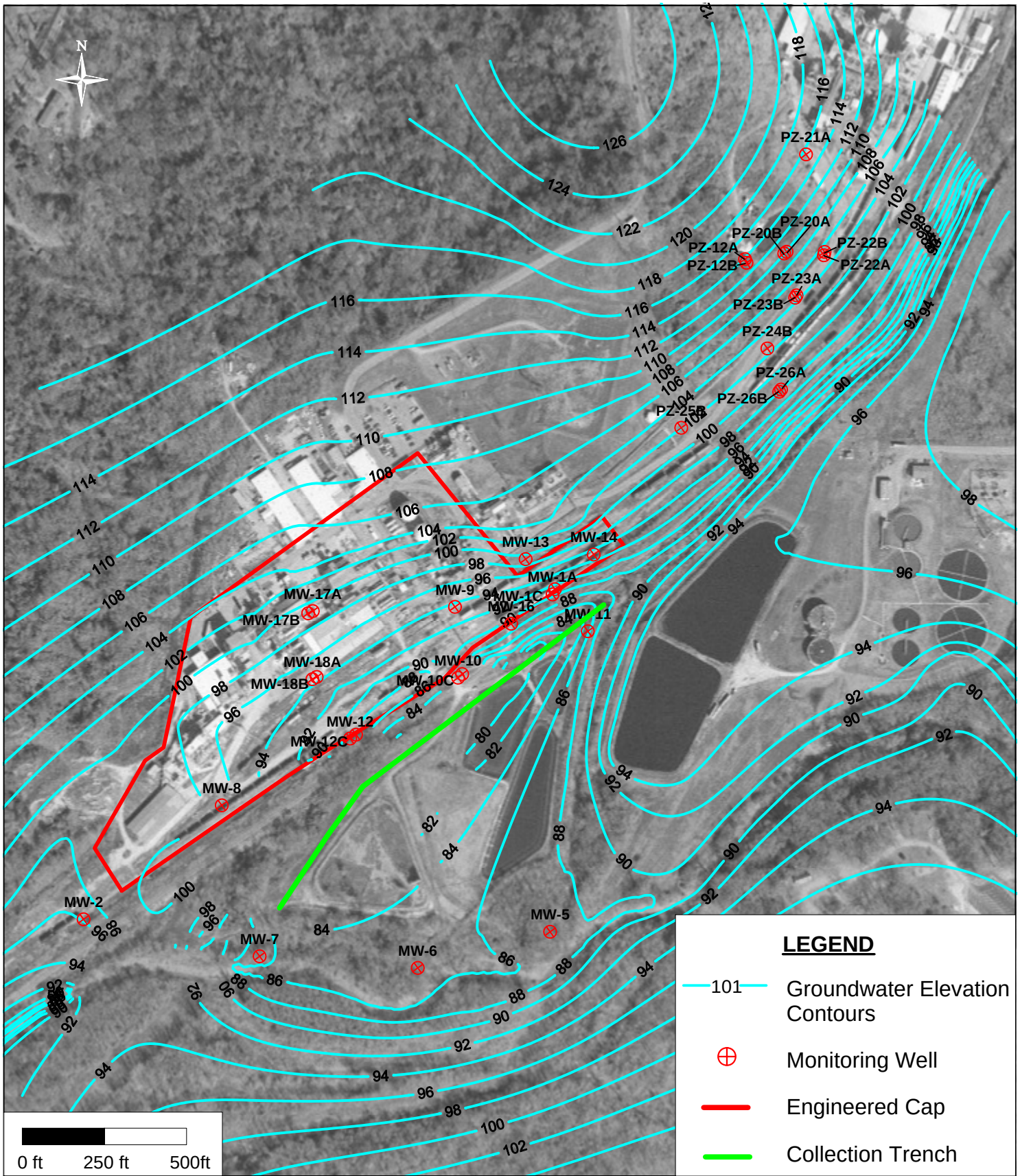
VICKSBURG, MISSISSIPPI

Project Number	LA002656.0001
Drawing Date	22 JAN 2008
Figure	52



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Simulated Groundwater Elevation in Layer 1, Scenario 4

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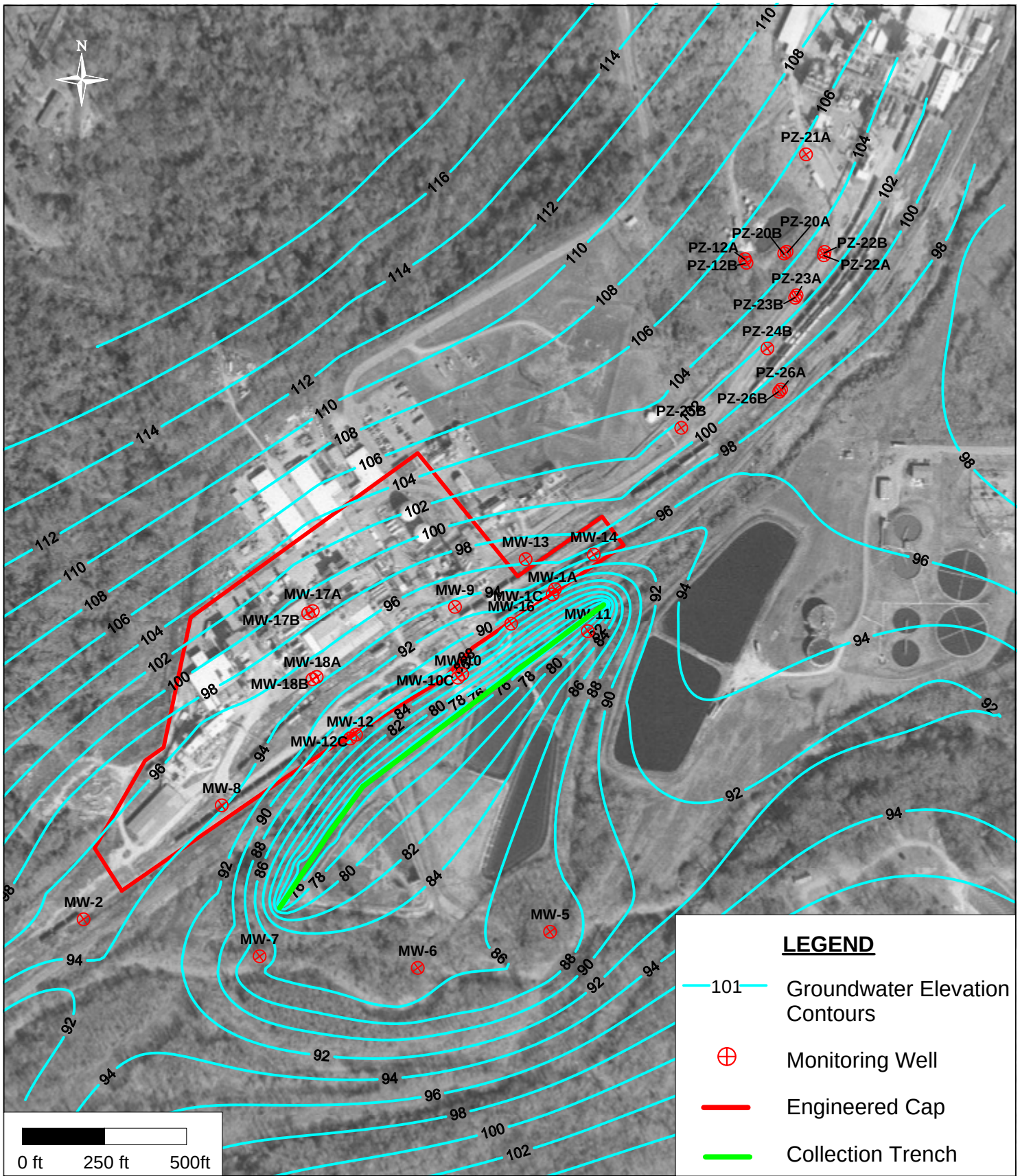
Drawing Date	22 JAN 2008
Figure	53



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Simulated Groundwater Elevation in Layer 2, Scenario 4

