CEDAR CHEMICAL CORPORATION

24th Floor • 5100 Poplar Avenue • Memphis, TN 38137 • 901-685-5348

REPLY TO: P.O. BOX 821003
VICKSBURG, MS 39182
(601) 636-1231

CERTIFIED MAIL
RETURN RECEIPT REQUESTED
P 861 004 542

Mr. Jerry Banks, P.E.
Env. Engineer
MS Dept. of Env. Quality
2380 U.S. Highway 80 West
Jackson, MS 39204

January 5, 1993

Re: Cedar Chemical Corporation
Groundwater Monitoring, 4th Quarter, 1992

Dear Mr. Banks:

As required by Commission Order 1253 87, please find enclosed the results of the latest sampling conducted. Please contact me with any questions there may be.

Sincerely,

DUK

David U. Keen
Envr. Spec.

DUK: pc

xc: Mr. Miles
Mr. Madsen

Enclosure

CEDAR CHEMICAL CORPORATION

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REPLY TO: P.O. BOX 821003
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(601) 636-1231

Cedar Chemical Corporation
Groundwater Sampling
12/13/92

Well No.	Water Elevation, MSL
1A	108.23'
2	99.92'
3	not sampled
4	107.64'
5	84.69'
6	88.51'
7	93.33'
8	103.13'
9	110.79'
10	107.39'
11	97.93'
12	109.2'
13	109.34'
14	107.23'
16	108.72'

4th Quarter 1992

MONITORING WELL SAMPLE LOG

WELL NUMBER	ELEVATION TOP OF CASING	DATE	TIME	INIT H2O LEVEL Depth FEET	Conduct.	OPER	WEATHER COND BAR PRESS/TEMP	PROBE RINSED	CLARITY OF WELL
1A	111.41	12/13/92	1355	3.18		DG	partly cloudy, cool, 30.06	yes	clear
2	109.27		1315	9.35					
3	101.12								
4	112.11		1435	4.47					
5	101.5		1415	16.81					
6	101.05		1420	12.54					
7	100.47		1425	2.14					
8	109.66		1320	6.53					
9	116.14		1345	5.35					
10	114.53		1330	7.14					
11	105.23		1335	7.30					
12	111.86		1325	2.66					
13	113.52		1400	4.18					
14	113.9		1350	6.67					
16	111.84		1340	3.12					

COMMENTS:

wells 4,5,6,7,8 - bailed or pumped to dryness

Gallons pumped: 1A - 60
2 - 65
8 - 11
9 - 100
10 - 95
11 - 85
12 - 95
13 - 95
14 - 105
16 - 100

Analytical**Technologies,**Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

CEDAR CHEMICAL
P. O. BOX 821003

VICKSBURG MS 39182-1003

Lab I.D.#: 92-10345
Order Number: P66924
Received Date: 12/15/92
Client: 02111
Sampled By: D. GREEN
Sample Date: 12/13/92
Sample Time: PM

Project Number: GW-4-92
Project Name: 4TH QTR GW SAMPLING
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

N/S = Not Submitted

Lab ID	Sample ID	Parameter	Units	Results	Detection Limit
10345-1	1A(@MS)	ARSENIC	PPM	BDL	0.005
10345-2	2	ARSENIC	PPM	BDL	0.005
10345-3	4(@MS)	ARSENIC	PPM	BDL	0.005
10345-4	5	ARSENIC	PPM	0.008	0.005
10345-5	6	ARSENIC	PPM	BDL	0.005
10345-6	7	ARSENIC	PPM	0.020	0.005
10345-7	8	ARSENIC	PPM	0.062	0.005
10345-8	9	ARSENIC	PPM	BDL	0.005
10345-9	10	ARSENIC	PPM	0.007	0.005
10345-10	11	ARSENIC	PPM	BDL	0.005
10345-11	12	ARSENIC	PPM	0.013	0.005
10345-12	13	ARSENIC	PPM	0.006	0.005
10345-13	14	ARSENIC	PPM	BDL	0.005
10345-14	16	ARSENIC	PPM	0.008	0.005
10345-1	1A(@MS)	DINOSEB	PPB	84	5
10345-2	2	DINOSEB	PPB	BDL	5
10345-3	4(@MS)	DINOSEB	PPB	BDL	5
10345-4	5	DINOSEB	PPB	BDL	5
10345-5	6	DINOSEB	PPB	BDL	5
10345-6	7	DINOSEB	PPB	BDL	5
10345-7	8	DINOSEB	PPB	BDL	5
10345-8	9	DINOSEB	PPB	BDL	5
10345-9	10	DINOSEB	PPB	BDL	5
10345-10	11	DINOSEB	PPB	BDL	5
10345-11	12	DINOSEB	PPB	BDL	5
10345-12	13	DINOSEB	PPB	BDL	5
10345-13	14	DINOSEB	PPB	BDL	5
10345-14	16	DINOSEB	PPB	BDL	5
10345-1	1A(@MS)	TOXAPHENE	PPB	BDL	0.5
10345-2	2	TOXAPHENE	PPB	BDL	0.5
10345-3	4(@MS)	TOXAPHENE	PPB	BDL	0.5

Comments: PPM = Parts Per Million, mg/l. PPB = Parts Per Billion, ug/l.
Method References: EPA 600/4-79-020, Revised March 1983 and SW-846, 3rd Edition, November 1986. BDL = Below Detection Limit.

Approved By : _____

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: GW-4-92
Project Name: 4TH QTR GW SAMPLING
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 92-10345
Received Date: 12/15/92
Sampled By: D. GREEN

Single Tests continued Sample Date: 12/13/92 Time: PM

Lab ID	Sample ID	Parameter	Units	Results	Detection Limit
10345-4	5	TOXAPHENE	PPB	BDL	0.5
10345-5	6	TOXAPHENE	PPB	4.7	0.5
10345-6	7	TOXAPHENE	PPB	BDL	0.5
10345-7	8	TOXAPHENE	PPB	BDL	0.5
10345-8	9	TOXAPHENE	PPB	BDL	0.5
10345-9	10	TOXAPHENE	PPB	BDL	0.5
10345-10	11	TOXAPHENE	PPB	BDL	0.5
10345-11	12	TOXAPHENE	PPB	BDL	0.5
10345-12	13	TOXAPHENE	PPB	BDL	0.5
10345-13	14	TOXAPHENE	PPB	BDL	0.5
10345-14	16	TOXAPHENE	PPB	BDL	0.5

Analytical**Technologies,**Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: GW-4-92
Project Name: 4TH QTR GW SAMPLING
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 92-10345-1
Received Date: 12/15/92
Sampled By: D. GREEN

Sample ID.: 1A(@MS) Sample Date: 12/13/92 Time: PM

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 1A(@MS) Test Parameters continued on next page

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Lab I.D.#: 92-10345-1
Received Date: 12/15/92
Sampled By: D. GREEN

Project Number: GW-4-92
Project Name: 4TH QTR GW SAMPLING
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

Sample ID.: 1A(@MS) Sample Date: 12/13/92 Time: PM

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	8	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	2
BROMOFLUOROBENZENE *SURR*	% REC	103	
1,2-DICHLOROETHANE D4 *SURR*	% REC	97	
TOLUENE D8 *SURR*	% REC	100	

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: GW-4-92
Project Name: 4TH QTR GW SAMPLING
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 92-10345-2
Received Date: 12/15/92
Sampled By: D. GREEN

Sample ID.: 2 Sample Date: 12/13/92 Time: PM

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	10	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 2 Test Parameters continued on next page

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: GW-4-92
Project Name: 4TH QTR GW SAMPLING
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 92-10345-2
Received Date: 12/15/92
Sampled By: D. GREEN

Sample ID.: 2 Sample Date: 12/13/92 Time: PM

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	2
BROMOFLUOROBENZENE *SURR*	% REC	94	
1,2-DICHLOROETHANE D4 *SURR*	% REC	90	
TOLUENE D8 *SURR*	% REC	104	

Analytical**Technologies,**Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: GW-4-92
Project Name: 4TH QTR GW SAMPLING
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 92-10345-3
Received Date: 12/15/92
Sampled By: D. GREEN

Sample ID.: 4(@MS) Sample Date: 12/13/92 Time: PM

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	5	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 4(@MS)

Test Parameters continued on next page

Analytical**Technologies,**Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: GW-4-92
Project Name: 4TH QTR GW SAMPLING
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 92-10345-3
Received Date: 12/15/92
Sampled By: D. GREEN

Sample ID.: 4(@MS) Sample Date: 12/13/92 Time: PM

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	2
BROMOFLUOROBENZENE *SURR*	% REC	96	
1,2-DICHLOROETHANE D4 *SURR*	% REC	99	
TOLUENE D8 *SURR*	% REC	98	

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Lab I.D.#: 92-10345-4
Received Date: 12/15/92
Sampled By: D. GREEN

Project Number: GW-4-92
Project Name: 4TH QTR GW SAMPLING
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

Sample ID.: 5 Sample Date: 12/13/92 Time: PM

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 5 Test Parameters continued on next page

Analytical**Technologies,**Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: GW-4-92
Project Name: 4TH QTR GW SAMPLING
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 92-10345-4
Received Date: 12/15/92
Sampled By: D. GREEN

Sample ID.: 5 Sample Date: 12/13/92 Time: PM

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	2
BROMOFLUOROBENZENE *SURR*	% REC	99	
1,2-DICHLOROETHANE D4 *SURR*	% REC	101	
TOLUENE D8 *SURR*	% REC	100	

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: GW-4-92
Project Name: 4TH QTR GW SAMPLING
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 92-10345-5
Received Date: 12/15/92
Sampled By: D. GREEN

Sample ID.: 6 Sample Date: 12/13/92 Time: PM

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 6 Test Parameters continued on next page

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: GW-4-92
Project Name: 4TH QTR GW SAMPLING
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 92-10345-5
Received Date: 12/15/92
Sampled By: D. GREEN

Sample ID.: 6 Sample Date: 12/13/92 Time: PM

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	2	1
TOTAL XYLENES	PPB	BDL	2
BROMOFLUOROBENZENE *SURR*	% REC	96	
1,2-DICHLOROETHANE D4 *SURR*	% REC	96	
TOLUENE D8 *SURR*	% REC	102	

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: GW-4-92
Project Name: 4TH QTR GW SAMPLING
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 92-10345-6
Received Date: 12/15/92
Sampled By: D. GREEN

Sample ID.: 7 Sample Date: 12/13/92 Time: PM

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Test Parameters continued on next page

AnalyticalTechnologies,Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: GW-4-92
Project Name: 4TH QTR GW SAMPLING
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 92-10345-6
Received Date: 12/15/92
Sampled By: D. GREEN

Sample ID.: 7 Sample Date: 12/13/92 Time: PM

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	2
BROMOFLUOROBENZENE *SURR*	% REC	100	
1,2-DICHLOROETHANE D4 *SURR*	% REC	94	
TOLUENE D8 *SURR*	% REC	102	

AnalyticalTechnologies,Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: GW-4-92
Project Name: 4TH QTR GW SAMPLING
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 92-10345-7
Received Date: 12/15/92
Sampled By: D. GREEN

Sample ID.: 8 Sample Date: 12/13/92 Time: PM

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 8 Test Parameters continued on next page

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: GW-4-92
Project Name: 4TH QTR GW SAMPLING
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 92-10345-7
Received Date: 12/15/92
Sampled By: D. GREEN

Sample ID.: 8 Sample Date: 12/13/92 Time: PM

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	2	1
TOTAL XYLENES	PPB	BDL	2
BROMOFLUOROBENZENE *SURR*	% REC	97	
1,2-DICHLOROETHANE D4 *SURR*	% REC	87	
TOLUENE D8 *SURR*	% REC	104	

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: GW-4-92
Project Name: 4TH QTR GW SAMPLING
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 92-10345-8
Received Date: 12/15/92
Sampled By: D. GREEN

Sample ID.: 9 Sample Date: 12/13/92 Time: PM

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Test Parameters continued on next page

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: GW-4-92
Project Name: 4TH QTR GW SAMPLING
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 92-10345-8
Received Date: 12/15/92
Sampled By: D. GREEN

Sample ID.: 9 Sample Date: 12/13/92 Time: PM

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	2
BROMOFLUOROBENZENE *SURR*	% REC	99	
1,2-DICHLOROETHANE D4 *SURR*	% REC	93	
TOLUENE D8 *SURR*	% REC	101	

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Client: CEDAR CHEMICAL

Project Number: GW-4-92
Project Name: 4TH QTR GW SAMPLING
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 92-10345-9
Received Date: 12/15/92
Sampled By: D. GREEN

Sample ID.: 10 Sample Date: 12/13/92 Time: PM

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 10 Test Parameters continued on next page

Analytical**Technologies,**Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: GW-4-92
Project Name: 4TH QTR GW SAMPLING
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 92-10345-9
Received Date: 12/15/92
Sampled By: D. GREEN

Sample ID.: 10 Sample Date: 12/13/92 Time: PM

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	2
BROMOFLUOROBENZENE *SURR*	% REC	101	
1,2-DICHLOROETHANE D4 *SURR*	% REC	89	
TOLUENE D8 *SURR*	% REC	104	

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Client: CEDAR CHEMICAL

Project Number: GW-4-92
Project Name: 4TH QTR GW SAMPLING
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 92-10345-10
Received Date: 12/15/92
Sampled By: D. GREEN

Sample ID.: 11 Sample Date: 12/13/92 Time: PM

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Test Parameters continued on next page

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: GW-4-92
Project Name: 4TH QTR GW SAMPLING
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 92-10345-10
Received Date: 12/15/92
Sampled By: D. GREEN

Sample ID.: 11 Sample Date: 12/13/92 Time: PM

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	20	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	2
BROMOFLUOROBENZENE *SURR*	% REC	98	
1,2-DICHLOROETHANE D4 *SURR*	% REC	89	
TOLUENE D8 *SURR*	% REC	102	

AnalyticalTechnologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Lab I.D.#: 92-10345-11
Received Date: 12/15/92
Sampled By: D. GREEN

Project Number: GW-4-92
Project Name: 4TH QTR GW SAMPLING
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

Sample ID.: 12 Sample Date: 12/13/92 Time: PM

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 12 Test Parameters continued on next page

Analytical**Technologies,**Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: GW-4-92
Project Name: 4TH QTR GW SAMPLING
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 92-10345-11
Received Date: 12/15/92
Sampled By: D. GREEN

Sample ID.: 12 Sample Date: 12/13/92 Time: PM

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	2
BROMOFLUOROBENZENE *SURR*	% REC	99	
1,2-DICHLOROETHANE D4 *SURR*	% REC	88	
TOLUENE D8 *SURR*	% REC	104	

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: GW-4-92
Project Name: 4TH QTR GW SAMPLING
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 92-10345-12
Received Date: 12/15/92
Sampled By: D. GREEN

Sample ID.: 13 Sample Date: 12/13/92 Time: PM

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Test Parameters continued on next page

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: GW-4-92
Project Name: 4TH QTR GW SAMPLING
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 92-10345-12
Received Date: 12/15/92
Sampled By: D. GREEN

Sample ID.: 13 Sample Date: 12/13/92 Time: PM

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	2
BROMOFLUOROBENZENE *SURR*	% REC	103	
1,2-DICHLOROETHANE D4 *SURR*	% REC	89	
TOLUENE D8 *SURR*	% REC	101	

AnalyticalTechnologies,Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Lab I.D.#: 92-10345-13
Received Date: 12/15/92
Sampled By: D. GREEN

Project Number: GW-4-92
Project Name: 4TH QTR GW SAMPLING
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

Sample ID.: 14 Sample Date: 12/13/92 Time: PM

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 14 Test Parameters continued on next page

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: GW-4-92
Project Name: 4TH QTR GW SAMPLING
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 92-10345-13
Received Date: 12/15/92
Sampled By: D. GREEN

Sample ID.: 14 Sample Date: 12/13/92 Time: PM

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	2
BROMOFLUOROBENZENE *SURR*	% REC	95	
1,2-DICHLOROETHANE D4 *SURR*	% REC	94	
TOLUENE D8 *SURR*	% REC	99	

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: GW-4-92
Project Name: 4TH QTR GW SAMPLING
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 92-10345-14
Received Date: 12/15/92
Sampled By: D. GREEN

Sample ID.: 16 Sample Date: 12/13/92 Time: PM

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 16 Test Parameters continued on next page

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: GW-4-92
Project Name: 4TH QTR GW SAMPLING
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 92-10345-14
Received Date: 12/15/92
Sampled By: D. GREEN

Sample ID.: 16 Sample Date: 12/13/92 Time: PM

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	2
BROMOFLUOROBENZENE *SURR*	% REC	100	
1,2-DICHLOROETHANE D4 *SURR*	% REC	88	
TOLUENE D8 *SURR*	% REC	102	

AnalyticalTechnologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: GW-4-92
Project Name: 4TH QTR GW SAMPLING
Sample Site: VICKSBURG PLANT
Sample Type: WATER

Lab I.D.#: 92-10345-15
Received Date: 12/15/92
Sampled By: D. GREEN

Sample ID.: TRIP BLANK Sample Date: 12/13/92 Time: PM

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: TRIP BLANK Test Parameters continued on next page

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: GW-4-92
Project Name: 4TH QTR GW SAMPLING
Sample Site: VICKSBURG PLANT
Sample Type: WATER

Lab I.D.#: 92-10345-15
Received Date: 12/15/92
Sampled By: D. GREEN

Sample ID.: TRIP BLANK Sample Date: 12/13/92 Time: PM

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	2
BROMOFLUOROBENZENE *SURR*	% REC	99	
1,2-DICHLOROETHANE D4 *SURR*	% REC	90	
TOLUENE D8 *SURR*	% REC	101	

end of report

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

INORGANICS

CLIENT NAME: CEDAR CHEMICAL

PROJECT: GW-4-92

LAB ID: 92-10345

QC LEVEL: II

LAB ID	CLIENT ID	LAB ID	CLIENT ID
92-10345-1	1A(@MS)	92-10345-8	9
92-10345-2	2	92-10345-9	10
92-10345-3	4(@MS)	92-10345-10	11
92-10345-4	5	92-10345-11	12
92-10345-5	6	92-10345-12	13
92-10345-6	7	92-10345-13	14
92-10345-7	8	92-10345-14	16

Notes: PPM = Parts Per Million, mg/l.
BDL = Below Detection Limit.
Control limits are from ATI's internal quality assurance program and the referenced method.
See final report for actual sample detection limit(s).