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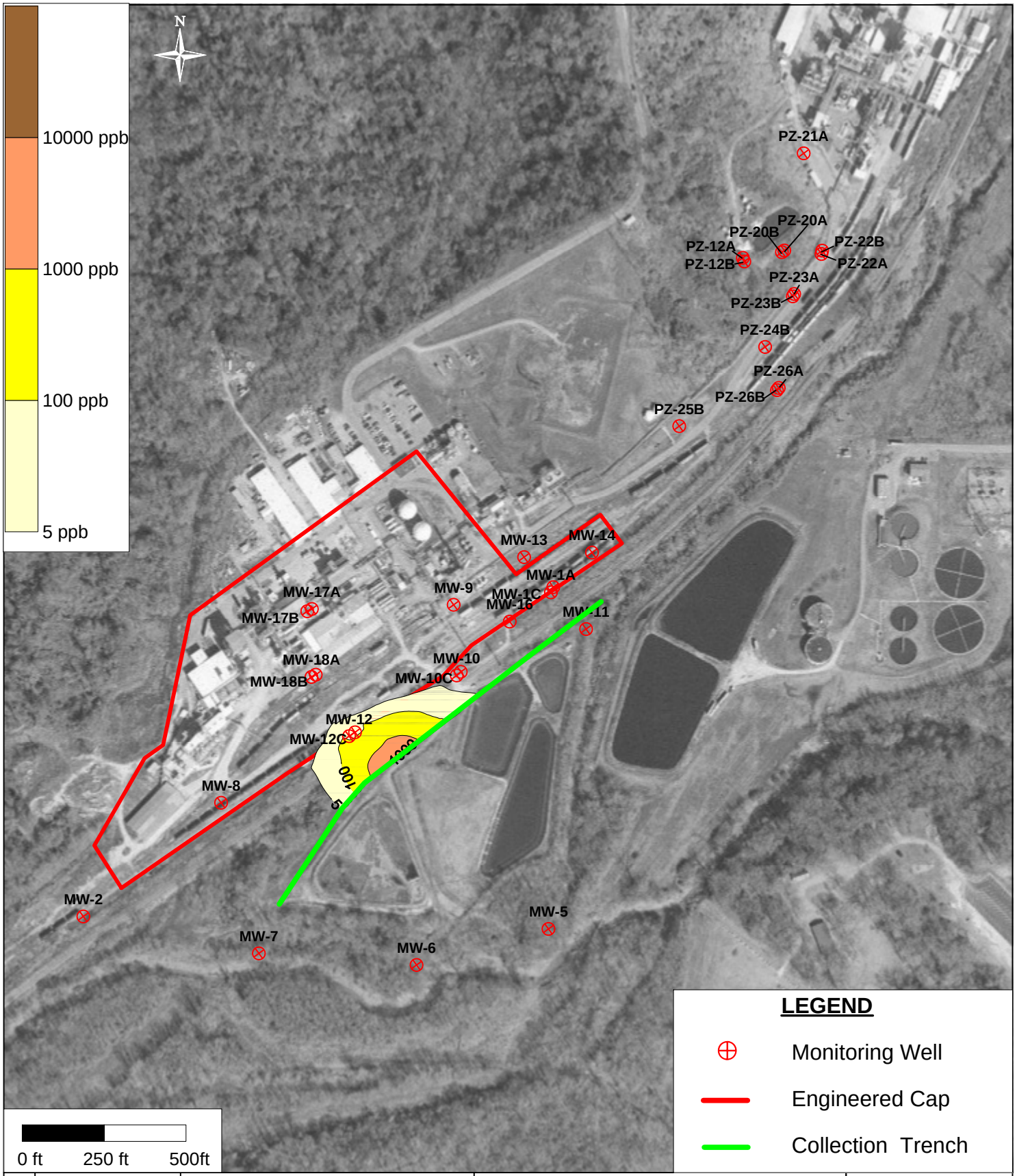
Figure	54



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Carbon Tetrachloride Concentrations Layer 2, Year 10, Scenario 4

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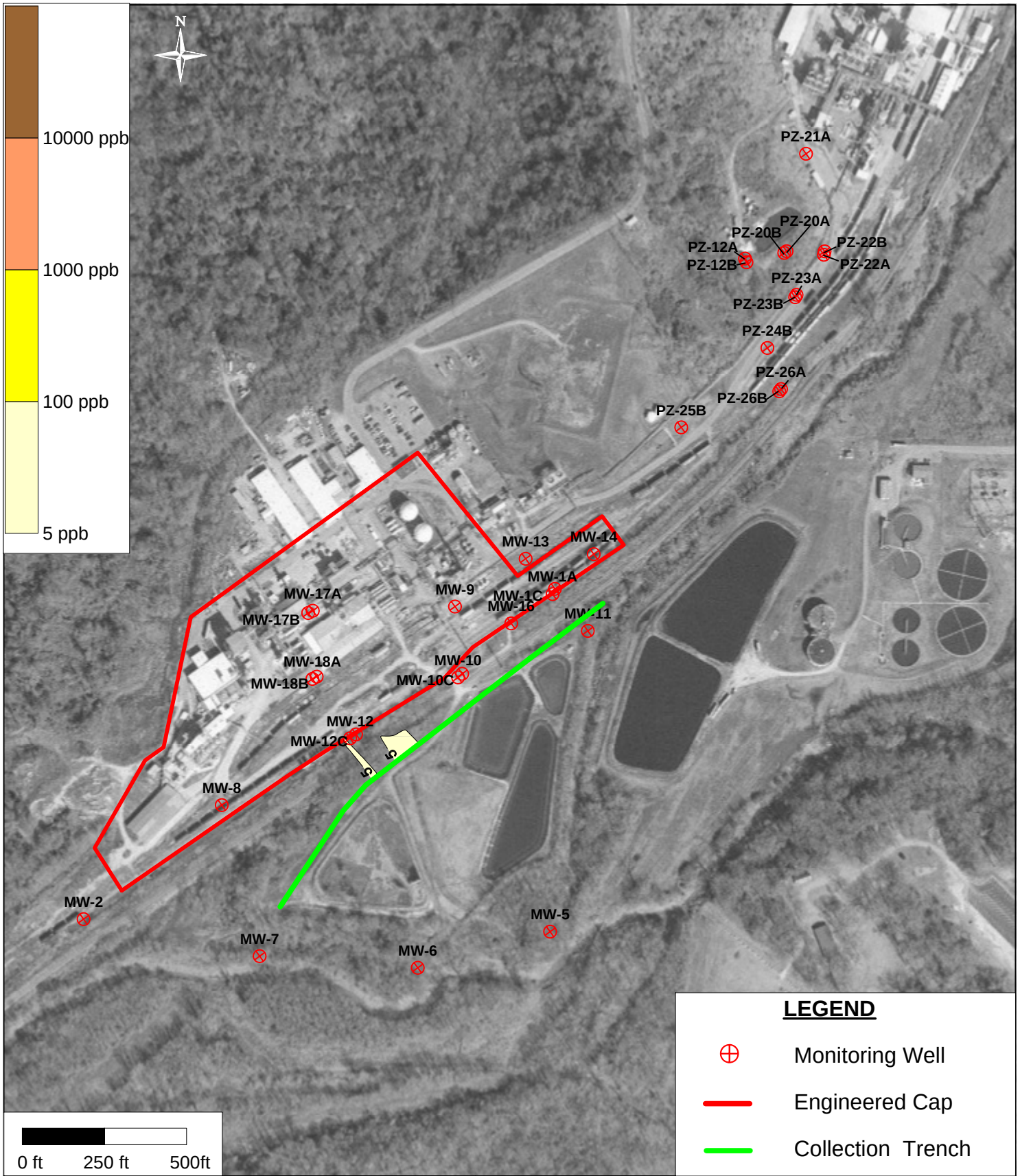
VICKSBURG, MISSISSIPPI

Project Number	LA002656.0001
Drawing Date	22 JAN 2008
Figure	55



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Carbon Tetrachloride Concentrations Layer 2, Year 30, Scenario 4

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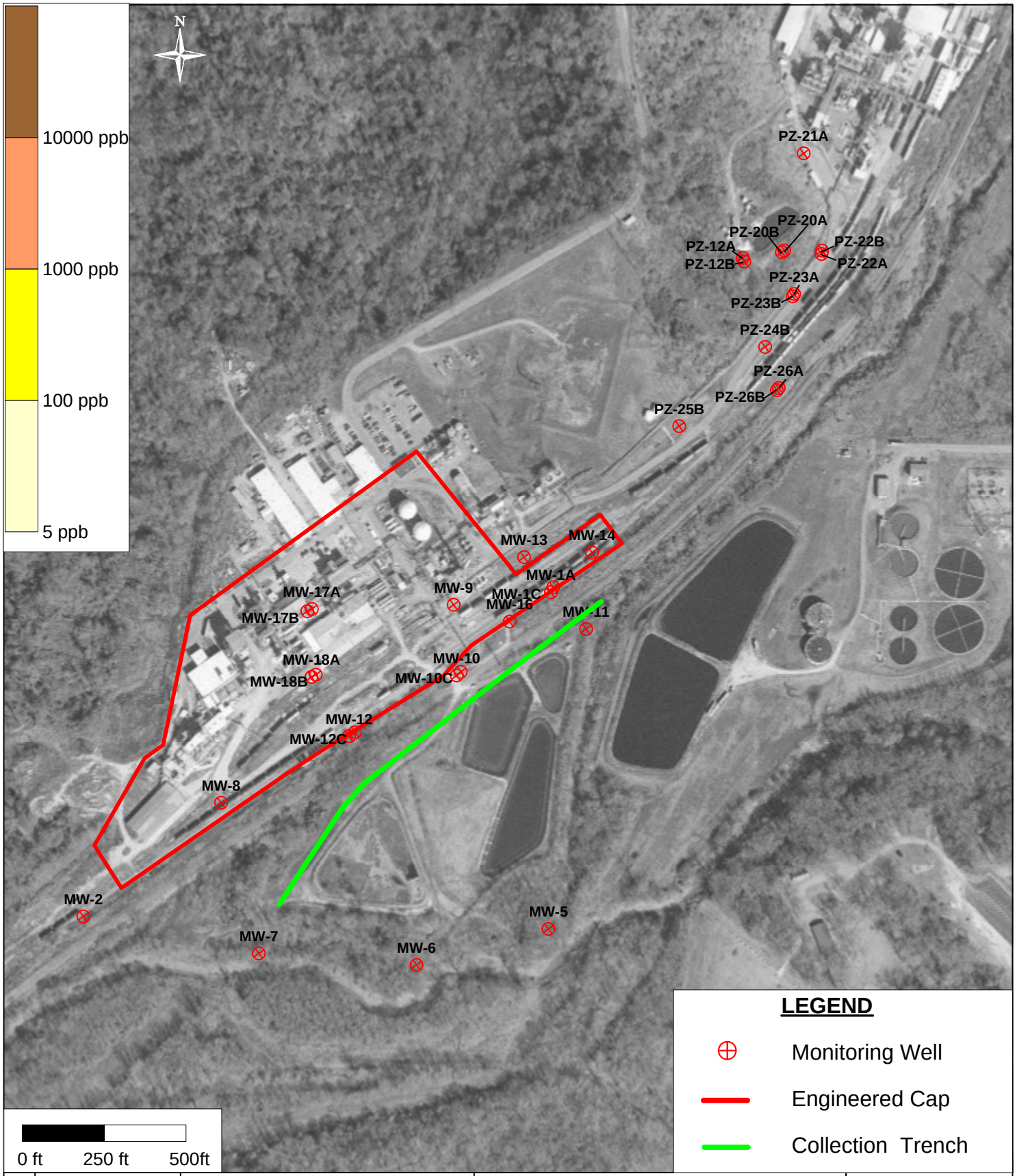
VICKSBURG, MISSISSIPPI

Project Number	LA002656.0001
Drawing Date	22 JAN 2008
Figure	56



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Carbon Tetrachloride Concentrations Layer 2, Year 50, Scenario 4

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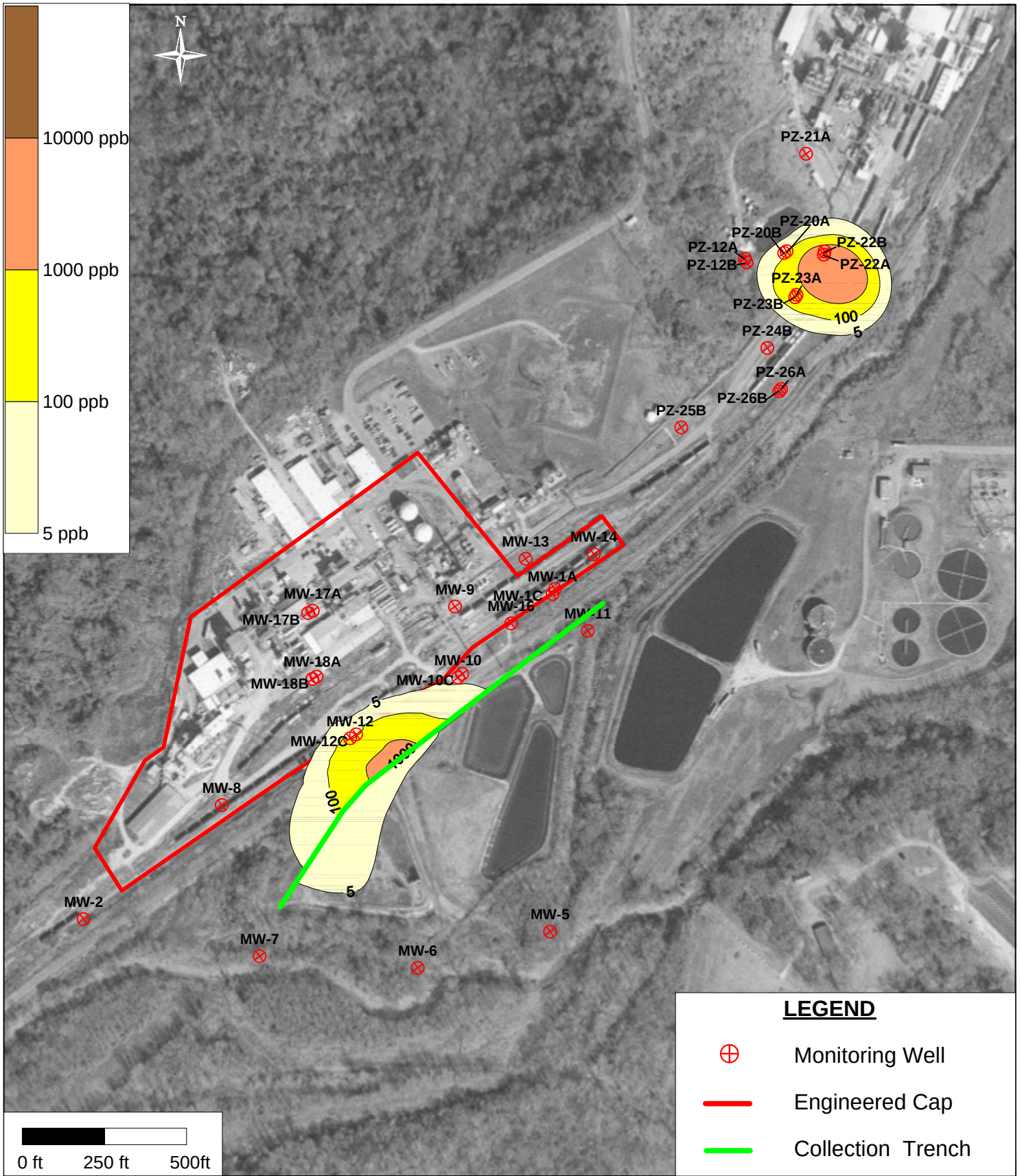
VICKSBURG, MISSISSIPPI

Project Number	LA002656.0001
Drawing Date	22 JAN 2008
Figure	57



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Chloroform Concentrations
Layer 2, Year 10, Scenario 4