Reference: EPA 600/4-79-020, Revised March 1983.

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

LAB ID: 92-10345

PARAMETER	PREPARATION DATE	ANALYSIS DATE	BATCH#	METHOD	BLANK DETECTION LIMIT	BLANK RESULT	DUPLIC SAMPLE RESULT	DUPLIC RESULT	RPD SAMPLE	MAX RPD	SAMPLE RESULT	SPIKED SAMPLE RESULT	SPIKE ADDED	%REC MS	%REC CONTROL LIMITS
ARSENIC	12-16-92	12-16-92	As01692C	206.2	0.005	BDL	BDL	BDL	N/C	0.005	BDL	0.044	0.040	110	75-125

PARAMETER	ICV RESULT	TRUE ICV RESULT	%REC QC	%REC CONTROL LIMITS	LCS RESULT	TRUE LCS RESULT	LCS %REC	LCS CONTROL LIMITS	SAMPLE DUPLIC	SAMPLE DUP DETECTION LIMIT	SAMPLE SPIKED	SAMPLE SPK DETECTION LIMIT
ARSENIC	0.040	0.040	100	90-110	0.043	0.040	108	80-120	10345-1	0.005	10345-1	0.005

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

EXPLANATION OF INORGANIC FOOTNOTES

N/A = NOT APPLICABLE.
N/S = NOT SUBMITTED.
N/C = SAMPLE AND DUPLICATE RESULTS ARE AT OR BELOW ATI METHOD DETECTION LIMIT; THEREFORE, THE RPD IS "NOT CALCULABLE" AND NO CONTROL LIMITS APPLY.
N/D = NOT DETECTED.
DISS. OR D = DISSOLVED
T & D = TOTAL AND DISSOLVED
R = REACTIVE
T = TOTAL
G = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X ATI METHOD DETECTION LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE RESULT IS AT OR BELOW ATI METHOD DETECTION LIMIT; THEREFORE, THE RESULTS ARE "IN CONTROL".
Q = THE ANALYTICAL (POST-DIGESTION) SPIKE IS REPORTED DUE TO FAILURE OF THE MATRIX (PRE-DIGESTION) SPIKE.
# = ELEVATED DETECTION LIMIT DUE TO INSUFFICIENT SAMPLE.
+ = ELEVATED DETECTION LIMIT DUE TO DILUTION INTO CALIBRATION RANGE.
* = ELEVATED DETECTION LIMIT DUE TO MATRIX INTERFERENCE.
@ = ADJUSTED DETECTION LIMIT DUE TO SAMPLE MATRIX.
P = ANALYTICAL (POST-DIGESTION) SPIKE
I = DUPLICATE INJECTION
& = AUTOMATED
F = SAMPLE SPIKED > 4 X SPIKE CONCENTRATION.
N/C+ = NOT CALCULABLE
N/C* = NOT CALCULABLE; SAMPLE SPIKED > 4 X SPIKE CONCENTRATION.
H = SAMPLE AND/OR DUPLICATE IS BELOW 5 X ATI METHOD DETECTION LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE ATI METHOD DETECTION LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL"; SAMPLE IS NON-HOMOGENEOUS.
A = SAMPLE AND DUPLICATE RESULTS ARE "OUT OF CONTROL"; SAMPLE IS NON-HOMOGENEOUS.
Z = ELEVATED DETECTION LIMIT - HISTORICAL BOD DATA NOT AVAILABLE TO SELECT PROPER SAMPLE DILUTIONS.

AnalyticalTechnologies,Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

CLIENT: CEDAR CHEMICAL

PROJECT: GW-4-92

LAB ID: 10345

METHOD: 8240 / SW 846, 3rd Edition, November 1986

QC LEVEL: II

LAB ID:	CLIENT ID:	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	QC BATCH	QC BLANK
10345-1	1A(@MS)	12-13-92	12-15-92	N/A	12-19-92	NW0139	A
10345-2	2	12-13-92	12-15-92	N/A	12-19-92	NW0139	A
10345-3	4(@MS)	12-13-92	12-15-92	N/A	12-19-92	NW0139	A
10345-4	5	12-13-92	12-15-92	N/A	12-19-92	NW0139	A
10345-5	6	12-13-92	12-15-92	N/A	12-19-92	NW0139	B
10345-6	7	12-13-92	12-15-92	N/A	12-19-92	NW0139	B
10345-7	8	12-13-92	12-15-92	N/A	12-20-92	NW0139	B
10345-8	9	12-13-92	12-15-92	N/A	12-20-92	NW0139	B
10345-9	10	12-13-92	12-15-92	N/A	12-20-92	NW0139	B
10345-10	11	12-13-92	12-15-92	N/A	12-20-92	NW0139	B
10345-11	12	12-13-92	12-15-92	N/A	12-20-92	NW0139	B
10345-12	13	12-13-92	12-15-92	N/A	12-20-92	NW0139	B
10345-13	14	12-13-92	12-15-92	N/A	12-20-92	NW0139	B
10345-14	16	12-13-92	12-15-92	N/A	12-20-92	NW0139	B
10345-15	TRIP BLANK	12-13-92	12-15-92	N/A	12-20-92	NW0139	B

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METHOD INSTRUMENT BLANK

BATCH NUMBER: NW0139

PARAMETERS	DETECTION LIMIT	BLANK A	BLANK B
EXTRACTION DATE		N/A	N/A
ANALYSIS DATE		12-19-92	12-19-92
		RESULTS	RESULTS
ACETONE	10	BDL	BDL
ACROLEIN	100	BDL	BDL
ACRYLONITRILE	100	BDL	BDL
BENZENE	1	BDL	BDL
BROMODICHLOROMETHANE	1	BDL	BDL
BROMOFORM	2	BDL	BDL
BROMOMETHANE	1	BDL	BDL
2-BUTANONE (MEK)	3	BDL	BDL
CARBON DISULFIDE	1	BDL	BDL
CARBON TETRACHLORIDE	2	BDL	BDL
CHLOROBENZENE	1	BDL	BDL
CHLOROETHANE	1	BDL	BDL
2-CHLOROETHYLVINYL ETHER	5	BDL	BDL
CHLOROFORM	2	BDL	BDL
CHLOROMETHANE	2	BDL	BDL
DIBROMOCHLOROMETHANE	5	BDL	BDL
DIBROMOMETHANE	5	BDL	BDL
DICHLORODIFLUOROMETHANE	5	BDL	BDL
1,1-DICHLOROETHANE	1	BDL	BDL
1,2-DICHLOROETHANE	2	BDL	BDL
1,1-DICHLOROETHENE	1	BDL	BDL
TOTAL 1,2-DICHLOROETHYLENE	5	BDL	BDL
1,2-DICHLOROPROPANE	2	BDL	BDL
CIS-1,3-DICHLOROPROPENE	1	BDL	BDL
TRANS-1,3-DICHLOROPROPENE	1	BDL	BDL
1,4-DICHLORO-2-BUTENE	5	BDL	BDL
ETHANOL	50	BDL	BDL
ETHYL BENZENE	1	BDL	BDL
ETHYL METHACRYLATE	5	BDL	BDL
2-HEXANONE	3	BDL	BDL
IODOMETHANE	5	BDL	BDL
METHYLENE CHLORIDE	5	BDL	BDL
4-METHYL-2-PENTANONE	3	BDL	BDL
STYRENE	2	BDL	BDL

NOTE: Units in ug/l = Part Per Billion.
BDL = Below Detection limit.
Source for control limits is internal laboratory quality assurance program and the method reference.
N/S = NOT SUBMITTED N/A = NOT APPLICABLE

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

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BATCH NUMBER: NW0139

PARAMETERS	DETECTION LIMIT	BLANK A	BLANK B
EXTRACTION DATE		N/A	N/A
ANALYSIS DATE		12-19-92	12-19-92
		RESULTS	RESULTS
1,1,2,2-TETRACHLOROETHANE	2	BDL	BDL
TETRACHLOROETHENE	1	BDL	BDL
TOLUENE	5	BDL	BDL
1,1,1-TRICHLOROETHANE	5	BDL	BDL
1,1,2-TRICHLOROETHANE	2	BDL	BDL
TRICHLOROETHENE	1	BDL	BDL
TRICHLOROFLUOROMETHANE	1	BDL	BDL
1,2,3-TRICHLOROPROPANE	5	BDL	BDL
VINYL ACETATE	2	BDL	BDL
VINYL CHLORIDE	1	BDL	BDL
METHYL TERT-BUTYL ETHER	10	BDL	BDL
XYLENES	4	BDL	BDL
[redacted]-DICHLOROBENZENE	5	BDL	BDL
[redacted]-DICHLOROBENZENE	5	BDL	BDL
1,4-DICHLOROBENZENE	5	BDL	BDL
1,2-DICHLOROETHANE - D4	(87-106)	100	94
TOLUENE - D8	(91-108)	100	101
BROMOFLUOROBENZENE	(93-107)	100	99

NOTE: Units in ug/l = Part Per Billion.
BDL = Below Detection limit.
Source for control limits is internal laboratory quality assurance program and the method reference.
N/S = NOT SUBMITTED N/A = NOT APPLICABLE

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BATCH NUMBER: NW0139

PARAMETERS	DETECTION LIMIT	BLANK C	BLANK D
EXTRACTION DATE		N/A	N/A
ANALYSIS DATE		12-20-92	N/A
		RESULTS	RESULTS
ACETONE	10	BDL	BDL
ACROLEIN	100	BDL	BDL
ACRYLONITRILE	100	BDL	BDL
BENZENE	1	BDL	BDL
BROMODICHLOROMETHANE	1	BDL	BDL
BROMOFORM	2	BDL	BDL
BROMOMETHANE	1	BDL	BDL
2-BUTANONE (MEK)	3	BDL	BDL
CARBON DISULFIDE	1	BDL	BDL
CARBON TETRACHLORIDE	2	BDL	BDL
CHLOROBENZENE	1	BDL	BDL
CHLOROETHANE	1	BDL	BDL
2-CHLOROETHYLVINYL ETHER	5	BDL	BDL
[redacted]OROFORM	2	BDL	BDL
[redacted]OROMETHANE	2	BDL	BDL
DIBROMOCHLOROMETHANE	5	BDL	BDL
DIBROMOMETHANE	5	BDL	BDL
DICHLORODIFLUOROMETHANE	5	BDL	BDL
1,1-DICHLOROETHANE	1	BDL	BDL
1,2-DICHLOROETHANE	2	BDL	BDL
1,1-DICHLOROETHENE	1	BDL	BDL
TOTAL 1,2-DICHLOROETHYLENE	5	BDL	BDL
1,2-DICHLOROPROPANE	2	BDL	BDL
CIS-1,3-DICHLOROPROPENE	1	BDL	BDL
TRANS-1,3-DICHLOROPROPENE	1	BDL	BDL
1,4-DICHLORO-2-BUTENE	5	BDL	BDL
ETHANOL	50	BDL	BDL
ETHYL BENZENE	1	BDL	BDL
ETHYL METHACRYLATE	5	BDL	BDL
2-HEXANONE	3	BDL	BDL
IODOMETHANE	5	BDL	BDL
METHYLENE CHLORIDE	5	BDL	BDL
4-METHYL-2-PENTANONE	3	BDL	BDL
STYRENE	2	BDL	BDL

NOTE: Units in ug/l = Part Per Billion.
BDL = Below Detection limit.
Source for control limits is internal laboratory quality assurance program and the method reference.
N/S = NOT SUBMITTED N/A = NOT APPLICABLE

AnalyticalTechnologies,Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

METHOD INSTRUMENT BLANK

BATCH NUMBER: NW0139

PARAMETERS	DETECTION LIMIT	BLANK C	BLANK D
EXTRACTION DATE		N/A	N/A
ANALYSIS DATE		12-20-92	N/A
		RESULTS	RESULTS
1,1,2,2-TETRACHLOROETHANE	2	BDL	BDL
TETRACHLOROETHENE	1	BDL	BDL
TOLUENE	5	BDL	BDL
1,1,1-TRICHLOROETHANE	5	BDL	BDL
1,1,2-TRICHLOROETHANE	2	BDL	BDL
TRICHLOROETHENE	1	BDL	BDL
TRICHLOROFLUOROMETHANE	1	BDL	BDL
1,2,3-TRICHLOROPROPANE	5	BDL	BDL
VINYL ACETATE	2	BDL	BDL
VINYL CHLORIDE	1	BDL	BDL
METHYL TERT-BUTYL ETHER	10	BDL	BDL
XYLENES	4	BDL	BDL
1,3-DICHLOROBENZENE	5	BDL	BDL
1,2-DICHLOROBENZENE	5	BDL	BDL
1,4-DICHLOROBENZENE	5	BDL	BDL
1,2-DICHLOROETHANE - D4	(76-114)	102	N/A
TOLUENE - D8	(88-110)	106	N/A
BROMOFLUOROBENZENE	(86-115)	104	N/A

NOTE: Units in ug/l = Part Per Billion.
BDL = Below Detection limit.
Source for control limits is internal laboratory quality assurance program and the method reference.
N/S = NOT SUBMITTED N/A = NOT APPLICABLE

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

ER MATRIX SPIKE

BATCH NUMBER: NW0139 SAMPLE SPIKED: 10345-5

COMPOUNDS	SPIKE ADDED	SAMPLE CONC	MS CONC	MS REC%#	REC LIMITS
1,1-DICHLOROETHENE	50	BDL	54	108	76-120
TRICHLOROETHENE	50	BDL	48	96	86-104
BENZENE	50	BDL	48	96	92-104
TOLUENE	50	BDL	51	102	84-114
CHLOROBENZENE	50	BDL	49	98	88-111

COMPOUNDS	SPIKE ADDED	SAMPLE CONC	MSD CONC	MSD REC%#	RPD#	QC LIMITS RPD	QC LIMITS REC
1,1-DICHLOROETHENE	50	BDL	51	102	6	14	76-120
TRICHLOROETHENE	50	BDL	47	94	2	14	86-104
BENZENE	50	BDL	47	94	2	11	92-104
TOLUENE	50	BDL	48	96	6	13	84-114
CHLOROBENZENE	50	BDL	47	94	4	13	88-111

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

0 out of 10 % recoveries out of limits
0 out of 6 surrogate recoveries out of limits
0 out of 5 RPD's out of limits

ITEM ID:	ANALYSIS DATE	SURROGATE RECOVERY S1	S2	S3
MS	12-20-92	98 %	103%	99 %
MSD	12-20-92	102%	100%	102%

D = DILUTED OUT

NOTE: Units in ug/l = Parts Per Billion.
BDL = Below Detection Limit.
Source for control limits is internal laboratory quality assurance program and method reference.