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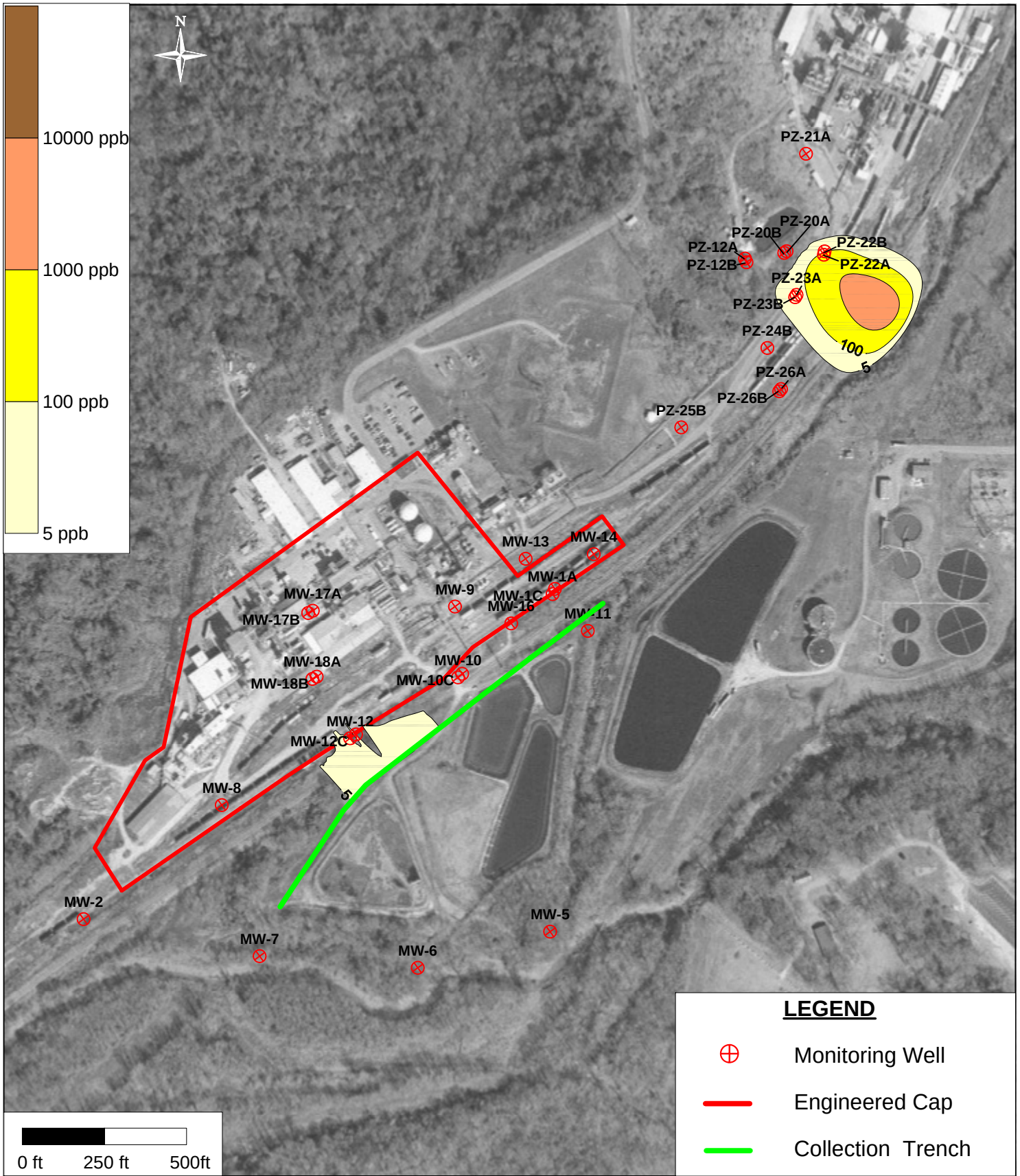
VICKSBURG, MISSISSIPPI

Project Number	LA002656.0001
Drawing Date	22 JAN 2008
Figure	58



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Chloroform Concentrations Layer 2, Year 30, Scenario 4

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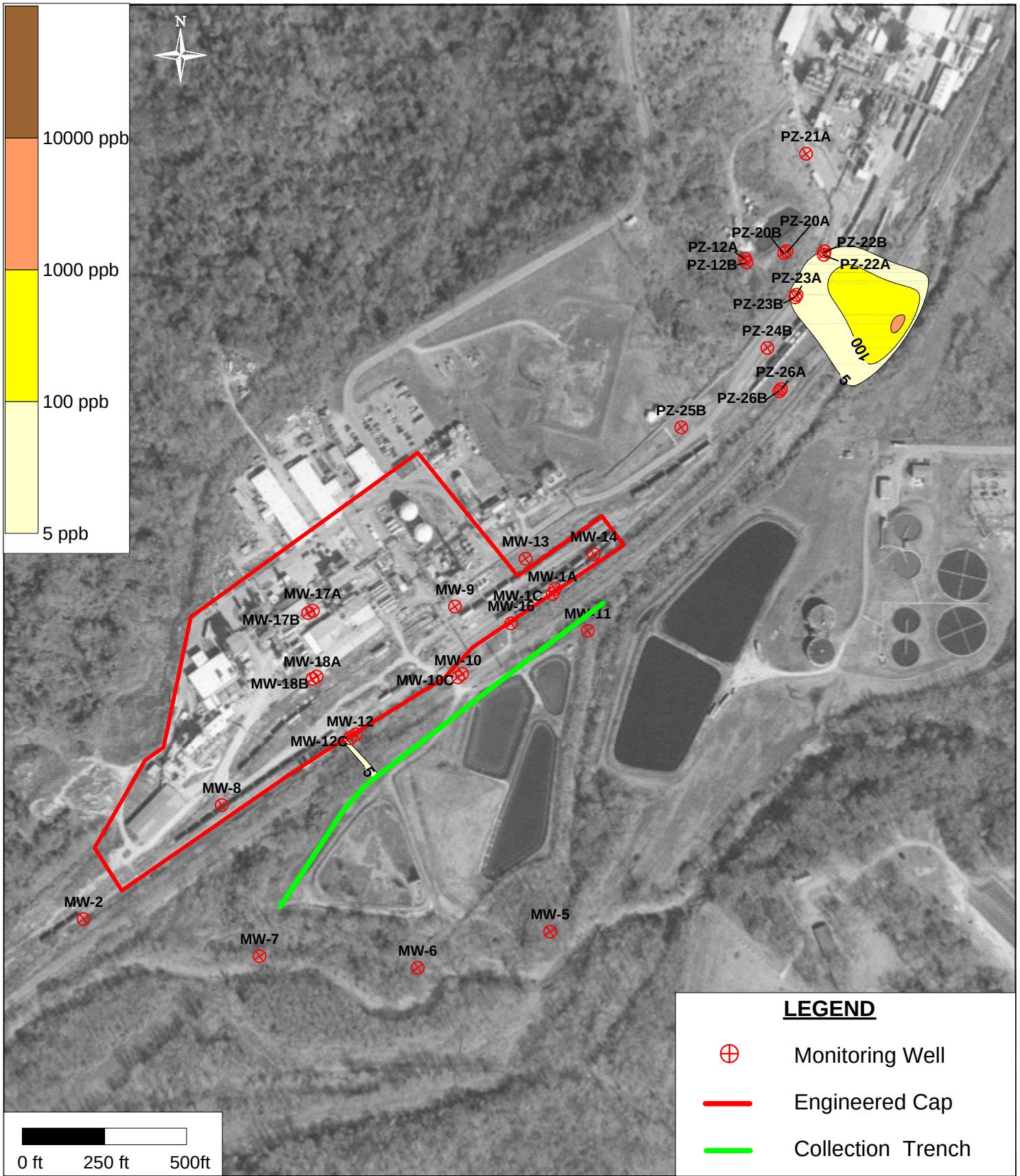
VICKSBURG, MISSISSIPPI

Project Number	LA002656.0001
Drawing Date	22 JAN 2008
Figure	59



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Chloroform Concentrations
Layer 2, Year 50, Scenario 4

VICKSBURG CHEMICAL COMPANY
VICKSBURG, MISSISSIPPI

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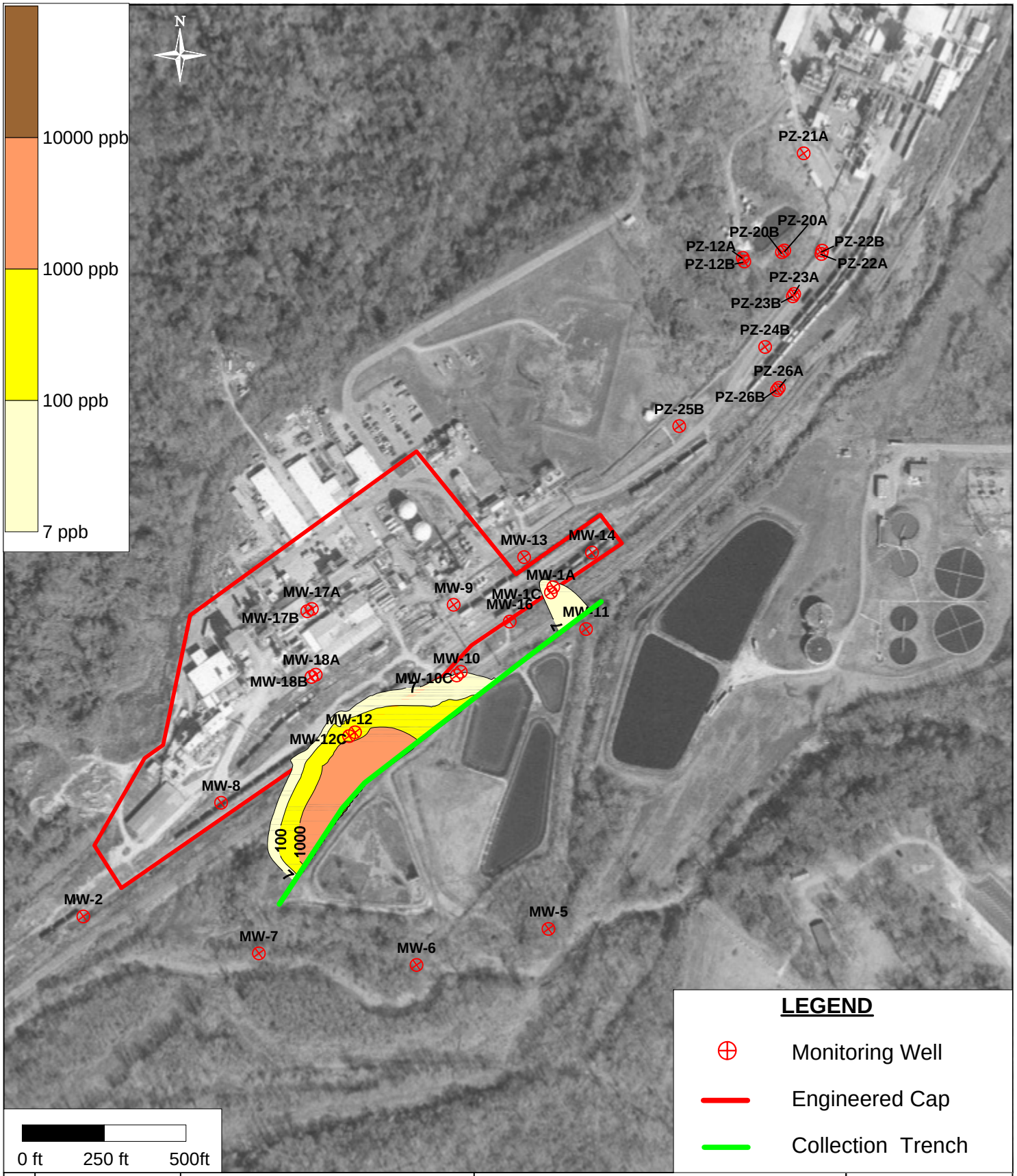
Drawing Date	22 JAN 2008
Figure	60