	QC LIMITS
S1 = 1,2-DICHLOROETHANE - D4	(87-106)
S2 = TOLUENE - D8	(91-108)
S3 = BROMOFLUOROBENZENE	(93-107)

COMMENTS: _____

_____

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

CLIENT: CEDAR CHEMICAL

PROJECT: GW-4-92

LAB ID: 10345

METHOD: 8150 / SW 846, 3rd Edition, November 1986.

QC LEVEL: II

LAB ID:	CLIENT ID:	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	QC BATCH	QC BLANK
10345-1	1A(@MS)	12-13-92	12-15-92	12-16-92	12-20-92	HEW080	A
10345-2	2	12-13-92	12-15-92	12-16-92	12-20-92	HEW080	A
10345-3	4(@MS)	12-13-92	12-15-92	12-16-92	12-20-92	HEW080	A
10345-4	5	12-13-92	12-15-92	12-16-92	12-20-92	HEW080	A
10345-5	6	12-13-92	12-15-92	12-16-92	12-20-92	HEW080	A
10345-6	7	12-13-92	12-15-92	12-16-92	12-20-92	HEW080	A
10345-7	8	12-13-92	12-15-92	12-16-92	12-20-92	HEW080	A
10345-8	9	12-13-92	12-15-92	12-16-92	12-20-92	HEW080	A
10345-9	10	12-13-92	12-15-92	12-16-92	12-20-92	HEW080	A
10345-10	11	12-13-92	12-15-92	12-16-92	12-20-92	HEW080	A
10345-11	12	12-13-92	12-15-92	12-16-92	12-20-92	HEW080	A
10345-12	13	12-13-92	12-15-92	12-16-92	12-20-92	HEW080	A
10345-13	14	12-13-92	12-15-92	12-16-92	12-20-92	HEW080	A
10345-14	16	12-13-92	12-15-92	12-16-92	12-20-92	HEW080	A

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

METHOD EXTRACTION BLANK / HERBICIDE

BATCH NUMBER: HEW080

METHOD: 8150 / SW 846, 3rd Edition, November 1986.

HERBICIDE PARAMETERS	DETECTION LIMIT		BLANK A	BLANK B	BLANK C
		ANALYSIS DATE EXTRACTION DATE	12-20-92 12-16-92	12-21-92 12-17-92	N/A N/A
			RESULTS	RESULTS	RESULTS
DALAPON	60		BDL	BDL	BDL
DICAMBA	3.0		BDL	BDL	BDL
DICHLOROPROP	6.0		BDL	BDL	BDL
DINOSEB	1.0		BDL	BDL	BDL
MCPA	2500		BDL	BDL	BDL
MCPP	2500		BDL	BDL	BDL
2,4,5-T	2.0		BDL	BDL	BDL
2,4,5,TRICHLO-ROPHENOXY (SILVEX)	2.0		BDL	BDL	BDL
2,4-D ACID-HERBICIDE	10		BDL	BDL	BDL
2,4-DB	1.0		BDL	BDL	BDL
DCAA *SURR* LIMITS	(60-150)		75	79	N/A

NOTE: Units in ug/l = Part Per Billion.
BDL = Below Detection limit.
Source for control limits is internal laboratory quality assurance program and the method reference.
Samples within the same calibration period may display different dates due to operation past midnight.

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

WATER MATRIX SPIKE / HERBICIDE

BATCH NUMBER: HEW080 SAMPLE SPIKED: 10345-1

METHOD: 8150 / SW 846, 3rd Edition, November 1986.

COMPOUNDS	SPIKE ADDED	SAMPLE CONC	MS CONC	MS REC%#	REC LIMITS
2,4-D (@)	2.00	BDL	1.42	71	28-125
2,4,5-TP; SILVEX	2.00	BDL	2.50	125	37-128

COMPOUNDS	SPIKE ADDED	SAMPLE CONC	MSD CONC	MSD REC%#	% RPD#	QC LIMITS RPD	QC LIMITS REC
2,4-D (@)	2.00	BDL	1.32	66	7	69	28-150
2,4,5-TP; SILVEX	2.00	BDL	2.50	125	0	58	37-128

@ = 2,4-DICHLOROPHENOXY-ACETIC ACID

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

ITEM ID:	ANALYSIS DATE	EXTRACTION DATE	SURROGATE RECOVERY	QC LIMITS
MS	12-20-92	12-16-92	230	60-150
MSD	12-20-92	12-16-92	217	60-150

D = DILUTED OUT

NOTE: Units in ug/l = Parts Per Billion.
BDL = Below Detection Limit.
Source for control limits is internal laboratory quality assurance program and method reference.

COMMENTS: * MATRIX INTERFERENCE.

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

CLIENT: CEDAR CHEMICAL

PROJECT: GW-4-92

LAB ID: 10345

METHOD: 608 / Federal Register, 40 CFR, Part 136, July 1, 1990.

QC LEVEL: II

LAB ID:	CLIENT ID:	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	QC BATCH	QC BLANK
10345-1	1A(@MS)	12-13-92	12-15-92	12-18-92	12-22-92	PSW298	A
10345-2	2	12-13-92	12-15-92	12-18-92	12-22-92	PSW298	A
10345-3	4(@MS)	12-13-92	12-15-92	12-18-92	12-22-92	PSW298	A
10345-4	5	12-13-92	12-15-92	12-18-92	12-22-92	PSW298	A
10345-5	6	12-13-92	12-15-92	12-18-92	12-22-92	PSW298	A
10345-6	7	12-13-92	12-15-92	12-18-92	12-22-92	PSW298	A
10345-7	8	12-13-92	12-15-92	12-18-92	12-22-92	PSW298	A
10345-8	9	12-13-92	12-15-92	12-18-92	12-22-92	PSW298	A
10345-9	10	12-13-92	12-15-92	12-18-92	12-22-92	PSW298	A
10345-10	11	12-13-92	12-15-92	12-18-92	12-22-92	PSW298	A
10345-11	12	12-13-92	12-15-92	12-18-92	12-22-92	PSW298	A
10345-12	13	12-13-92	12-15-92	12-18-92	12-22-92	PSW298	A
10345-13	14	12-13-92	12-15-92	12-18-92	12-22-92	PSW298	A
10345-14	16	12-13-92	12-15-92	12-18-92	12-22-92	PSW298	A

AnalyticalTechnologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

METHOD EXTRACTION BLANK / PESTICIDE

BATCH NUMBER: PSW298

METHOD: 608 / Federal Register, 40 CFR, Part 136, July 1, 1990.

PESTICIDE PARAMETERS	DETECTION LIMIT	BLANK A	BLANK B	BLANK C
ANALYSIS DATE		12-21-92	N/A	N/A
EXTRACTION DATE		12-20-92	N/A	N/A
		RESULTS	RESULTS	RESULTS
ALDRIN	0.05	BDL	BDL	BDL
ALPHA-BHC	0.05	BDL	BDL	BDL
BETA-BHC	0.05	BDL	BDL	BDL
DELTA-BHC	0.05	BDL	BDL	BDL
GAMMA-BHC(LINDANE)	0.05	BDL	BDL	BDL
CHLORDANE	0.05	BDL	BDL	BDL
4,4'-DDD	0.10	BDL	BDL	BDL
4,4'-DDE	0.10	BDL	BDL	BDL
4,4'-DDT	0.10	BDL	BDL	BDL
DIELDRIN	0.10	BDL	BDL	BDL
ENDOSULFAN I	0.05	BDL	BDL	BDL
ENDOSULFAN II	0.10	BDL	BDL	BDL
ENDOSULFAN SULFATE	0.10	BDL	BDL	BDL
ENDRIN	0.10	BDL	BDL	BDL
[illegible]DRIN ALDEHYDE	0.10	BDL	BDL	BDL
[illegible]PTACHLOR	0.05	BDL	BDL	BDL
HEPTACHLOR EPOXIDE	0.05	BDL	BDL	BDL
PCB-1016	0.5	BDL	BDL	BDL
PCB-1221	0.5	BDL	BDL	BDL
PCB-1232	0.5	BDL	BDL	BDL
PCB-1242	0.5	BDL	BDL	BDL
PCB-1248	0.5	BDL	BDL	BDL
PCB-1254	1.0	BDL	BDL	BDL
PCB-1260	1.0	BDL	BDL	BDL
TOXAPHENE	1.0	BDL	BDL	BDL
DCB *SURR*	(22-147)	70	N/A	N/A
TCMX *SURR*	(14-134)	67	N/A	N/A

NOTE: Units in ug/l = Part Per Billion.
BDL = Below Detection limit.
Source for control limits is internal laboratory quality assurance program and the method reference.
Samples within the same calibration period may display different dates due to operation past midnight.

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

WATER MATRIX SPIKE / PESTICIDE

BATCH NUMBER: PSW298 SAMPLE SPIKED: 10345-3

METHOD: 608 / Federal Register, 40 CFR, Part 136, July 1, 1990.

COMPOUNDS	SPIKE ADDED	SAMPLE CONC	MS CONC	MS REC%#	REC LIMITS
LINDANE	0.50	BDL	.50	100	52-164
HEPTACHLOR	0.50	BDL	.50	100	57-160
ALDRIN	0.50	BDL	.50	100	37-157
DIELDRIN	1.25	BDL	1.25	100	39-162
ENDRIN	1.25	BDL	1.25	100	32-184
DDT	1.25	BDL	1.25	100	50-167

COMPOUNDS	SPIKE ADDED	SAMPLE CONC	MSD CONC	MSD REC%#	% RPD#	QC LIMITS RPD	QC LIMITS REC
LINDANE	0.50	BDL	.50	100	0	37	52-164
HEPTACHLOR	0.50	BDL	.50	100	0	46	57-160
ALDRIN	0.50	BDL	.50	100	0	46	37-157
DIELDRIN	1.25	BDL	1.25	100	0	41	39-162
ENDRIN	1.25	BDL	1.25	100	0	40	32-184
DDT	1.25	BDL	1.25	100	0	34	50-167

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

ITEM ID:	ANALYSIS DATE	EXTRACTION DATE	SURROGATE RECOVERY S1	S2
SPK	12-23-92	12-18-92	70 %	67 %
SPD	12-23-92	12-18-92	77 %	67 %

D = DILUTED OUT

NOTE: Units in ug/l = Parts Per Billion.
BDL = Below Detection Limit.
Source for control limits is internal laboratory quality assurance program and method reference.

	QC LIMITS
S1 = DCB	(22-147)
S2 = TCMX	(14-134)

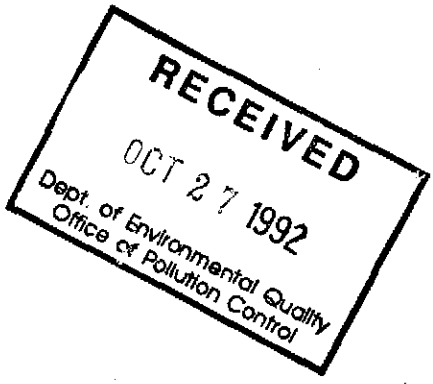
COMMENTS: _____

CEDAR CHEMICAL CORPORATION

24th Floor • 5100 Poplar Avenue • Memphis, TN 38137 • 901-685-5348

REPLY TO: P.O. BOX 821003
VICKSBURG, MS 39182
(601) 636-1231

CERTIFIED MAIL
RETURN RECEIPT REQUESTED
P 413 276 318



Mr. Jerry Banks, P.E.
Env. Engineer
MS Dept. of Env. Quality
2380 U.S. Highway 80 West
Jackson, MS 39204

October 22, 1992

Re: Cedar Chemical Corporation
Groundwater Monitoring, 3rd Quarter, 1992

Dear Mr. Banks:

As required by Commission Order 1253 87, please find enclosed the results of the latest sampling conducted. Please contact me with any questions there may be.

Sincerely,

DUK

David U. Keen
Envr. Spec.

DUK: pc

xc: Mr. Miles
Mr. Madsen

Enclosure

CEDAR CHEMICAL CORPORATION

24th Floor • 5100 Poplar Avenue • Memphis, TN 38137 • 901-685-5348

REPLY TO: P.O. BOX 821003
VICKSBURG, MS 39182
(601) 636-1231

Cedar Chemical Corporation
Groundwater Sampling
9/25/92

Well No.	Water Elevation, MSL
1A	108.66'
2	99.42'
3	not sampled
4	107.79'
5	87.9'
6	89.05'
7	94.46'
8	98.76'
9	110.67'
10	107.22'
11	98.8'
12	109.82'
13	109.08'
14	107.94'
16	108.66'

AnalyticalTechnologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

CEDAR CHEMICAL
P. O. BOX 821003

VICKSBURG MS 39182-1003

Lab I.D.#: 92-8345
Order Number: P64051
Received Date: 09/30/92
Client: 02111
Sampled By: D. GREEN
Sample Date: 09/28/92
Sample Time: PM

Project Number: PO 01-093004
Project Name: 3RD QTR GROUNDWATER SAMPLING
Sample Site: VICKSBURG, MS
Sample Type: GROUNDWATER

N/S = Not Submitted

Lab ID	Sample ID	Parameter	Units	Results	Detection Limit
8345-1	1A	ARSENIC 0.0105 mg/l - IRIS	PPM	BDL	0.005
8345-2	2	ARSENIC 0.05 - MCL	PPM	BDL	0.005
8345-3	4	ARSENIC	PPM	BDL	0.005
8345-4	5	ARSENIC	PPM	0.005	0.005
8345-5	6	ARSENIC	PPM	BDL	0.005
8345-6	7	ARSENIC	PPM	0.014	0.005
8345-7	8	ARSENIC	PPM	0.051	0.005
8345-8	9	ARSENIC	PPM	BDL	0.005
8345-9	10	ARSENIC	PPM	0.006	0.005
8345-10	11	ARSENIC	PPM	BDL	0.005
8345-11	12	ARSENIC	PPM	0.011	0.005
8345-12	13	ARSENIC	PPM	BDL	0.005
8345-13	14	ARSENIC	PPM	BDL	0.005
8345-14	16	ARSENIC	PPM	0.005	0.005
8345-1	1A	DINOSEB 0.035 - IRIS	PPB	164 J	5
8345-2	2	DINOSEB	PPB	BDL	5
8345-3	4	DINOSEB	PPB	BDL	5
8345-4	5	DINOSEB	PPB	BDL	5
8345-5	6	DINOSEB	PPB	BDL	5
8345-6	7	DINOSEB	PPB	BDL	5
8345-7	8	DINOSEB	PPB	BDL	5
8345-8	9	DINOSEB	PPB	BDL	5
8345-9	10	DINOSEB	PPB	BDL	5
8345-10	11	DINOSEB	PPB	BDL	5
8345-11	12	DINOSEB	PPB	BDL	5
8345-12	13	DINOSEB	PPB	BDL	5
8345-13	14	DINOSEB	PPB	BDL	5
8345-14	16	DINOSEB	PPB	BDL	5
8345-1	1A	TOXAPHENE 0.003 MCL	PPB	BDL	0.5
8345-2	2	TOXAPHENE	PPB	BDL	0.5
8345-3	4	TOXAPHENE	PPB	BDL	0.5

Comments: PPM = Parts Per Million, mg/l. PPB = Parts Per Billion, ug/l. Method Refs: EPA 600/4-79-020, 3/83, SW-846, 3rd Edition, 11/86 and Fed Reg 40 CFR Part 136, 7/1/90. BDL = Below Detection Limits. J = Estimated Value due to Matrix Interference.