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Dinoseb Concentrations
Layer 2, Year 10, Scenario 4

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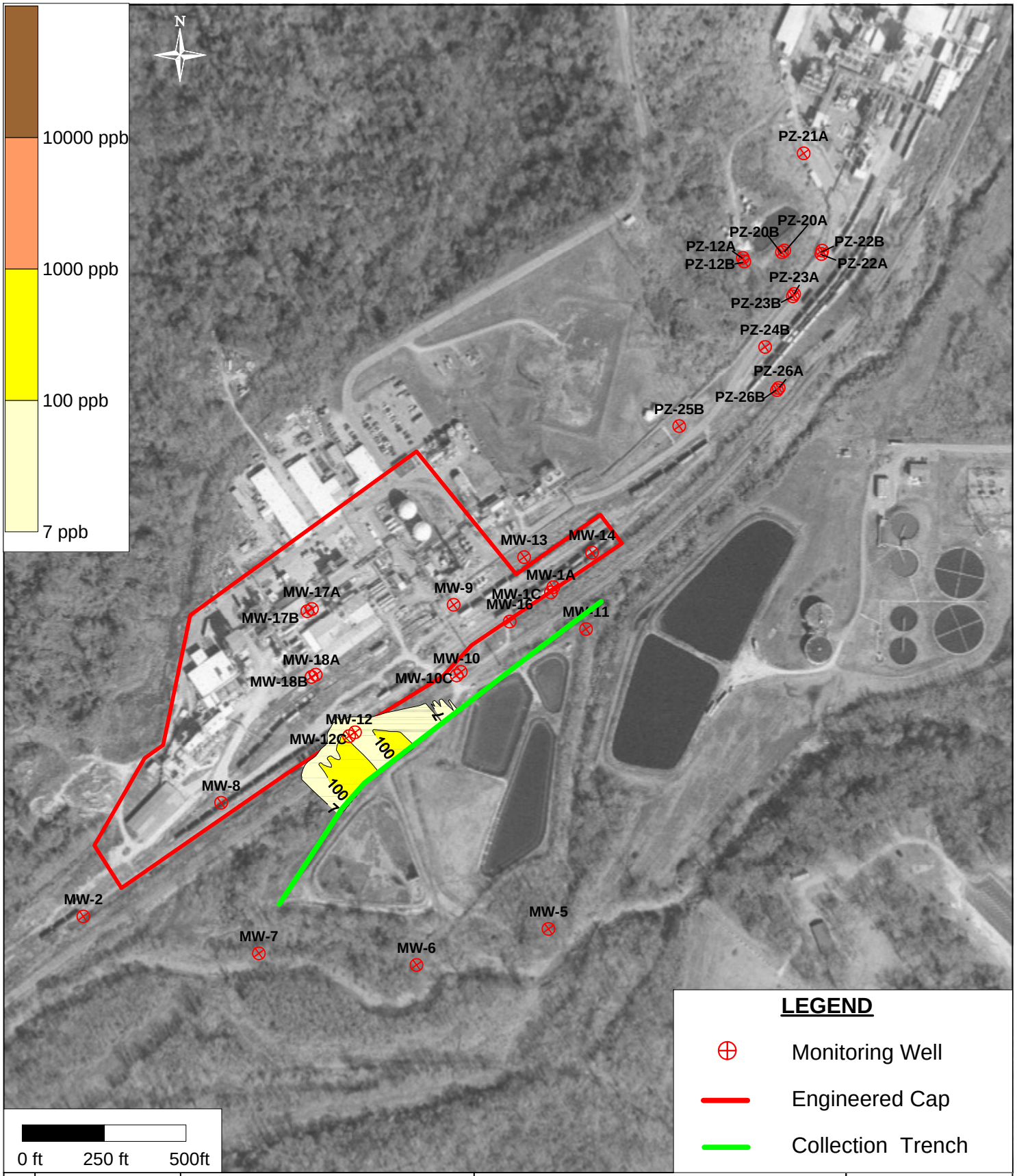
VICKSBURG, MISSISSIPPI

Project Number	LA002656.0001
Drawing Date	22 JAN 2008
Figure	61



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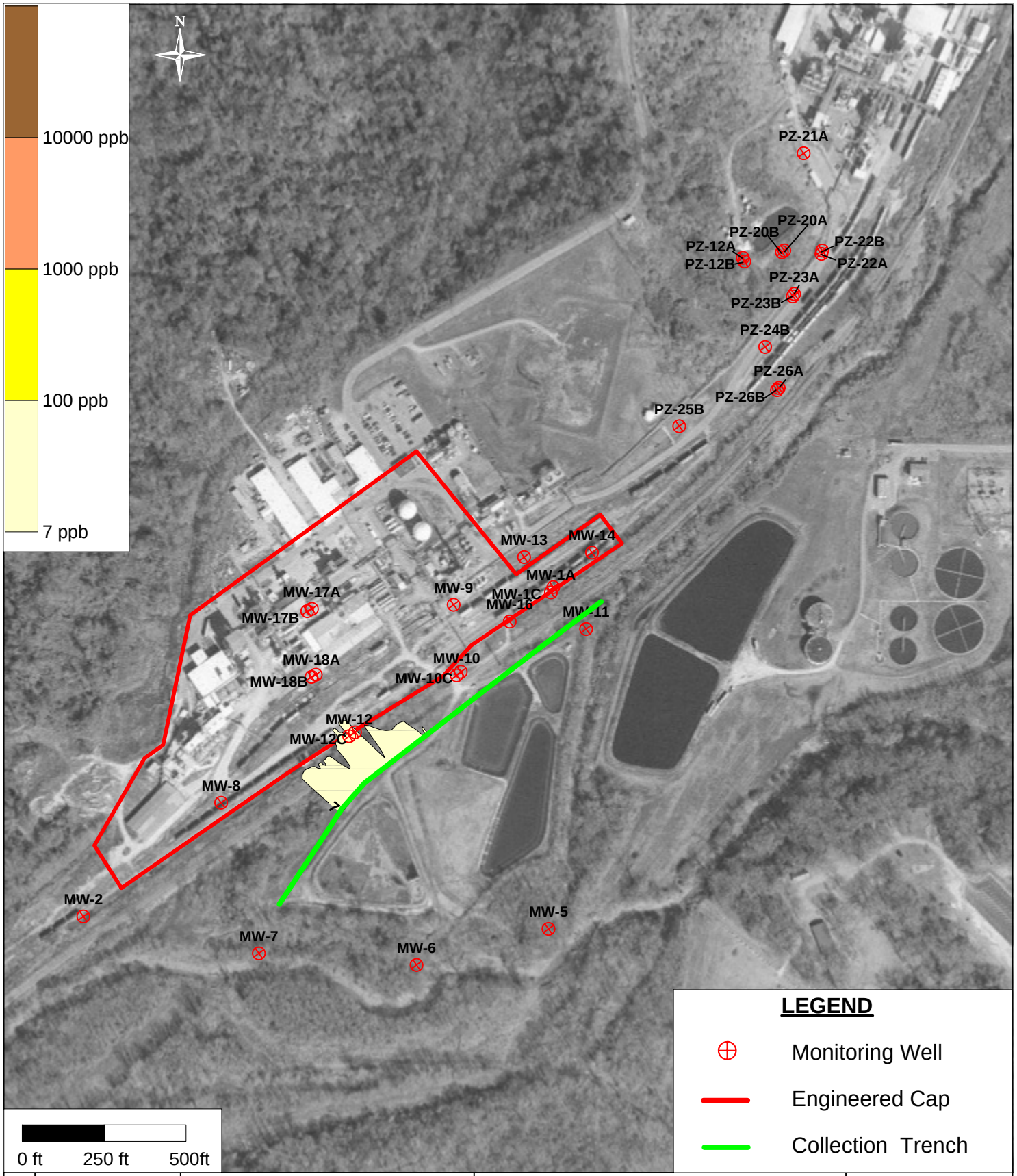
Dinoseb Concentrations
Layer 2, Year 30, Scenario 4