Approved By :

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL
Lab I.D.#: 92-8345
Received Date: 09/30/92
Project Number: PO 01-093004
Sampled By: D. GREEN
Project Name: 3RD QTR GROUNDWATER SAMPLING
Sample Site: VICKSBURG, MS
Sample Type: GROUNDWATER

Single Tests continued Sample Date: 09/28/92 Time: PM

Lab ID	Sample ID	Parameter	Units	Results	Detection Limit
8345-4	5	TOXAPHENE	PPB	BDL	0.5
8345-5	6	TOXAPHENE	PPB	2.5	0.5
8345-6	7	TOXAPHENE	PPB	BDL	0.5
8345-7	8	TOXAPHENE	PPB	BDL	0.5
8345-8	9	TOXAPHENE	PPB	BDL	0.5
8345-9	10	TOXAPHENE	PPB	BDL	0.5
8345-10	11	TOXAPHENE	PPB	BDL	0.5
8345-11	12	TOXAPHENE	PPB	BDL	0.5
8345-12	13	TOXAPHENE	PPB	BDL	0.5
8345-13	14	TOXAPHENE	PPB	BDL	0.5
8345-14	16	TOXAPHENE	PPB	BDL	0.5

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL
Lab I.D.#: 92-8345-1
Received Date: 09/30/92
Project Number: PO 01-093004
Sampled By: D. GREEN
Project Name: 3RD QTR GROUNDWATER SAMPLING
Sample Site: VICKSBURG, MS
Sample Type: GROUNDWATER

Sample ID.: 1A Sample Date: 09/28/92 Time: PM

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	3	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 1A Test Parameters continued on next page

AnalyticalTechnologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL
Lab I.D.#: 92-8345-1
Received Date: 09/30/92
Project Number: PO 01-093004
Sampled By: D. GREEN
Project Name: 3RD QTR GROUNDWATER SAMPLING
Sample Site: VICKSBURG, MS
Sample Type: GROUNDWATER

Sample ID.: 1A Sample Date: 09/28/92 Time: PM

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	9 0.005 mg/l mcl	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	5 10 mg/l mcl	2
BROMOFLUOROBENZENE *SURR*	% REC	99	
1,2-DICHLOROETHANE D4 *SURR*	% REC	94	
TOLUENE D8 *SURR*	% REC	99	

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL
Lab I.D.#: 92-8345-2
Received Date: 09/30/92
Project Number: PO 01-093004
Sampled By: D. GREEN
Project Name: 3RD QTR GROUNDWATER SAMPLING
Sample Site: VICKSBURG, MS
Sample Type: GROUNDWATER

Sample ID.: 2 Sample Date: 09/28/92 Time: PM

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	✓ 9 0.005 mg/l	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 2 Test Parameters continued on next page

AnalyticalTechnologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL
Lab I.D.#: 92-8345-2
Received Date: 09/30/92
Project Number: PO 01-093004
Sampled By: D. GREEN
Project Name: 3RD QTR GROUNDWATER SAMPLING
Sample Site: VICKSBURG, MS
Sample Type: GROUNDWATER

Sample ID.: 2 Sample Date: 09/28/92 Time: PM

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	✓ 2 0.005 mg/l MCL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	2
BROMOFLUOROBENZENE *SURR*	% REC	99	
1,2-DICHLOROETHANE D4 *SURR*	% REC	94	
TOLUENE D8 *SURR*	% REC	97	

AnalyticalTechnologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL
Lab I.D.#: 92-8345-3
Received Date: 09/30/92
Project Number: PO 01-093004
Sampled By: D. GREEN
Project Name: 3RD QTR GROUNDWATER SAMPLING
Sample Site: VICKSBURG, MS
Sample Type: GROUNDWATER

Sample ID.: 4 Sample Date: 09/28/92 Time: PM

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 4 Test Parameters continued on next page

AnalyticalTechnologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL
Lab I.D.#: 92-8345-3
Received Date: 09/30/92
Project Number: PO 01-093004
Sampled By: D. GREEN
Project Name: 3RD QTR GROUNDWATER SAMPLING
Sample Site: VICKSBURG, MS
Sample Type: GROUNDWATER

Sample ID.: 4 Sample Date: 09/28/92 Time: PM

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	2
BROMOFLUOROBENZENE *SURR*	% REC	97	
1,2-DICHLOROETHANE D4 *SURR*	% REC	92	
TOLUENE D8 *SURR*	% REC	97	

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL
Lab I.D.#: 92-8345-4
Received Date: 09/30/92
Project Number: PO 01-093004
Sampled By: D. GREEN
Project Name: 3RD QTR GROUNDWATER SAMPLING
Sample Site: VICKSBURG, MS
Sample Type: GROUNDWATER

Sample ID.: 5 Sample Date: 09/28/92 Time: PM

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 5 Test Parameters continued on next page

AnalyticalTechnologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL
Lab I.D.#: 92-8345-4
Received Date: 09/30/92
Project Number: PO 01-093004
Sampled By: D. GREEN
Project Name: 3RD QTR GROUNDWATER SAMPLING
Sample Site: VICKSBURG, MS
Sample Type: GROUNDWATER

Sample ID.: 5 Sample Date: 09/28/92 Time: PM

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	2
BROMOFLUOROBENZENE *SURR*	% REC	97	
1,2-DICHLOROETHANE D4 *SURR*	% REC	93	
TOLUENE D8 *SURR*	% REC	97	

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL
Lab I.D.#: 92-8345-5
Received Date: 09/30/92
Project Number: PO 01-093004
Sampled By: D. GREEN
Project Name: 3RD QTR GROUNDWATER SAMPLING
Sample Site: VICKSBURG, MS
Sample Type: GROUNDWATER

Sample ID.: 6 Sample Date: 09/28/92 Time: PM

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 6 Test Parameters continued on next page

AnalyticalTechnologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL
Lab I.D.#: 92-8345-5
Received Date: 09/30/92
Project Number: PO 01-093004
Sampled By: D. GREEN
Project Name: 3RD QTR GROUNDWATER SAMPLING
Sample Site: VICKSBURG, MS
Sample Type: GROUNDWATER

Sample ID.: 6 Sample Date: 09/28/92 Time: PM

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	2
BROMOFLUOROBENZENE *SURR*	% REC	93	
1,2-DICHLOROETHANE D4 *SURR*	% REC	88	
TOLUENE D8 *SURR*	% REC	100	

AnalyticalTechnologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL
Lab I.D.#: 92-8345-6
Received Date: 09/30/92
Project Number: PO 01-093004
Sampled By: D. GREEN
Project Name: 3RD QTR GROUNDWATER SAMPLING
Sample Site: VICKSBURG, MS
Sample Type: GROUNDWATER

Sample ID.: 7 Sample Date: 09/28/92 Time: PM

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 7 Test Parameters continued on next page

AnalyticalTechnologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL
Lab I.D.#: 92-8345-6
Received Date: 09/30/92
Project Number: PO 01-093004
Sampled By: D. GREEN
Project Name: 3RD QTR GROUNDWATER SAMPLING
Sample Site: VICKSBURG, MS
Sample Type: GROUNDWATER

Sample ID.: 7 Sample Date: 09/28/92 Time: PM

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	2
BROMOFLUOROBENZENE *SURR*	% REC	92	
1,2-DICHLOROETHANE D4 *SURR*	% REC	90	
TOLUENE D8 *SURR*	% REC	101	

AnalyticalTechnologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL
Lab I.D.#: 92-8345-7
Received Date: 09/30/92
Project Number: PO 01-093004
Sampled By: D. GREEN
Project Name: 3RD QTR GROUNDWATER SAMPLING
Sample Site: VICKSBURG, MS
Sample Type: GROUNDWATER

Sample ID.: 8 Sample Date: 09/28/92 Time: PM

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 8 Test Parameters continued on next page

AnalyticalTechnologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL
Lab I.D.#: 92-8345-7
Received Date: 09/30/92
Project Number: PO 01-093004
Sampled By: D. GREEN
Project Name: 3RD QTR GROUNDWATER SAMPLING
Sample Site: VICKSBURG, MS
Sample Type: GROUNDWATER

Sample ID.: 8 Sample Date: 09/28/92 Time: PM

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	4	1
TOTAL XYLENES	PPB	BDL	2
BROMOFLUOROBENZENE *SURR*	% REC	91	
1,2-DICHLOROETHANE D4 *SURR*	% REC	88	
TOLUENE D8 *SURR*	% REC	102	

AnalyticalTechnologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL
Lab I.D.#: 92-8345-8
Received Date: 09/30/92
Project Number: PO 01-093004
Sampled By: D. GREEN
Project Name: 3RD QTR GROUNDWATER SAMPLING
Sample Site: VICKSBURG, MS
Sample Type: GROUNDWATER

Sample ID.: 9 Sample Date: 09/28/92 Time: PM

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 9 Test Parameters continued on next page

AnalyticalTechnologies,Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL
Lab I.D.#: 92-8345-8
Received Date: 09/30/92
Project Number: PO 01-093004
Sampled By: D. GREEN
Project Name: 3RD QTR GROUNDWATER SAMPLING
Sample Site: VICKSBURG, MS
Sample Type: GROUNDWATER

Sample ID.: 9 Sample Date: 09/28/92 Time: PM

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	2
BROMOFLUOROBENZENE *SURR*	% REC	105	
1,2-DICHLOROETHANE D4 *SURR*	% REC	87	
TOLUENE D8 *SURR*	% REC	91	

AnalyticalTechnologies,Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL
Lab I.D.#: 92-8345-9
Received Date: 09/30/92
Project Number: PO 01-093004
Sampled By: D. GREEN
Project Name: 3RD QTR GROUNDWATER SAMPLING
Sample Site: VICKSBURG, MS
Sample Type: GROUNDWATER

Sample ID.: 10 Sample Date: 09/28/92 Time: PM

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 10 Test Parameters continued on next page

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL
Project Number: PO 01-093004
Project Name: 3RD QTR GROUNDWATER SAMPLING
Sample Site: VICKSBURG, MS
Sample Type: GROUNDWATER

Lab I.D.#: 92-8345-9
Received Date: 09/30/92
Sampled By: D. GREEN

Sample ID.: 10 Sample Date: 09/28/92 Time: PM

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	2
BROMOFLUOROBENZENE *SURR*	% REC	108	
1,2-DICHLOROETHANE D4 *SURR*	% REC	87	
TOLUENE D8 *SURR*	% REC	89	

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL
Lab I.D.#: 92-8345-10
Received Date: 09/30/92
Project Number: PO 01-093004
Sampled By: D. GREEN
Project Name: 3RD QTR GROUNDWATER SAMPLING
Sample Site: VICKSBURG, MS
Sample Type: GROUNDWATER

Sample ID.: 11 Sample Date: 09/28/92 Time: PM

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Test Parameters continued on next page

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL
Lab I.D.#: 92-8345-10
Received Date: 09/30/92
Project Number: PO 01-093004
Sampled By: D. GREEN
Project Name: 3RD QTR GROUNDWATER SAMPLING
Sample Site: VICKSBURG, MS
Sample Type: GROUNDWATER

Sample ID.: 11 Sample Date: 09/28/92 Time: PM

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	13	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	2
BROMOFLUOROBENZENE *SURR*	% REC	108	
1,2-DICHLOROETHANE D4 *SURR*	% REC	85	
TOLUENE D8 *SURR*	% REC	89	

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL
Project Number: PO 01-093004
Project Name: 3RD QTR GROUNDWATER SAMPLING
Sample Site: VICKSBURG, MS
Sample Type: GROUNDWATER

Lab I.D.#: 92-8345-11
Received Date: 09/30/92
Sampled By: D. GREEN

Sample ID.: 12 Sample Date: 09/28/92 Time: PM

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 12 Test Parameters continued on next page

AnalyticalTechnologies,Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL
Lab I.D.#: 92-8345-11
Received Date: 09/30/92
Project Number: PO 01-093004
Sampled By: D. GREEN
Project Name: 3RD QTR GROUNDWATER SAMPLING
Sample Site: VICKSBURG, MS
Sample Type: GROUNDWATER

Sample ID.: 12 Sample Date: 09/28/92 Time: PM

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	5	2
BROMOFLUOROBENZENE *SURR*	% REC	104	
1,2-DICHLOROETHANE D4 *SURR*	% REC	88	
TOLUENE D8 *SURR*	% REC	97	

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL
Lab I.D.#: 92-8345-12
Received Date: 09/30/92
Project Number: PO 01-093004
Sampled By: D. GREEN
Project Name: 3RD QTR GROUNDWATER SAMPLING
Sample Site: VICKSBURG, MS
Sample Type: GROUNDWATER

Sample ID.: 13 Sample Date: 09/28/92 Time: PM

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 13 Test Parameters continued on next page

AnalyticalTechnologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL
Lab I.D.#: 92-8345-12
Received Date: 09/30/92
Project Number: PO 01-093004
Sampled By: D. GREEN
Project Name: 3RD QTR GROUNDWATER SAMPLING
Sample Site: VICKSBURG, MS
Sample Type: GROUNDWATER

Sample ID.: 13 Sample Date: 09/28/92 Time: PM

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	2
BROMOFLUOROBENZENE *SURR*	% REC	106	
1,2-DICHLOROETHANE D4 *SURR*	% REC	87	
TOLUENE D8 *SURR*	% REC	91	

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL
Lab I.D.#: 92-8345-13
Received Date: 09/30/92
Project Number: PO 01-093004
Sampled By: D. GREEN
Project Name: 3RD QTR GROUNDWATER SAMPLING
Sample Site: VICKSBURG, MS
Sample Type: GROUNDWATER

Sample ID.: 14 Sample Date: 09/28/92 Time: PM

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 14 Test Parameters continued on next page

AnalyticalTechnologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL
Lab I.D.#: 92-8345-13
Received Date: 09/30/92
Project Number: PO 01-093004
Sampled By: D. GREEN
Project Name: 3RD QTR GROUNDWATER SAMPLING
Sample Site: VICKSBURG, MS
Sample Type: GROUNDWATER

Sample ID.: 14 Sample Date: 09/28/92 Time: PM

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	2
BROMOFLUOROBENZENE *SURR*	% REC	105	
1,2-DICHLOROETHANE D4 *SURR*	% REC	83	
TOLUENE D8 *SURR*	% REC	105	

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL
Lab I.D.#: 92-8345-14
Received Date: 09/30/92
Project Number: PO 01-093004
Sampled By: D. GREEN
Project Name: 3RD QTR GROUNDWATER SAMPLING
Sample Site: VICKSBURG, MS
Sample Type: GROUNDWATER

Sample ID.: 16 Sample Date: 09/28/92 Time: PM

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 16 Test Parameters continued on next page

AnalyticalTechnologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL
Lab I.D.#: 92-8345-14
Received Date: 09/30/92
Project Number: PO 01-093004
Sampled By: D. GREEN
Project Name: 3RD QTR GROUNDWATER SAMPLING
Sample Site: VICKSBURG, MS
Sample Type: GROUNDWATER

Sample ID.: 16 Sample Date: 09/28/92 Time: PM

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	2
BROMOFLUOROBENZENE *SURR*	% REC	108	
1,2-DICHLOROETHANE D4 *SURR*	% REC	84	
TOLUENE D8 *SURR*	% REC	88	

end of report

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

INORGANICS

CLIENT NAME: CEDAR CHEMICAL

PROJECT: PO 01-093004

LAB ID: 92-8345

QC LEVEL: II

LAB ID	CLIENT ID	LAB ID	CLIENT ID
92-8345-1	1A	92-8345-8	9
92-8345-2	2	92-8345-9	10
92-8345-3	4	92-8345-10	11
92-8345-4	5	92-8345-11	12
92-8345-5	6	92-8345-12	13
92-8345-6	7	92-8345-13	14
92-8345-7	8	92-8345-14	16

Notes: PPM = Parts Per Million, mg/l.
BDL = Below Detection Limit.
Control limits are from ATI's internal quality assurance program and the referenced method.
See final report for actual sample detection limit(s).

Reference: EPA 600/4-79-020, Revised March 1983.

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

LAB ID: 92-8345

PARAMETER	PREPARATION DATE	ANALYSIS DATE	BATCH#	METHOD	BLANK DETECTION LIMIT	BLANK RESULT	DUPLIC SAMPLE RESULT	DUPLIC RESULT	RPD SAMPLE	MAX RPD	SAMPLE RESULT	SPIKED SAMPLE RESULT	SPIKE ADDED	%REC MS	%REC CONTROL LIMITS
ARSENIC	10-05-92	10-06-92	As00592A	206.2	0.005	BDL	BDL	BDL	N/C	0.005	BDL	0.040	0.040	100	75-125

PARAMETER	ICV RESULT	TRUE ICV RESULT	%REC QC	%REC CONTROL LIMITS	LCS RESULT	TRUE LCS RESULT	LCS %REC	LCS CONTROL LIMITS	SAMPLE DUPLIC	SAMPLE DUP DETECTION LIMIT	SAMPLE SPIKED	SAMPLE SPK DETECTION LIMIT
ARSENIC	0.038	0.040	95	90-110	0.038	0.040	95	80-120	8379-1	0.005	8379-1	0.005

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

EXPLANATION OF INORGANIC FOOTNOTES

N/A = NOT APPLICABLE.
N/S = NOT SUBMITTED.
N/C = SAMPLE AND DUPLICATE RESULTS ARE AT OR BELOW ATI METHOD DETECTION LIMIT; THEREFORE, THE RPD IS "NOT CALCULABLE" AND NO CONTROL LIMITS APPLY.
N/D = NOT DETECTED.
DISS. OR D = DISSOLVED
T & D = TOTAL AND DISSOLVED
R = REACTIVE
T = TOTAL
G = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X ATI METHOD DETECTION LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE RESULT IS AT OR BELOW ATI METHOD DETECTION LIMIT; THEREFORE, THE RESULTS ARE "IN CONTROL".
≠ = THE ANALYTICAL (POST-DIGESTION) SPIKE IS REPORTED DUE TO FAILURE OF THE MATRIX (PRE-DIGESTION) SPIKE.
S = ELEVATED DETECTION LIMIT DUE TO INSUFFICIENT SAMPLE.
B = ELEVATED DETECTION LIMIT DUE TO DILUTION INTO CALIBRATION RANGE.
M = ELEVATED DETECTION LIMIT DUE TO MATRIX INTERFERENCE.
@ = ADJUSTED DETECTION LIMIT DUE TO SAMPLE MATRIX.
P = ANALYTICAL (POST-DIGESTION) SPIKE
I = DUPLICATE INJECTION
& = AUTOMATED
F = SAMPLE SPIKED > 4 X SPIKE CONCENTRATION.
N/C+ = NOT CALCULABLE
N/C* = NOT CALCULABLE; SAMPLE SPIKED > 4 X SPIKE CONCENTRATION.
H = SAMPLE AND/OR DUPLICATE IS BELOW 5 X ATI METHOD DETECTION LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE ATI METHOD DETECTION LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL"; SAMPLE IS NON-HOMOGENEOUS.
A = SAMPLE AND DUPLICATE RESULTS ARE "OUT OF CONTROL"; SAMPLE IS NON-HOMOGENEOUS.

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

CLIENT: CEDAR CHEMICAL

PROJECT: PO 01-093004

LAB ID: 92-8345

METHOD: 608 / Federal Register, 40 CFR, Part 136, July 1, 1990.

QC LEVEL: II

LAB ID:	CLIENT ID:	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	QC BATCH	QC BLANK
92-8345-1	1A	09-28-92	09-30-92	10-02-92	10-05-92	PSW236	A
92-8345-2	2	09-28-92	09-30-92	10-02-92	10-05-92	PSW236	A
92-8345-3	4	09-28-92	09-30-92	10-02-92	10-05-92	PSW236	A
92-8345-4	5	09-28-92	09-30-92	10-02-92	10-05-92	PSW236	A
92-8345-5	6	09-28-92	09-30-92	10-02-92	10-05-92	PSW236	A
92-8345-6	7	09-28-92	09-30-92	10-02-92	10-05-92	PSW236	A
92-8345-7	8	09-28-92	09-30-92	10-02-92	10-05-92	PSW236	A
92-8345-8	9	09-28-92	09-30-92	10-02-92	10-06-92	PSW236	A
92-8345-9	10	09-28-92	09-30-92	10-02-92	10-06-92	PSW236	A
92-8345-10	11	09-28-92	09-30-92	10-02-92	10-06-92	PSW236	A
92-8345-11	12	09-28-92	09-30-92	10-02-92	10-06-92	PSW236	A
92-8345-12	13	09-28-92	09-30-92	10-02-92	10-06-92	PSW236	A
92-8345-13	14	09-28-92	09-30-92	10-02-92	10-06-92	PSW236	A
92-8345-14	16	09-28-92	09-30-92	10-02-92	10-06-92	PSW236	A

AnalyticalTechnologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

[redacted]HOD EXTRACTION BLANK / PESTICIDE

BATCH NUMBER: PSW236

METHOD: 608 / Federal Register, 40 CFR, Part 136, July 1, 1990.

PESTICIDE PARAMETERS	DETECTION LIMIT		BLANK A	BLANK B	BLANK C
		ANALYSIS DATE	10-05-92	N/A	N/A
		EXTRACTION DATE	10-02-92	N/A	N/A
			RESULTS	RESULTS	RESULTS
ALDRIN	0.05		BDL	BDL	BDL
ALPHA-BHC	0.05		BDL	BDL	BDL
BETA-BHC	0.05		BDL	BDL	BDL
DELTA-BHC	0.05		BDL	BDL	BDL
GAMMA-BHC(LINDANE)	0.05		BDL	BDL	BDL
CHLORDANE	0.05		BDL	BDL	BDL
4,4'-DDD	0.10		BDL	BDL	BDL
4,4'-DDE	0.10		BDL	BDL	BDL
4,4'-DDT	0.10		BDL	BDL	BDL
DIELDRIN	0.10		BDL	BDL	BDL
ENDOSULFAN I	0.05		BDL	BDL	BDL
ENDOSULFAN II	0.10		BDL	BDL	BDL
ENDOSULFAN SULFATE	0.10		BDL	BDL	BDL
[redacted]RIN	0.10		BDL	BDL	BDL
[redacted]RIN ALDEHYDE	0.10		BDL	BDL	BDL
HEPTACHLOR	0.05		BDL	BDL	BDL
HEPTACHLOR EPOXIDE	0.05		BDL	BDL	BDL
PCB-1016	0.5		BDL	BDL	BDL
PCB-1221	0.5		BDL	BDL	BDL
PCB-1232	0.5		BDL	BDL	BDL
PCB-1242	0.5		BDL	BDL	BDL
PCB-1248	0.5		BDL	BDL	BDL
PCB-1254	1.0		BDL	BDL	BDL
PCB-1260	1.0		BDL	BDL	BDL
TOXAPHENE	1.0		BDL	BDL	BDL
DCB *SURR*	(22-147)		92	N/A	N/A
TCMX *SURR*	(14-134)		72	N/A	N/A

NOTE: Units in ug/l = Part Per Billion.
BDL = Below Detection limit.
Source for control limits is internal laboratory quality assurance program and the method reference.
Samples within the same calibration period may display different dates due to operation past midnight.

AnalyticalTechnologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

WATER MATRIX SPIKE / PESTICIDE

BATCH NUMBER: PSW236 SAMPLE SPIKED: 92-8345-1

METHOD: 608 / Federal Register, 40 CFR, Part 136, July 1, 1990.

COMPOUNDS	SPIKE ADDED	SAMPLE CONC	MS CONC	MS REC%#	REC LIMITS
TOXAPHENE	10.0	BDL	11.5	115	52-164
HEPTACHLOR	0.50	BDL	N/A	N/A	57-160
ALDRIN	0.50	BDL	N/A	N/A	37-157
DIELDRIN	1.25	BDL	N/A	N/A	39-162
ENDRIN	1.25	BDL	N/A	N/A	32-184
DDT	1.25	BDL	N/A	N/A	50-167

COMPOUNDS	SPIKE ADDED	SAMPLE CONC	MSD CONC	MSD REC%#	% RPD#	QC LIMITS RPD	QC LIMITS REC
TOXAPHENE	10.0	BDL	11.4	114	1	37	52-164
HEPTACHLOR	0.50	BDL	N/A	N/A	N/A	46	57-160
ALDRIN	0.50	BDL	N/A	N/A	N/A	46	37-157
DIELDRIN	1.25	BDL	N/A	N/A	N/A	41	39-162
ENDRIN	1.25	BDL	N/A	N/A	N/A	40	32-184
DDT	1.25	BDL	N/A	N/A	N/A	34	50-167

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

ITEM ID:	ANALYSIS DATE	EXTRACTION DATE	SURROGATE RECOVERY S1	S2
SPK	10-05-92	10-02-92	80 %	60 %
SPD	10-05-92	10-02-92	80 %	65 %

D = DILUTED OUT

NOTE: Units in ug/l = Parts Per Billion.
BDL = Below Detection Limit.
Source for control limits is internal laboratory quality assurance program and method reference.

	QC LIMITS
S1 = DCB	(22-147)
S2 = TCMX	(14-134)

COMMENTS: _____

AnalyticalTechnologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

CLIENT: CEDAR CHEMICAL

PROJECT: PO 01-093004

LAB ID: 92-8345

METHOD: 608 / Federal Register, 40 CFR, Part 136, July 1, 1990.

QC LEVEL: II

LAB ID:	CLIENT ID:	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	QC BATCH	QC BLANK
92-8345-1	1A	09-28-92	09-30-92	10-02-92	10-05-92	PSW236	A
92-8345-2	2	09-28-92	09-30-92	10-02-92	10-05-92	PSW236	A
92-8345-3	4	09-28-92	09-30-92	10-02-92	10-05-92	PSW236	A
92-8345-4	5	09-28-92	09-30-92	10-02-92	10-05-92	PSW236	A
92-8345-5	6	09-28-92	09-30-92	10-02-92	10-05-92	PSW236	A
92-8345-6	7	09-28-92	09-30-92	10-02-92	10-05-92	PSW236	A
92-8345-7	8	09-28-92	09-30-92	10-02-92	10-05-92	PSW236	A
92-8345-8	9	09-28-92	09-30-92	10-02-92	10-06-92	PSW236	A
92-8345-9	10	09-28-92	09-30-92	10-02-92	10-06-92	PSW236	A
92-8345-10	11	09-28-92	09-30-92	10-02-92	10-06-92	PSW236	A
92-8345-11	12	09-28-92	09-30-92	10-02-92	10-06-92	PSW236	A
92-8345-12	13	09-28-92	09-30-92	10-02-92	10-06-92	PSW236	A
92-8345-13	14	09-28-92	09-30-92	10-02-92	10-06-92	PSW236	A
92-8345-14	16	09-28-92	09-30-92	10-02-92	10-06-92	PSW236	A

Analytical**Technologies,**Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

METHOD EXTRACTION BLANK / PESTICIDE

BATCH NUMBER: PSW236

METHOD: 608 / Federal Register, 40 CFR, Part 136, July 1, 1990.

PESTICIDE PARAMETERS	DETECTION LIMIT		BLANK A	BLANK B	BLANK C
		ANALYSIS DATE	10-05-92	N/A	N/A
		EXTRACTION DATE	10-02-92	N/A	N/A
			RESULTS	RESULTS	RESULTS
ALDRIN	0.05		BDL	BDL	BDL
ALPHA-BHC	0.05		BDL	BDL	BDL
BETA-BHC	0.05		BDL	BDL	BDL
DELTA-BHC	0.05		BDL	BDL	BDL
GAMMA-BHC(LINDANE)	0.05		BDL	BDL	BDL
CHLORDANE	0.05		BDL	BDL	BDL
4,4'-DDD	0.10		BDL	BDL	BDL
4,4'-DDE	0.10		BDL	BDL	BDL
4,4'-DDT	0.10		BDL	BDL	BDL
DIELDRIN	0.10		BDL	BDL	BDL
ENDOSULFAN I	0.05		BDL	BDL	BDL
ENDOSULFAN II	0.10		BDL	BDL	BDL
ENDOSULFAN SULFATE	0.10		BDL	BDL	BDL
[redacted]RIN	0.10		BDL	BDL	BDL
[redacted]RIN ALDEHYDE	0.10		BDL	BDL	BDL
HEPTACHLOR	0.05		BDL	BDL	BDL
HEPTACHLOR EPOXIDE	0.05		BDL	BDL	BDL
PCB-1016	0.5		BDL	BDL	BDL
PCB-1221	0.5		BDL	BDL	BDL
PCB-1232	0.5		BDL	BDL	BDL
PCB-1242	0.5		BDL	BDL	BDL
PCB-1248	0.5		BDL	BDL	BDL
PCB-1254	1.0		BDL	BDL	BDL
PCB-1260	1.0		BDL	BDL	BDL
TOXAPHENE	1.0		BDL	BDL	BDL
DCB *SURR*	(22-147)		92	N/A	N/A
TCMX *SURR*	(14-134)		72	N/A	N/A

NOTE: Units in ug/l = Part Per Billion.
BDL = Below Detection limit.
Source for control limits is internal laboratory quality assurance program and the method reference.
Samples within the same calibration period may display different dates due to operation past midnight.

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

WATER MATRIX SPIKE / PESTICIDE

BATCH NUMBER: PSW236 SAMPLE SPIKED: 92-8345-1

METHOD: 608 / Federal Register, 40 CFR, Part 136, July 1, 1990.

COMPOUNDS	SPIKE ADDED	SAMPLE CONC	MS CONC	MS REC%#	REC LIMITS
TOXAPHENE	10.0	BDL	11.5	115	52-164
HEPTACHLOR	0.50	BDL	N/A	N/A	57-160
ALDRIN	0.50	BDL	N/A	N/A	37-157
DIELDRIN	1.25	BDL	N/A	N/A	39-162
ENDRIN	1.25	BDL	N/A	N/A	32-184
DDT	1.25	BDL	N/A	N/A	50-167

COMPOUNDS	SPIKE ADDED	SAMPLE CONC	MSD CONC	MSD REC%#	% RPD#	QC LIMITS RPD	QC LIMITS REC
TOXAPHENE	10.0	BDL	11.4	114	1	37	52-164
HEPTACHLOR	0.50	BDL	N/A	N/A	N/A	46	57-160
ALDRIN	0.50	BDL	N/A	N/A	N/A	46	37-157
DIELDRIN	1.25	BDL	N/A	N/A	N/A	41	39-162
ENDRIN	1.25	BDL	N/A	N/A	N/A	40	32-184
DDT	1.25	BDL	N/A	N/A	N/A	34	50-167

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

ITEM ID:	ANALYSIS DATE	EXTRACTION DATE	SURROGATE RECOVERY S1	S2
SPK	10-05-92	10-02-92	80 %	60 %
SPD	10-05-92	10-02-92	80 %	65 %

D = DILUTED OUT

NOTE: Units in ug/l = Parts Per Billion.
BDL = Below Detection Limit.
Source for control limits is internal laboratory quality assurance program and method reference.

	QC LIMITS
S1 = DCB	(22-147)
S2 = TCMX	(14-134)

COMMENTS: _____

AnalyticalTechnologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

CLIENT: CEDAR CHEMICAL

PROJECT: PO 01-093004

LAB ID: 92-8345

METHOD: 8150 / SW 846, 3rd Edition, November 1986.

QC LEVEL: II

LAB ID:	CLIENT ID:	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	QC BATCH	QC BLANK
92-8345-1	1A	09-28-92	09-30-92	10-01-92	10-07-92	HEW060	C
92-8345-2	2	09-28-92	09-30-92	10-01-92	10-07-92	HEW060	C
92-8345-3	4	09-28-92	09-30-92	10-01-92	10-07-92	HEW060	C
92-8345-4	5	09-28-92	09-30-92	10-01-92	10-07-92	HEW060	C
92-8345-5	6	09-28-92	09-30-92	10-01-92	10-07-92	HEW060	C
92-8345-6	7	09-28-92	09-30-92	10-01-92	10-07-92	HEW060	C
92-8345-7	8	09-28-92	09-30-92	10-01-92	10-07-92	HEW060	C
92-8345-8	9	09-28-92	09-30-92	10-01-92	10-07-92	HEW060	C
92-8345-9	10	09-28-92	09-30-92	10-01-92	10-08-92	HEW060	C
92-8345-10	11	09-28-92	09-30-92	10-01-92	10-08-92	HEW060	C
92-8345-11	12	09-28-92	09-30-92	10-01-92	10-08-92	HEW060	C
92-8345-12	13	09-28-92	09-30-92	10-01-92	10-08-92	HEW060	C
92-8345-13	14	09-28-92	09-30-92	10-01-92	10-08-92	HEW060	C
92-8345-14	16	09-28-92	09-30-92	10-01-92	10-08-92	HEW060	C

AnalyticalTechnologies,Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

METHOD EXTRACTION BLANK / HERBICIDE

BATCH NUMBER: HEW060

METHOD: 8150 / SW 846, 3rd Edition, November 1986.