VICKSBURG CHEMICAL COMPANY
VICKSBURG, MISSISSIPPI

Project Number	LA002656.0001
Drawing Date	22 JAN 2008
Figure	62



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Dinoseb Concentrations
Layer 2, Year 50, Scenario 4

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VICKSBURG, MISSISSIPPI

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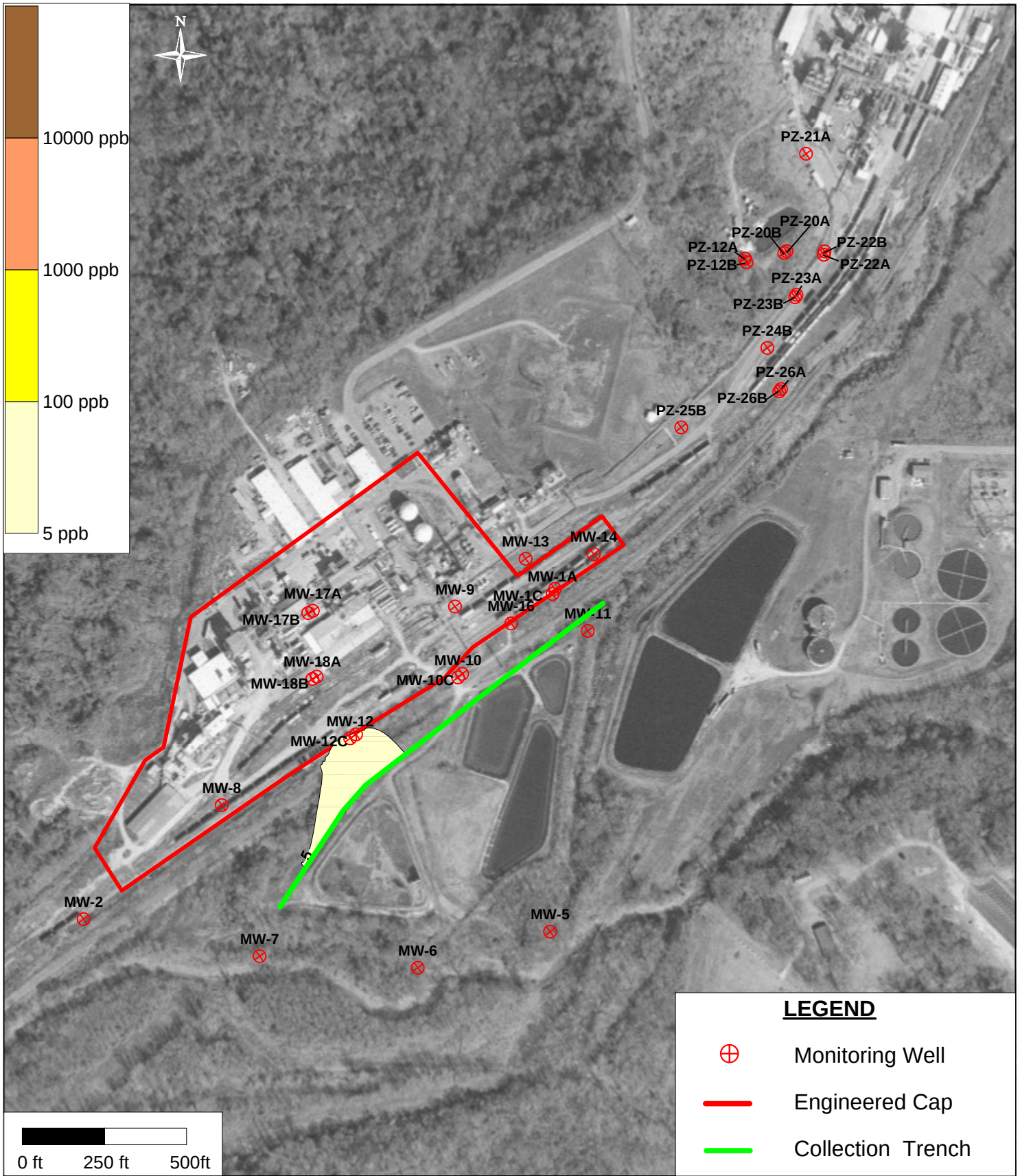
Drawing Date	22 JAN 2008
Figure	63



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TCE Concentrations
Layer 2, Year 10, Scenario 4

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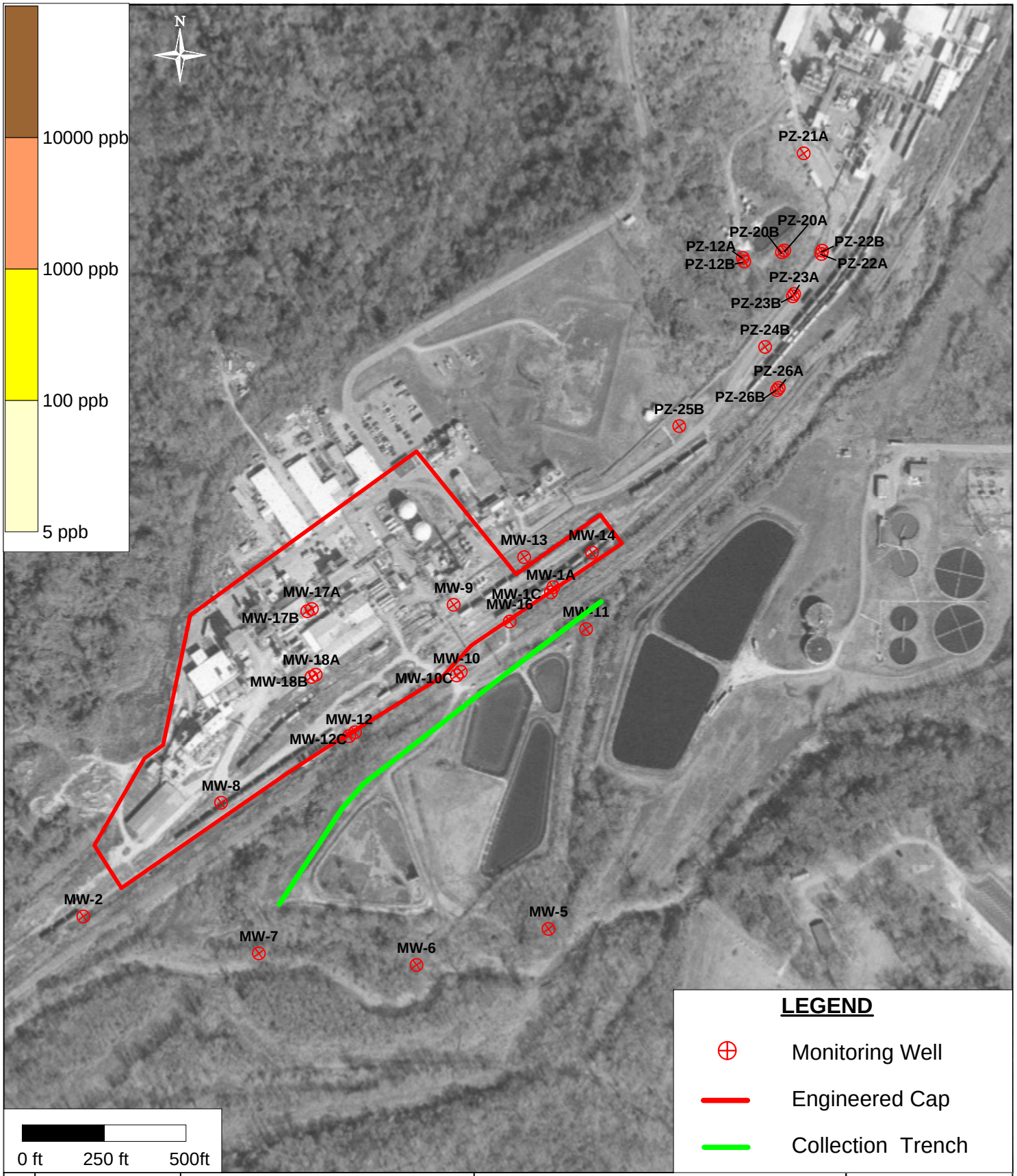
VICKSBURG, MISSISSIPPI