HERBICIDE PARAMETERS	DETECTION LIMIT		BLANK A	BLANK B	BLANK C
		ANALYSIS DATE	10-02-92	10-02-92	10-07-92
		EXTRACTION DATE	09-29-92	09-30-92	10-01-92
			RESULTS	RESULTS	RESULTS
DALAPON	6		BDL	BDL	BDL
DICAMBA	0.3		BDL	BDL	BDL
DICHLOROPROP	0.7		BDL	BDL	BDL
DINOSEB	5		BDL	BDL	BDL
MCPA	250		BDL	BDL	BDL
MCPP	200		BDL	BDL	BDL
2,4,5-T	2		BDL	BDL	BDL
2,4,5,TRICHLOROPHENOXY (SILVEX)	0.02		BDL	BDL	BDL
2,4-D ACID-HERBICIDE	0.2		BDL	BDL	BDL
2,4-DB	1		BDL	BDL	BDL
DCAA *SURR* LIMITS	(30-130)		80	115	104

NOTE: Units in ug/l = Part Per Billion.
BDL = Below Detection limit.
Source for control limits is internal laboratory quality assurance program and the method reference.
Samples within the same calibration period may display different dates due to operation past midnight.

AnalyticalTechnologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

WATER MATRIX SPIKE / HERBICIDE

BATCH NUMBER: HEW060 SAMPLE SPIKED: 92-8245B-1

METHOD: 8150 / SW 846, 3rd Edition, November 1986.

COMPOUNDS	SPIKE ADDED	SAMPLE CONC	MS CONC	MS REC%#	REC LIMITS
2,4-D (@)	2.0	12.2	39.0	1340*	28-125
2,4,5-TP; SILVEX	2.0	0.36	5.0	232*	37-128

COMPOUNDS	SPIKE ADDED	SAMPLE CONC	MSD CONC	MSD REC%#	% RPD#	QC LIMITS RPD	QC LIMITS REC
2,4-D (@)	2.0	12.2	35.4	1160*	14	69	28-150
2,4,5-TP; SILVEX	2.0	0.36	5.4	252*	8	58	37-128

@ = 2,4-DICHLOROPHENOXY-ACETIC ACID

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

ITEM ID:	ANALYSIS DATE	EXTRACTION DATE	SURROGATE RECOVERY	QC LIMITS
MS	10-02-92	09-30-92	MI*	30-130
MSD	10-02-92	09-30-92	MI*	30-130

D = DILUTED OUT

NOTE: Units in ug/l = Parts Per Billion.
BDL = Below Detection Limit.
Source for control limits is internal laboratory quality assurance program and method reference.

COMMENTS: *-MATRIX INTERFERENCE RESULTED IN RECOVERIES BEING OUT OF LIMITS.

*MI-MATRIX INTERFERENCE RESULTED IN SURROGATE RECOVERIES BEING UNRECOVERABLE. SEE REAGENT SPIKE/REAGENT SPIKE DUPLICATE DATA.

AnalyticalTechnologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

REAGENT WATER SPIKE / HERBICIDE

BATCH NUMBER: HEW060

METHOD: 8150 / SW 846, 3rd Edition, November 1986.

COMPOUNDS	SPIKE ADDED	SAMPLE CONC	SPK CONC	SPK REC%#	REC LIMITS
2,4-D (@)	1.00	BDL	.89	89	28-150
2,4,5-TP; SILVEX	1.00	BDL	.99	99	37-128

COMPOUNDS	SPIKE ADDED	SAMPLE CONC	SPD CONC	SPD REC%#	% RPD#	QC LIMITS RPD	QC LIMITS REC
2,4-D (@)	1.00	BDL	.87	87	2	69	28-150
2,4,5-TP; SILVEX	1.00	BDL	1.05	105	6	58	37-128

@ = 2,4-DICHLOROPHENOXY-ACETIC ACID

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

ITEM ID:	ANALYSIS DATE	EXTRACTION DATE	SURROGATE RECOVERY	QC LIMITS
SPK	10-02-92	09-29-92	68	30-130
SPD	10-02-92	09-29-92	66	30-130

D = DILUTED OUT

NOTE: Units in ug/l = Parts Per Billion.
BDL = Below Detection Limit.
Source for control limits is internal laboratory quality assurance program and method reference.

COMMENTS: _____

_____

_____

Analytical**Technologies,**Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

CLIENT: CEDAR CHEMICAL

PROJECT: PO 01-093004

LAB ID: 92-8345

METHOD: 8240 / SW 846, 3rd Edition, November 1986

QC LEVEL: II

LAB ID:	CLIENT ID:	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	QC BATCH	QC BLANK
92-8345-1	1A	09-28-92	09-30-92	N/A	10-02-92	NW0108	B
92-8345-2	2	09-28-92	09-30-92	N/A	10-02-92	NW0108	B
92-8345-3	4	09-28-92	09-30-92	N/A	10-02-92	NW0108	B
92-8345-4	5	09-28-92	09-30-92	N/A	10-02-92	NW0108	B
92-8345-5	6	09-28-92	09-30-92	N/A	10-02-92	NW0108	B
92-8345-6	7	09-28-92	09-30-92	N/A	10-02-92	NW0108	B
92-8345-7	8	09-28-92	09-30-92	N/A	10-02-92	NW0108	B
92-8345-8	9	09-28-92	09-30-92	N/A	10-02-92	NW0108	C
92-8345-9	10	09-28-92	09-30-92	N/A	10-02-92	NW0108	C
92-8345-10	11	09-28-92	09-30-92	N/A	10-02-92	NW0108	C
92-8345-11	12	09-28-92	09-30-92	N/A	10-02-92	NW0108	C
92-8345-12	13	09-28-92	09-30-92	N/A	10-02-92	NW0108	C
92-8345-13	14	09-28-92	09-30-92	N/A	10-02-92	NW0108	C
92-8345-14	16	09-28-92	09-30-92	N/A	10-02-92	NW0108	C

Analytical**Technologies,**Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

METHOD INSTRUMENT BLANK

BATCH NUMBER: NW0108

PARAMETERS	DETECTION LIMIT	BLANK A	BLANK B
EXTRACTION DATE		N/A	N/A
ANALYSIS DATE		10-01-92	10-01-92
		RESULTS	RESULTS
ACETONE	10	BDL	BDL
ACROLEIN	100	BDL	BDL
ACRYLONITRILE	100	BDL	BDL
BENZENE	1	BDL	BDL
BROMODICHLOROMETHANE	1	BDL	BDL
BROMOFORM	2	BDL	BDL
BROMOMETHANE	1	BDL	BDL
2-BUTANONE (MEK)	3	BDL	BDL
CARBON DISULFIDE	1	BDL	BDL
CARBON TETRACHLORIDE	2	BDL	BDL
CHLOROBENZENE	1	BDL	BDL
CHLOROETHANE	1	BDL	BDL
2-CHLOROETHYLVINYL ETHER	5	BDL	BDL
[illegible]OROFORM	2	BDL	BDL
[illegible]OROMETHANE	2	BDL	BDL
DIBROMOCHLOROMETHANE	5	BDL	BDL
DIBROMOMETHANE	5	BDL	BDL
DICHLORODIFLUOROMETHANE	5	BDL	BDL
1,1-DICHLOROETHANE	1	BDL	BDL
1,2-DICHLOROETHANE	2	BDL	BDL
1,1-DICHLOROETHENE	1	BDL	BDL
TOTAL 1,2-DICHLOROETHYLENE	5	BDL	BDL
1,2-DICHLOROPROPANE	2	BDL	BDL
CIS-1,3-DICHLOROPROPENE	1	BDL	BDL
TRANS-1,3-DICHLOROPROPENE	1	BDL	BDL
1,4-DICHLORO-2-BUTENE	5	BDL	BDL
ETHANOL	50	BDL	BDL
ETHYL BENZENE	1	BDL	BDL
ETHYL METHACRYLATE	5	BDL	BDL
2-HEXANONE	3	BDL	BDL
IODOMETHANE	5	BDL	BDL
METHYLENE CHLORIDE	5	BDL	BDL
4-METHYL-2-PENTANONE	3	BDL	BDL
STYRENE	2	BDL	BDL

NOTE: Units in ug/l = Part Per Billion.
BDL = Below Detection limit.
Source for control limits is internal laboratory quality assurance program and the method reference.
N/S = NOT SUBMITTED N/A = NOT APPLICABLE

Analytical**Technologies,**Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

METHOD INSTRUMENT BLANK

BATCH NUMBER: NW0108

PARAMETERS	DETECTION LIMIT	BLANK A	BLANK B
EXTRACTION DATE		N/A	N/A
ANALYSIS DATE		10-01-92	10-01-92
		RESULTS	RESULTS
1,1,2,2-TETRACHLOROETHANE	2	BDL	BDL
TETRACHLOROETHENE	1	BDL	BDL
TOLUENE	5	BDL	BDL
1,1,1-TRICHLOROETHANE	5	BDL	BDL
1,1,2-TRICHLOROETHANE	2	BDL	BDL
TRICHLOROETHENE	1	BDL	BDL
TRICHLOROFLUOROMETHANE	1	BDL	BDL
1,2,3-TRICHLOROPROPANE	5	BDL	BDL
VINYL ACETATE	2	BDL	BDL
VINYL CHLORIDE	1	BDL	BDL
METHYL TERT-BUTYL ETHER	10	BDL	BDL
XYLENES	4	BDL	BDL
-DICHLOROBENZENE	5	BDL	BDL
-DICHLOROBENZENE	5	BDL	BDL
1,4-DICHLOROBENZENE	5	BDL	BDL
1,2-DICHLOROETHANE - D4	(76-114)	88	91
TOLUENE - D8	(88-110)	108	97
BROMOFLUOROBENZENE	(86-115)	94	101

NOTE: Units in ug/l = Part Per Billion.
BDL = Below Detection limit.
Source for control limits is internal laboratory quality assurance program and the method reference.
N/S = NOT SUBMITTED N/A = NOT APPLICABLE

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

METHOD INSTRUMENT BLANK

BATCH NUMBER: NW0108

PARAMETERS	DETECTION LIMIT	BLANK C	BLANK D
EXTRACTION DATE		N/A	N/A
ANALYSIS DATE		10-02-92	N/A
		RESULTS	RESULTS
ACETONE	10	BDL	BDL
ACROLEIN	100	BDL	BDL
ACRYLONITRILE	100	BDL	BDL
BENZENE	1	BDL	BDL
BROMODICHLOROMETHANE	1	BDL	BDL
BROMOFORM	2	BDL	BDL
BROMOMETHANE	1	BDL	BDL
2-BUTANONE (MEK)	3	BDL	BDL
CARBON DISULFIDE	1	BDL	BDL
CARBON TETRACHLORIDE	2	BDL	BDL
CHLOROBENZENE	1	BDL	BDL
CHLOROETHANE	1	BDL	BDL
2-CHLOROETHYLVINYL ETHER	5	BDL	BDL
[redacted]ORFORM	2	BDL	BDL
[redacted]OROMETHANE	2	BDL	BDL
DIBROMOCHLOROMETHANE	5	BDL	BDL
DIBROMOMETHANE	5	BDL	BDL
DICHLORODIFLUOROMETHANE	5	BDL	BDL
1,1-DICHLOROETHANE	1	BDL	BDL
1,2-DICHLOROETHANE	2	BDL	BDL
1,1-DICHLOROETHENE	1	BDL	BDL
TOTAL 1,2-DICHLOROETHYLENE	5	BDL	BDL
1,2-DICHLOROPROPANE	2	BDL	BDL
CIS-1,3-DICHLOROPROPENE	1	BDL	BDL
TRANS-1,3-DICHLOROPROPENE	1	BDL	BDL
1,4-DICHLORO-2-BUTENE	5	BDL	BDL
ETHANOL	50	BDL	BDL
ETHYL BENZENE	1	BDL	BDL
ETHYL METHACRYLATE	5	BDL	BDL
2-HEXANONE	3	BDL	BDL
IODOMETHANE	5	BDL	BDL
METHYLENE CHLORIDE	5	BDL	BDL
4-METHYL-2-PENTANONE	3	BDL	BDL
STYRENE	2	BDL	BDL

NOTE: Units in ug/l = Part Per Billion.
BDL = Below Detection limit.
Source for control limits is internal laboratory quality assurance program and the method reference.
N/S = NOT SUBMITTED N/A = NOT APPLICABLE

Analytical**Technologies,**Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

[redacted]HOD INSTRUMENT BLANK

BATCH NUMBER: NW0108

PARAMETERS	DETECTION LIMIT	BLANK C	BLANK D
EXTRACTION DATE		N/A	N/A
ANALYSIS DATE		10-02-92	N/A
		RESULTS	RESULTS
1,1,2,2-TETRACHLOROETHANE	2	BDL	BDL
TETRACHLOROETHENE	1	BDL	BDL
TOLUENE	5	BDL	BDL
1,1,1-TRICHLOROETHANE	5	BDL	BDL
1,1,2-TRICHLOROETHANE	2	BDL	BDL
TRICHLOROETHENE	1	BDL	BDL
TRICHLOROFLUOROMETHANE	1	BDL	BDL
1,2,3-TRICHLOROPROPANE	5	BDL	BDL
VINYL ACETATE	2	BDL	BDL
VINYL CHLORIDE	1	BDL	BDL
METHYL TERT-BUTYL ETHER	10	BDL	BDL
XYLENES	4	BDL	BDL
[redacted]-DICHLOROBENZENE	5	BDL	BDL
[redacted]-DICHLOROBENZENE	5	BDL	BDL
1,4-DICHLOROBENZENE	5	BDL	BDL
1,2-DICHLOROETHANE - D4	(76-114)	91	N/A
TOLUENE - D8	(88-110)	94	N/A
BROMOFLUOROBENZENE	(86-115)	107	N/A

NOTE: Units in ug/l = Part Per Billion.
BDL = Below Detection limit.
Source for control limits is internal laboratory quality assurance program and the method reference.
N/S = NOT SUBMITTED N/A = NOT APPLICABLE

Analytical**Technologies,**Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

ER MATRIX SPIKE

BATCH NUMBER: NW0108 SAMPLE SPIKED: 92-8345-3

COMPOUNDS	SPIKE ADDED	SAMPLE CONC	MS CONC	MS REC%#	REC LIMITS
1,1-DICHLOROETHENE	50	BDL	44	88	61-145
TRICHLOROETHENE	50	BDL	40	80	71-120
BENZENE	50	BDL	39	78	76-127
TOLUENE	50	BDL	42	84	76-125
CHLOROBENZENE	50	BDL	49	98	75-130

COMPOUNDS	SPIKE ADDED	SAMPLE CONC	MSD CONC	MSD REC%#	RPD#	QC LIMITS RPD	QC LIMITS REC
1,1-DICHLOROETHENE	50	BDL	47	94	7	14	61-145
TRICHLOROETHENE	50	BDL	40	80	0	14	71-120
BENZENE	50	BDL	41	82	5	11	76-127
TOLUENE	50	BDL	42	84	0	13	76-125
CHLOROBENZENE	50	BDL	47	94	4	13	75-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

0 out of 10 % recoveries out of limits
0 out of 6 surrogate recoveries out of limits
0 out of 5 RPD's out of limits

ITEM ID:	ANALYSIS DATE	SURROGATE RECOVERY S1	S2	S3
MS	10-02-92	84 %	91 %	101%
MSD	10-02-92	83 %	94 %	102%

D = DILUTED OUT

NOTE: Units in ug/l = Parts Per Billion.
BDL = Below Detection Limit.
Source for control limits is internal laboratory quality assurance program and method reference.