Project Number	LA002656.0001
Drawing Date	22 JAN 2008
Figure	64



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TCE Concentrations
Layer 2, Year 30, Scenario 4

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VICKSBURG, MISSISSIPPI

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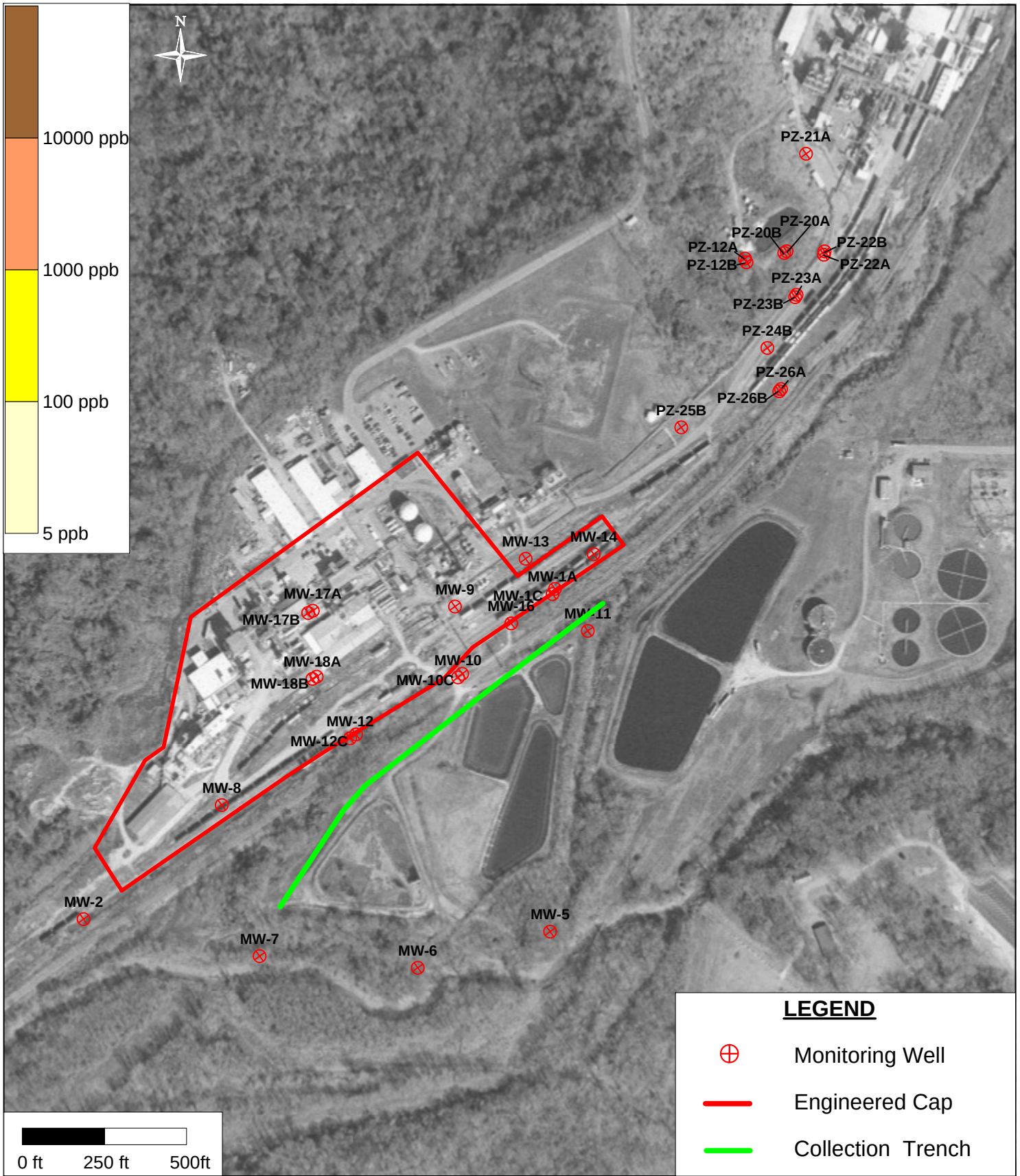
Figure	65



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TCE Concentrations
Layer 2, Year 50, Scenario 4

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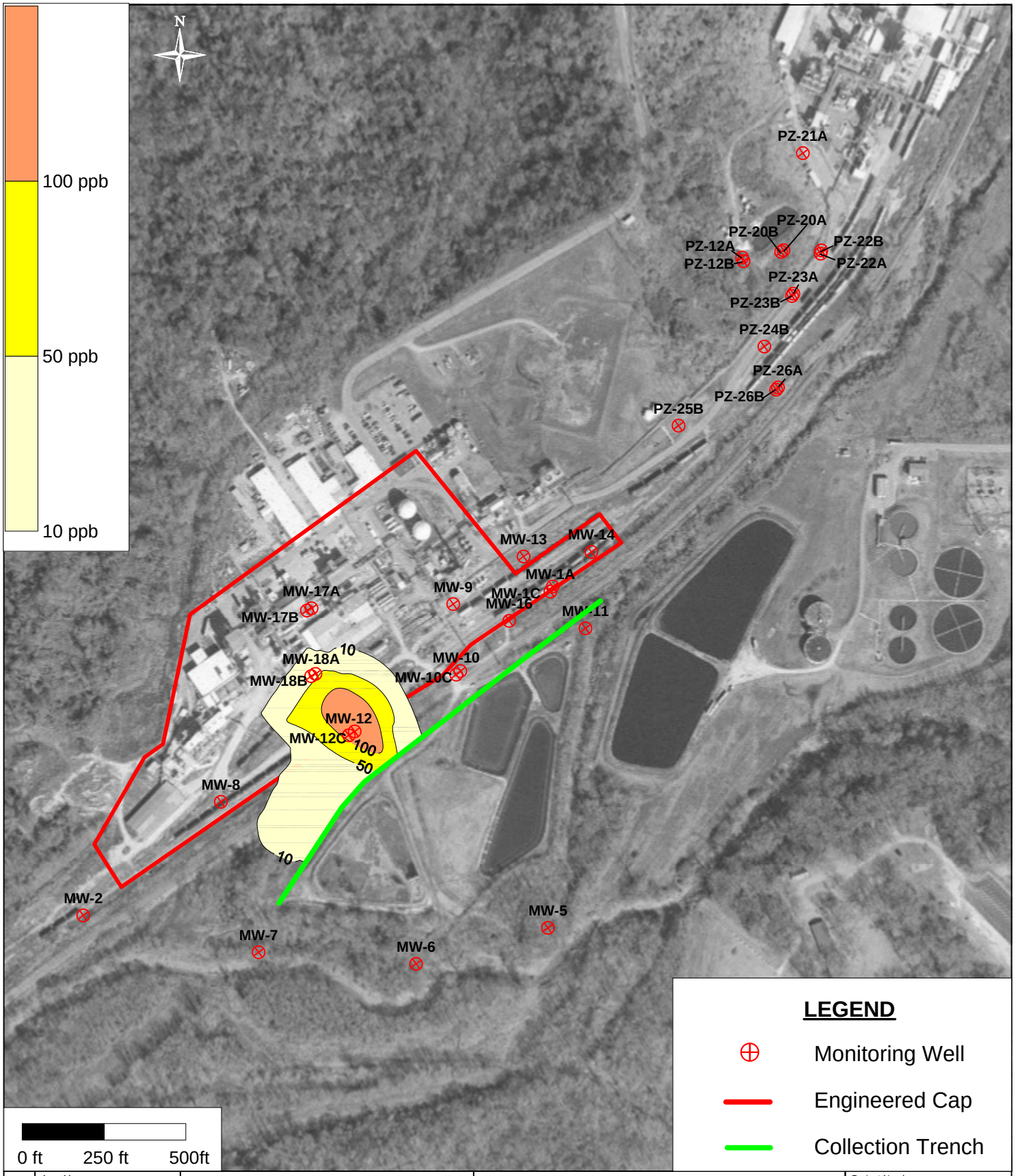
Figure	66