	QC LIMITS
S1 = 1,2-DICHLOROETHANE - D4	(76-114)
S2 = TOLUENE - D8	(88-110)
S3 = BROMOFLUOROBENZENE	(86-115)

COMMENTS: _____

_____

CEDAR CHEMICAL CORPORATION

24th Floor • 5100 Poplar Avenue • Memphis, TN 38137 • 901-685-5348

REPLY TO: P.O. BOX 821003
VICKSBURG, MS 39182
(601) 636-1231

CERTIFIED MAIL
RETURN RECEIPT REQUESTED
P 413 276 300

Mr. Jerry Banks, P.E.
Env. Engineer
MS Dept. of Env. Quality
2380 U.S. Highway 80 West
Jackson, MS 39204

July 31, 1992

Re: Cedar Chemical Corporation
Groundwater Monitoring, 2nd Quarter, 1992

Dear Mr. Banks:

As required by Commission Order 1253 87, please find enclosed the results of the latest sampling conducted. Please contact me with any questions there may be.

Sincerely,

Steven T. Boswell
Dir. of Env. Affairs

STB: pc

xc: Mr. Miles
Mr. Madsen

Enclosure

Cedar Chemical Corporation
Groundwater Sampling
June 25, 1992

Well No.	Water Elevation, MSL
1A	107.65'
2	97.69'
3	not sampled
4	106.51'
5	83.51'
6	84.89'
7	90.23'
8	102.21'
9	110.65'
10	107.0'
11	96.94'
12	108.51'
13	108.92'
14	107.59'
16	108.47'

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

CEDAR CHEMICAL
P. O. BOX 821003

VICKSBURG MS 39182-1003

Lab I.D.#: 92-5600
Order Number: P60148
Received Date: 06/25/92
Client: 02111
Sampled By: GREEN
Sample Date: 06/24/92
Sample Time: AM

Project Number: GW-2
Project Name: N/S
Sample Site: SOUTH PLANT
Sample Type: GROUNDWATER

N/S = Not Submitted

Lab ID	Sample ID	Parameter	Units	Results	Detection Limit
5600-1	1A	ARSENIC	PPM	BDL	0.005
5600-2	2	ARSENIC	PPM	BDL	0.005
5600-3	4	ARSENIC	PPM	BDL	0.005
5600-4	5	ARSENIC	PPM	0.013	0.005
5600-5	6	ARSENIC	PPM	0.006	0.005
5600-6	7	ARSENIC	PPM	0.021	0.005
5600-7	8	ARSENIC	PPM	0.049	0.005
5600-8	9	ARSENIC	PPM	BDL	0.005
5600-9	10	ARSENIC	PPM	0.006	0.005
5600-10	11	ARSENIC	PPM	BDL	0.005
5600-11	12	ARSENIC	PPM	0.013	0.005
5600-12	13	ARSENIC	PPM	0.006	0.005
5600-13	16	ARSENIC	PPM	0.008	0.005
5600-14	TRIP BLANK	ARSENIC	PPM	BDL	0.005
5600-15	14	ARSENIC	PPM	BDL	0.005
5600-1	1A	DINOSEB	PPB	228.5	5
5600-2	2	DINOSEB	PPB	BDL	5
5600-3	4	DINOSEB	PPB	BDL	5
5600-4	5	DINOSEB	PPB	BDL	5
5600-5	6	DINOSEB	PPB	BDL	5
5600-6	7	DINOSEB	PPB	BDL	5
5600-7	8	DINOSEB	PPB	BDL	5
5600-8	9	DINOSEB	PPB	BDL	5
5600-9	10	DINOSEB	PPB	BDL	5
5600-10	11	DINOSEB	PPB	BDL	5
5600-11	12	DINOSEB	PPB	BDL	5
5600-12	13	DINOSEB	PPB	BDL	5
5600-13	16	DINOSEB	PPB	BDL	5
5600-14	TRIP BLANK	DINOSEB	PPB	BDL	5
5600-15	14	DINOSEB	PPB	BDL	5
5600-1	1A	TOXAPHENE	PPB	BDL	0.5

Comments: PPM = Parts Per Million, mg/l. PPB = Parts Per Billion, ug/l. Method Refs: EPA 600/4-79-020, 3/83, SW-846, 3rd Edition, 11/86 and Fed Reg 40 CFR Part 136, 7/1/90. BDL = Below Detection Limits.
THIS IS A REVISED REPORT: JULY 23, 1992.

Approved By :

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: GW-2
Project Name: N/S
Sample Site: SOUTH PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 92-5600
Received Date: 06/25/92
Sampled By: GREEN

Single Tests continued Sample Date: 06/24/92 Time: AM

Lab ID	Sample ID	Parameter	Units	Results	Detection Limit
5600-2	2	TOXAPHENE	PPB	BDL	0.5
5600-3	4	TOXAPHENE	PPB	BDL	0.5
5600-4	5	TOXAPHENE	PPB	BDL	0.5
5600-5	6	TOXAPHENE	PPB	4.4	0.5
5600-6	7	TOXAPHENE	PPB	BDL	0.5
5600-7	8	TOXAPHENE	PPB	BDL	0.5
5600-8	9	TOXAPHENE	PPB	BDL	0.5
5600-9	10	TOXAPHENE	PPB	BDL	0.5
5600-10	11	TOXAPHENE	PPB	BDL	0.5
5600-11	12	TOXAPHENE	PPB	BDL	0.5
5600-12	13	TOXAPHENE	PPB	BDL	0.5
5600-13	16	TOXAPHENE	PPB	BDL	0.5
5600-14	TRIP BLANK	TOXAPHENE	PPB	BDL	0.5

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

CEDAR CHEMICAL
P. O. BOX 821003

VICKSBURG MS 39182-1003

Lab I.D.#: 92-5600B
Order Number: P60297
Received Date: 06/30/92
Client: 02111
Sampled By: GREEN
Sample Date: 06/29/92
Sample Time: 1000

Project Number: GW-2
Project Name: N/S
Sample Site: SOUTH PLANT
Sample Type: GROUNDWATER

N/S = Not Submitted

Lab ID	Sample ID	Parameter	Units	Results	Detection Limit
5600B-1	WELL #14	TOXAPHENE	PPB	BDL	0.5

Comments: PPB = Parts Per Billion, ug/l; BDL = Below Detection Limit.
Method Reference: Federal Register 40 CFR Part 136, July 1, 1990.

Approved By :

end of report

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: GW-2
Project Name: N/S
Sample Site: SOUTH PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 92-5600-1
Received Date: 06/25/92
Sampled By: GREEN

Sample ID.: 1A Sample Date: 06/24/92 Time: AM

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	3	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 1A Test Parameters continued on next page

Client: CEDAR CHEMICAL

Project Number: GW-2
Project Name: N/S
Sample Site: SOUTH PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 92-5600-1
Received Date: 06/25/92
Sampled By: GREEN

Sample ID.: 1A Sample Date: 06/24/92 Time: AM

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	11	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	2
BROMOFLUOROBENZENE *SURR*	% REC	98	
1,2-DICHLOROETHANE D4 *SURR*	% REC	96	
TOLUENE D8 *SURR*	% REC	102	

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: GW-2
Project Name: N/S
Sample Site: SOUTH PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 92-5600-2
Received Date: 06/25/92
Sampled By: GREEN

Sample ID.: 2 Sample Date: 06/24/92 Time: AM

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	9	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 2 Test Parameters continued on next page

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: GW-2
Project Name: N/S
Sample Site: SOUTH PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 92-5600-2
Received Date: 06/25/92
Sampled By: GREEN

Sample ID.: 2 Sample Date: 06/24/92 Time: AM

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
XYLENES	PPB	BDL	2
BROMOFLUOROBENZENE *SURR*	% REC	94	
1,2-DICHLOROETHANE D4 *SURR*	% REC	98	
TOLUENE D8 *SURR*	% REC	98	

AnalyticalTechnologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Lab I.D.#: 92-5600-3
Received Date: 06/25/92
Sampled By: GREEN

Project Number: GW-2
Project Name: N/S
Sample Site: SOUTH PLANT
Sample Type: GROUNDWATER

Sample ID.: 4 Sample Date: 06/24/92 Time: AM

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 4 Test Parameters continued on next page

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: GW-2
Project Name: N/S
Sample Site: SOUTH PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 92-5600-3
Received Date: 06/25/92
Sampled By: GREEN

Sample ID.: 4 Sample Date: 06/24/92 Time: AM

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	6	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
XYLENES	PPB	BDL	2
ROMOFLUOROBENZENE *SURR*	% REC	98	
1,2-DICHLOROETHANE D4 *SURR*	% REC	94	
TOLUENE D8 *SURR*	% REC	102	

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: GW-2
Project Name: N/S
Sample Site: SOUTH PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 92-5600-4
Received Date: 06/25/92
Sampled By: GREEN

Sample ID.: 5 Sample Date: 06/24/92 Time: AM

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 5 Test Parameters continued on next page

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: GW-2
Project Name: N/S
Sample Site: SOUTH PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 92-5600-4
Received Date: 06/25/92
Sampled By: GREEN

Sample ID.: 5 Sample Date: 06/24/92 Time: AM

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
OTAL XYLENES	PPB	BDL	2
ROMOFLUOROBENZENE *SURR*	% REC	100	
1,2-DICHLOROETHANE D4 *SURR*	% REC	92	
TOLUENE D8 *SURR*	% REC	102	

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: GW-2
Project Name: N/S
Sample Site: SOUTH PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 92-5600-5
Received Date: 06/25/92
Sampled By: GREEN

Sample ID.: 6 Sample Date: 06/24/92 Time: AM

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 6 Test Parameters continued on next page

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: GW-2
Project Name: N/S
Sample Site: SOUTH PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 92-5600-5
Received Date: 06/25/92
Sampled By: GREEN

Sample ID.: 6 Sample Date: 06/24/92 Time: AM

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	2
BROMOFLUOROBENZENE *SURR*	% REC	102	
1,2-DICHLOROETHANE D4 *SURR*	% REC	112	
TOLUENE D8 *SURR*	% REC	102	

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: GW-2
Project Name: N/S
Sample Site: SOUTH PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 92-5600-6
Received Date: 06/25/92
Sampled By: GREEN

Sample ID.: 7 Sample Date: 06/24/92 Time: AM

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 7 Test Parameters continued on next page

Client: CEDAR CHEMICAL

Project Number: GW-2
Project Name: N/S
Sample Site: SOUTH PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 92-5600-6
Received Date: 06/25/92
Sampled By: GREEN

Sample ID.: 7 Sample Date: 06/24/92 Time: AM

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	2
BROMOFLUOROBENZENE *SURR*	% REC	96	
1,2-DICHLOROETHANE D4 *SURR*	% REC	110	
TOLUENE D8 *SURR*	% REC	108	

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: GW-2
Project Name: N/S
Sample Site: SOUTH PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 92-5600-7
Received Date: 06/25/92
Sampled By: GREEN

Sample ID.: 8 Sample Date: 06/24/92 Time: AM

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 8

Test Parameters continued on next page

AnalyticalTechnologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: GW-2
Project Name: N/S
Sample Site: SOUTH PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 92-5600-7
Received Date: 06/25/92
Sampled By: GREEN

Sample ID.: 8 Sample Date: 06/24/92 Time: AM

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	3	1
OTAL XYLENES	PPB	BDL	2
ROMOFLUOROBENZENE *SURR*	% REC	94	
1,2-DICHLOROETHANE D4 *SURR*	% REC	98	
TOLUENE D8 *SURR*	% REC	104	

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: GW-2
Project Name: N/S
Sample Site: SOUTH PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 92-5600-8
Received Date: 06/25/92
Sampled By: GREEN

Sample ID.: 9 Sample Date: 06/24/92 Time: AM

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 9 Test Parameters continued on next page

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: GW-2
Project Name: N/S
Sample Site: SOUTH PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 92-5600-8
Received Date: 06/25/92
Sampled By: GREEN

Sample ID.: 9 Sample Date: 06/24/92 Time: AM

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	2
BROMOFLUOROBENZENE *SURR*	% REC	98	
1,2-DICHLOROETHANE D4 *SURR*	% REC	96	
TOLUENE D8 *SURR*	% REC	110	

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: GW-2
Project Name: N/S
Sample Site: SOUTH PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 92-5600-9
Received Date: 06/25/92
Sampled By: GREEN

Sample ID.: 10 Sample Date: 06/24/92 Time: AM

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 10 Test Parameters continued on next page

AnalyticalTechnologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: GW-2
Project Name: N/S
Sample Site: SOUTH PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 92-5600-9
Received Date: 06/25/92
Sampled By: GREEN

Sample ID.: 10 Sample Date: 06/24/92 Time: AM

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
XYLENES	PPB	BDL	2
ROMOFLUOROBENZENE *SURR*	% REC	96	
1,2-DICHLOROETHANE D4 *SURR*	% REC	114	
TOLUENE D8 *SURR*	% REC	108	

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: GW-2
Project Name: N/S
Sample Site: SOUTH PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 92-5600-10
Received Date: 06/25/92
Sampled By: GREEN

Sample ID.: 11 Sample Date: 06/24/92 Time: AM

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 11 Test Parameters continued on next page

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: GW-2
Project Name: N/S
Sample Site: SOUTH PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 92-5600-10
Received Date: 06/25/92
Sampled By: GREEN

Sample ID.: 11 Sample Date: 06/24/92 Time: AM

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	19	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	2
BROMOFLUOROBENZENE *SURR*	% REC	92	
1,2-DICHLOROETHANE D4 *SURR*	% REC	98	
TOLUENE D8 *SURR*	% REC	104	

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: GW-2
Project Name: N/S
Sample Site: SOUTH PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 92-5600-11
Received Date: 06/25/92
Sampled By: GREEN

Sample ID.: 12 Sample Date: 06/24/92 Time: AM

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 12 Test Parameters continued on next page

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: GW-2
Project Name: N/S
Sample Site: SOUTH PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 92-5600-11
Received Date: 06/25/92
Sampled By: GREEN

Sample ID.: 12 Sample Date: 06/24/92 Time: AM

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
XYLENES	PPB	BDL	2
BROMOFLUOROBENZENE *SURR*	% REC	92	
1,2-DICHLOROETHANE D4 *SURR*	% REC	94	
TOLUENE D8 *SURR*	% REC	110	

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: GW-2
Project Name: N/S
Sample Site: SOUTH PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 92-5600-12
Received Date: 06/25/92
Sampled By: GREEN

Sample ID.: 13 Sample Date: 06/24/92 Time: AM

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 13 Test Parameters continued on next page

Client: CEDAR CHEMICAL

Project Number: GW-2
Project Name: N/S
Sample Site: SOUTH PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 92-5600-12
Received Date: 06/25/92
Sampled By: GREEN

Sample ID.: 13 Sample Date: 06/24/92 Time: AM

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	2
BROMOFLUOROBENZENE *SURR*	% REC	94	
1,2-DICHLOROETHANE D4 *SURR*	% REC	92	
TOLUENE D8 *SURR*	% REC	110	

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: GW-2
Project Name: N/S
Sample Site: SOUTH PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 92-5600-15
Received Date: 06/25/92
Sampled By: GREEN

Sample ID.: 14 Sample Date: 06/24/92 Time: AM

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 14 Test Parameters continued on next page

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: GW-2
Project Name: N/S
Sample Site: SOUTH PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 92-5600-15
Received Date: 06/25/92
Sampled By: GREEN

Sample ID.: 14 Sample Date: 06/24/92 Time: AM

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
XYLENES	PPB	BDL	2
ROMOFLUOROBENZENE *SURR*	% REC	102	
1,2-DICHLOROETHANE D4 *SURR*	% REC	96	
TOLUENE D8 *SURR*	% REC	100	

end of report

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: GW-2
Project Name: N/S
Sample Site: SOUTH PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 92-5600-13
Received Date: 06/25/92
Sampled By: GREEN

Sample ID.: 16 Sample Date: 06/24/92 Time: AM

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 16 Test Parameters continued on next page

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: GW-2
Project Name: N/S
Sample Site: SOUTH PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 92-5600-13
Received Date: 06/25/92
Sampled By: GREEN

Sample ID.: 16 Sample Date: 06/24/92 Time: AM

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
XYLENES	PPB	BDL	2
ROMOFLUOROBENZENE *SURR*	% REC	100	
1,2-DICHLOROETHANE D4 *SURR*	% REC	94	
TOLUENE D8 *SURR*	% REC	98	

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: GW-2
Project Name: N/S
Sample Site: SOUTH PLANT
Sample Type: WATER

Lab I.D.#: 92-5600-14
Received Date: 06/25/92
Sampled By: GREEN

Sample ID.: TRIP BLANK Sample Date: 06/24/92 Time: AM

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: TRIP BLANK Test Parameters continued on next page

Client: CEDAR CHEMICAL

Project Number: GW-2
Project Name: N/S
Sample Site: SOUTH PLANT
Sample Type: WATER

Lab I.D.#: 92-5600-14
Received Date: 06/25/92
Sampled By: GREEN

Sample ID.: TRIP BLANK Sample Date: 06/24/92 Time: AM

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
XYLENES	PPB	BDL	2
BROMOFLUOROBENZENE *SURR*	% REC	98	
1,2-DICHLOROETHANE D4 *SURR*	% REC	94	
TOLUENE D8 *SURR*	% REC	102	

CEDAR CHEMICAL CORPORATION

24th Floor • 5100 Poplar Avenue • Memphis, TN 38137 • 901-685-5348

REPLY TO: P.O. BOX 821003
VICKSBURG, MS 39182
(601) 636-1231

CERTIFIED MAIL
RETURN RECEIPT REQUESTED
P 413 276 262

Mr. John Taylor
Environmental Engineer
Mississippi Department of Environmental Quality
2380 Highway 80 West
Jackson, MS 39204

April 13, 1991

Re: Cedar Chemical Corporation
Groundwater Monitoring, 1st Quarter, 1992

Dear Mr. Taylor:

Please find enclosed copies of the results of the 1st Quarter, 1992, Groundwater Monitoring analyses required by DEQ Commission Order 1253 87.