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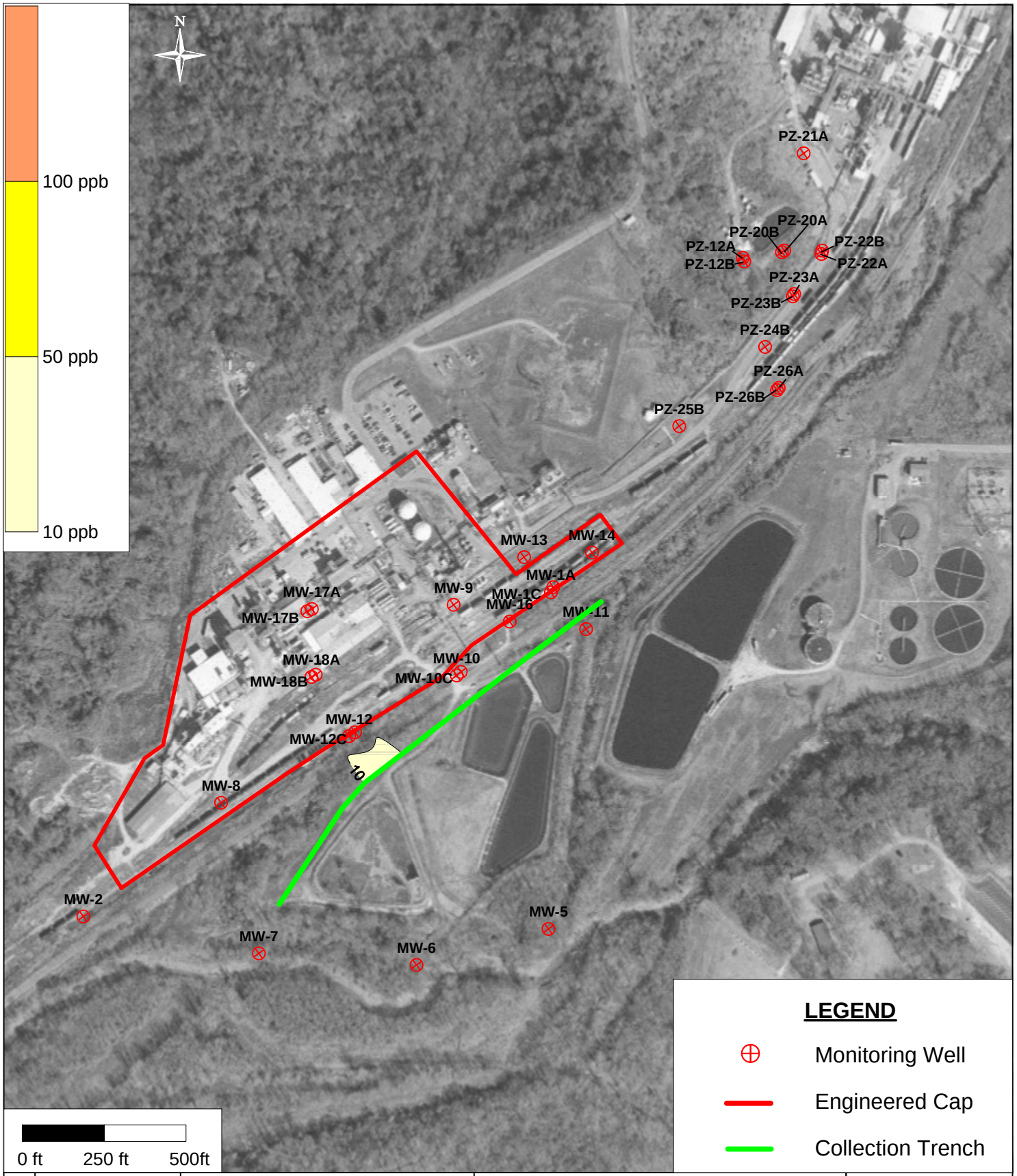
Arsenic Concentrations
Layer 2, Year 10, Scenario 4

VICKSBURG CHEMICAL COMPANY
VICKSBURG, MISSISSIPPI

Project Number	LA002656.0001
Drawing Date	22 JAN 2008
Figure	67



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Arsenic Concentrations
Layer 2, Year 30, Scenario 4

VICKSBURG CHEMICAL COMPANY
VICKSBURG, MISSISSIPPI

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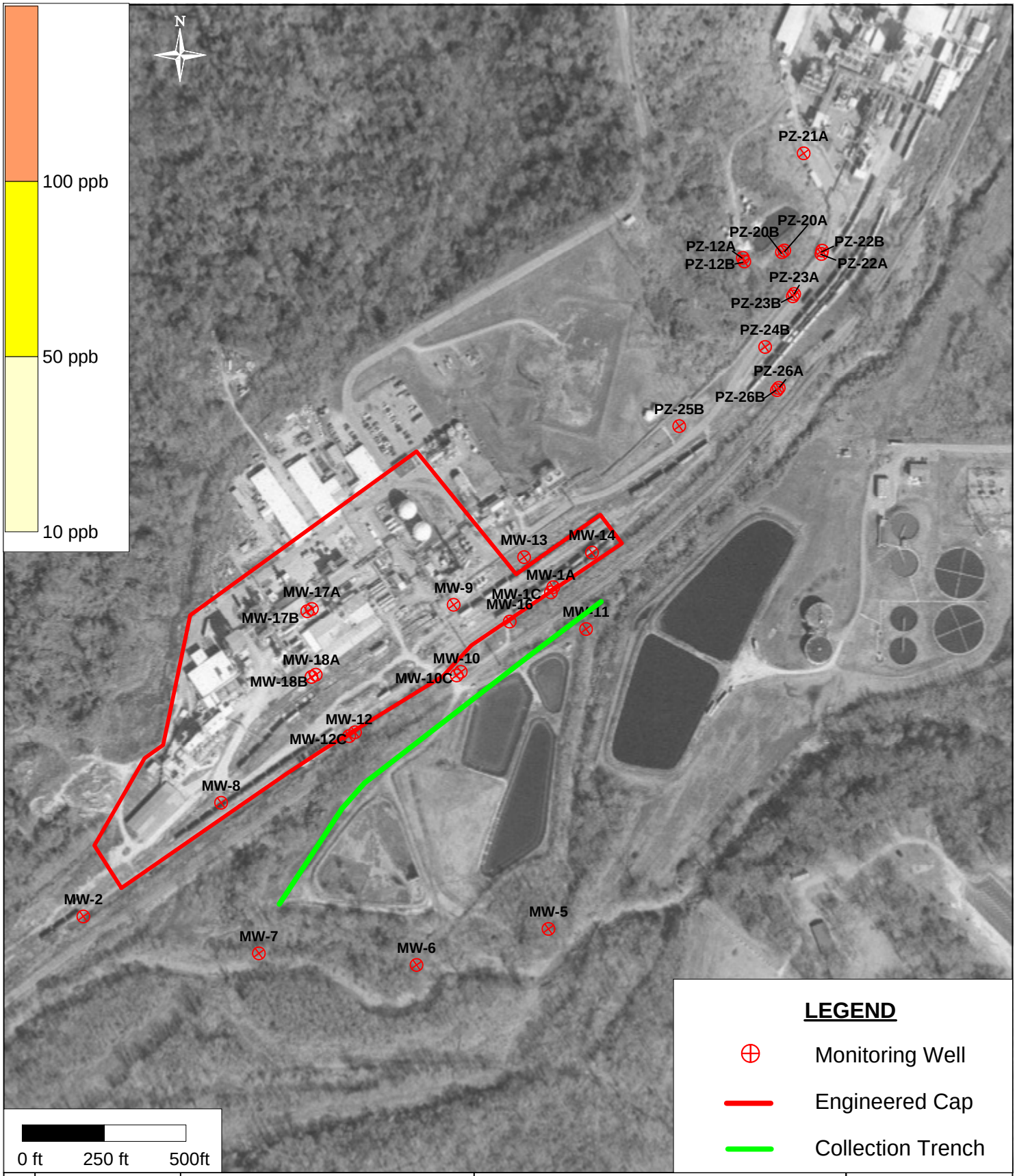
Drawing Date	22 JAN 2008
Figure	68



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Arsenic Concentrations
Layer 2, Year 50, Scenario 4

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