Sincerely,

Steven T. Boswell

Steven T. Boswell
Director of Env. Affairs

STB: pc

xc: Mr. Miles
Mr. Madsen
Mr. Karkkainen, Woodward-Clyde

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

CEDAR CHEMICAL
P. O. BOX 821003

VICKSBURG MS 39182-1003

Lab I.D.#: 92-2055
Order Number: P55702
Received Date: 03/17/92
Client: 02111
Sampled By: N/S
Sample Date: 03/16/92
Sample Time: N/S

Project Number: PO 01-31549
Project Name: N/S
Sample Site: N/S
Sample Type: GROUNDWATER

N/S = Not Submitted

Lab ID	Sample ID	Parameter	Units	Results	Detection Limit
2055-1	WELL # 1A	ARSENIC	PPM	BDL	0.005
2055-2	2	ARSENIC	PPM	BDL	0.005
2055-3	3	ARSENIC	PPM	BDL	0.005
2055-4	4	ARSENIC	PPM	BDL	0.005
2055-5	5	ARSENIC	PPM	0.006	0.005
2055-6	6	ARSENIC	PPM	BDL	0.005
2055-7	7	ARSENIC	PPM	0.011	0.005
2055-8	8	ARSENIC	PPM	0.039	0.005
2055-9	9	ARSENIC	PPM	BDL	0.005
2055-10	10	ARSENIC	PPM	0.006	0.005
2055-11	11	ARSENIC	PPM	BDL	0.005
2055-12	12	ARSENIC	PPM	0.009	0.005
2055-13	13	ARSENIC	PPM	BDL	0.005
2055-14	14	ARSENIC	PPM	BDL	0.005
2055-15	16	ARSENIC	PPM	BDL	0.005
2055-16	TRIP BLANK	ARSENIC	PPM	BDL	0.005
2055-1	WELL # 1A	DINOSEB	PPB	237	5
2055-2	2	DINOSEB	PPB	BDL	5
2055-3	3	DINOSEB	PPB	BDL	5
2055-4	4	DINOSEB	PPB	BDL	5
2055-5	5	DINOSEB	PPB	BDL	5
2055-6	6	DINOSEB	PPB	BDL	5
2055-7	7	DINOSEB	PPB	BDL	5
2055-8	8	DINOSEB	PPB	BDL	5
2055-9	9	DINOSEB	PPB	BDL	5
2055-10	10	DINOSEB	PPB	BDL	5
2055-11	11	DINOSEB	PPB	BDL	5
2055-12	12	DINOSEB	PPB	BDL	5
2055-13	13	DINOSEB	PPB	BDL	5
2055-14	14	DINOSEB	PPB	BDL	5
2055-15	16	DINOSEB	PPB	BDL	5

Comments: PPM = Parts Per Million, mg/l. PPB = Parts Per Billion, ug/l. Method Refs: EPA 600/4-79-020, 3/83, SW-846, 3rd Ed, November 1986 and Fed Reg 40 CFR Part 136, 7/1/90. BDL = Below Detection Limits

Approved By : R. Michelotti

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: PO 01-31549
Project Name: N/S
Sample Site: N/S
Sample Type: GROUNDWATER

Lab I.D.#: 92-2055
Received Date: 03/17/92
Sampled By: N/S

Single Tests continued Sample Date: 03/16/92 Time: N/S

Lab ID	Sample ID	Parameter	Units	Results	Detection Limit
2055-16	TRIP BLANK	DINOSEB	PPB	BDL	5
2055-1	WELL # 1A	TOXAPHENE	PPB	BDL	0.5
2055-2	2	TOXAPHENE	PPB	BDL	0.5
2055-3	3	TOXAPHENE	PPB	BDL	0.5
2055-4	4	TOXAPHENE	PPB	BDL	0.5
2055-5	5	TOXAPHENE	PPB	BDL	0.5
2055-6	6	TOXAPHENE	PPB	12.3	0.5
2055-7	7	TOXAPHENE	PPB	BDL	0.5
2055-8	8	TOXAPHENE	PPB	BDL	0.5
2055-9	9	TOXAPHENE	PPB	BDL	0.5
2055-10	10	TOXAPHENE	PPB	BDL	0.5
2055-11	11	TOXAPHENE	PPB	BDL	0.5
2055-12	12	TOXAPHENE	PPB	BDL	0.5
2055-13	13	TOXAPHENE	PPB	BDL	0.5
2055-14	14	TOXAPHENE	PPB	BDL	0.5
2055-15	16	TOXAPHENE	PPB	BDL	0.5
2055-16	TRIP BLANK	TOXAPHENE	PPB	BDL	0.5

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: PO 01-31549
Project Name: N/S
Sample Site: N/S
Sample Type: GROUNDWATER

Lab I.D.#: 92-2055-1
Received Date: 03/17/92
Sampled By: N/S

Sample ID.: WELL # 1A Sample Date: 03/16/92 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	4	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: WELL # 1A Test Parameters continued on next page

AnalyticalTechnologies,Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: PO 01-31549
Project Name: N/S
Sample Site: N/S
Sample Type: GROUNDWATER

Lab I.D.#: 92-2055-1
Received Date: 03/17/92
Sampled By: N/S

Sample ID.: WELL # 1A Sample Date: 03/16/92 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	13	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	100	
1,2-DICHLOROETHANE D4 *SURR*	% REC	93	
TOLUENE D8 *SURR*	% REC	102	

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: PO 01-31549
Project Name: N/S
Sample Site: N/S
Sample Type: GROUNDWATER

Lab I.D.#: 92-2055-2
Received Date: 03/17/92
Sampled By: N/S

Sample ID.: 2 Sample Date: 03/16/92 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	8	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Test Parameters continued on next page

AnalyticalTechnologies,Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: PO 01-31549
Project Name: N/S
Sample Site: N/S
Sample Type: GROUNDWATER

Lab I.D.#: 92-2055-2
Received Date: 03/17/92
Sampled By: N/S

Sample ID.: 2 Sample Date: 03/16/92 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	106	
1,2-DICHLOROETHANE D4 *SURR*	% REC	98	
TOLUENE D8 *SURR*	% REC	102	

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: PO 01-31549
Project Name: N/S
Sample Site: N/S
Sample Type: GROUNDWATER

Lab I.D.#: 92-2055-3
Received Date: 03/17/92
Sampled By: N/S

Sample ID.: 3 Sample Date: 03/16/92 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 3 Test Parameters continued on next page

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: PO 01-31549
Project Name: N/S
Sample Site: N/S
Sample Type: GROUNDWATER

Lab I.D.#: 92-2055-3
Received Date: 03/17/92
Sampled By: N/S

Sample ID.: 3 Sample Date: 03/16/92 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	103	
1,2-DICHLOROETHANE D4 *SURR*	% REC	98	
TOLUENE D8 *SURR*	% REC	101	

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: PO 01-31549
Project Name: N/S
Sample Site: N/S
Sample Type: GROUNDWATER

Lab I.D.#: 92-2055-4
Received Date: 03/17/92
Sampled By: N/S

Sample ID.: 4 Sample Date: 03/16/92 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 4 Test Parameters continued on next page

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: PO 01-31549
Project Name: N/S
Sample Site: N/S
Sample Type: GROUNDWATER

Lab I.D.#: 92-2055-4
Received Date: 03/17/92
Sampled By: N/S

Sample ID.: 4 Sample Date: 03/16/92 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	104	
1,2-DICHLOROETHANE D4 *SURR*	% REC	102	
TOLUENE D8 *SURR*	% REC	102	

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: PO 01-31549
Project Name: N/S
Sample Site: N/S
Sample Type: GROUNDWATER

Lab I.D.#: 92-2055-5
Received Date: 03/17/92
Sampled By: N/S

Sample ID.: 5 Sample Date: 03/16/92 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 5 Test Parameters continued on next page

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: PO 01-31549
Project Name: N/S
Sample Site: N/S
Sample Type: GROUNDWATER

Lab I.D.#: 92-2055-5
Received Date: 03/17/92
Sampled By: N/S

Sample ID.: 5 Sample Date: 03/16/92 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	104	
1,2-DICHLOROETHANE D4 *SURR*	% REC	104	
TOLUENE D8 *SURR*	% REC	100	

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: PO 01-31549
Project Name: N/S
Sample Site: N/S
Sample Type: GROUNDWATER

Lab I.D.#: 92-2055-6
Received Date: 03/17/92
Sampled By: N/S

Sample ID.: 6 Sample Date: 03/16/92 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 6

Test Parameters continued on next page

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: PO 01-31549
Project Name: N/S
Sample Site: N/S
Sample Type: GROUNDWATER

Lab I.D.#: 92-2055-6
Received Date: 03/17/92
Sampled By: N/S

Sample ID.: 6 Sample Date: 03/16/92 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	103	
1,2-DICHLOROETHANE D4 *SURR*	% REC	105	
TOLUENE D8 *SURR*	% REC	100	

AnalyticalTechnologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: PO 01-31549
Project Name: N/S
Sample Site: N/S
Sample Type: GROUNDWATER

Lab I.D.#: 92-2055-7
Received Date: 03/17/92
Sampled By: N/S

Sample ID.: 7 Sample Date: 03/16/92 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Test Parameters continued on next page

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: PO 01-31549
Project Name: N/S
Sample Site: N/S
Sample Type: GROUNDWATER

Lab I.D.#: 92-2055-7
Received Date: 03/17/92
Sampled By: N/S

Sample ID.: 7 Sample Date: 03/16/92 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	101	
1,2-DICHLOROETHANE D4 *SURR*	% REC	100	
TOLUENE D8 *SURR*	% REC	100	

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: PO 01-31549
Project Name: N/S
Sample Site: N/S
Sample Type: GROUNDWATER

Lab I.D.#: 92-2055-8
Received Date: 03/17/92
Sampled By: N/S

Sample ID.: 8 Sample Date: 03/16/92 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 8 Test Parameters continued on next page

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: PO 01-31549
Project Name: N/S
Sample Site: N/S
Sample Type: GROUNDWATER

Lab I.D.#: 92-2055-8
Received Date: 03/17/92
Sampled By: N/S

Sample ID.: 8 Sample Date: 03/16/92 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	103	
1,2-DICHLOROETHANE D4 *SURR*	% REC	102	
TOLUENE D8 *SURR*	% REC	103	

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: PO 01-31549
Project Name: N/S
Sample Site: N/S
Sample Type: GROUNDWATER

Lab I.D.#: 92-2055-9
Received Date: 03/17/92
Sampled By: N/S

Sample ID.: 9 Sample Date: 03/16/92 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 9 Test Parameters continued on next page

AnalyticalTechnologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: PO 01-31549
Project Name: N/S
Sample Site: N/S
Sample Type: GROUNDWATER

Lab I.D.#: 92-2055-9
Received Date: 03/17/92
Sampled By: N/S

Sample ID.: 9 Sample Date: 03/16/92 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	103	
1,2-DICHLOROETHANE D4 *SURR*	% REC	100	
TOLUENE D8 *SURR*	% REC	99	

AnalyticalTechnologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: PO 01-31549
Project Name: N/S
Sample Site: N/S
Sample Type: GROUNDWATER

Lab I.D.#: 92-2055-10
Received Date: 03/17/92
Sampled By: N/S

Sample ID.: 10 Sample Date: 03/16/92 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Test Parameters continued on next page

AnalyticalTechnologies,Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: PO 01-31549
Project Name: N/S
Sample Site: N/S
Sample Type: GROUNDWATER

Lab I.D.#: 92-2055-10
Received Date: 03/17/92
Sampled By: N/S

Sample ID.: 10 Sample Date: 03/16/92 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	102	
1,2-DICHLOROETHANE D4 *SURR*	% REC	97	
TOLUENE D8 *SURR*	% REC	99	

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: PO 01-31549
Project Name: N/S
Sample Site: N/S
Sample Type: GROUNDWATER

Lab I.D.#: 92-2055-11
Received Date: 03/17/92
Sampled By: N/S

Sample ID.: 11 Sample Date: 03/16/92 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 11 Test Parameters continued on next page

AnalyticalTechnologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: PO 01-31549
Project Name: N/S
Sample Site: N/S
Sample Type: GROUNDWATER

Lab I.D.#: 92-2055-11
Received Date: 03/17/92
Sampled By: N/S

Sample ID.: 11 Sample Date: 03/16/92 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	18	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	104	
1,2-DICHLOROETHANE D4 *SURR*	% REC	95	
TOLUENE D8 *SURR*	% REC	101	

AnalyticalTechnologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: PO 01-31549
Project Name: N/S
Sample Site: N/S
Sample Type: GROUNDWATER

Lab I.D.#: 92-2055-12
Received Date: 03/17/92
Sampled By: N/S

Sample ID.: 12 Sample Date: 03/16/92 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Test Parameters continued on next page

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: PO 01-31549
Project Name: N/S
Sample Site: N/S
Sample Type: GROUNDWATER

Lab I.D.#: 92-2055-12
Received Date: 03/17/92
Sampled By: N/S

Sample ID.: 12 Sample Date: 03/16/92 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	100	
1,2-DICHLOROETHANE D4 *SURR*	% REC	105	
TOLUENE D8 *SURR*	% REC	100	

AnalyticalTechnologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: PO 01-31549
Project Name: N/S
Sample Site: N/S
Sample Type: GROUNDWATER

Lab I.D.#: 92-2055-13
Received Date: 03/17/92
Sampled By: N/S

Sample ID.: 13 Sample Date: 03/16/92 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Test Parameters continued on next page

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: PO 01-31549
Project Name: N/S
Sample Site: N/S
Sample Type: GROUNDWATER

Lab I.D.#: 92-2055-13
Received Date: 03/17/92
Sampled By: N/S

Sample ID.: 13 Sample Date: 03/16/92 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	101	
1,2-DICHLOROETHANE D4 *SURR*	% REC	101	
TOLUENE D8 *SURR*	% REC	101	

AnalyticalTechnologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: PO 01-31549
Project Name: N/S
Sample Site: N/S
Sample Type: GROUNDWATER

Lab I.D.#: 92-2055-14
Received Date: 03/17/92
Sampled By: N/S

Sample ID.: 14 Sample Date: 03/16/92 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 14 Test Parameters continued on next page

AnalyticalTechnologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: PO 01-31549
Project Name: N/S
Sample Site: N/S
Sample Type: GROUNDWATER

Lab I.D.#: 92-2055-14
Received Date: 03/17/92
Sampled By: N/S

Sample ID.: 14 Sample Date: 03/16/92 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	102	
1,2-DICHLOROETHANE D4 *SURR*	% REC	100	
TOLUENE D8 *SURR*	% REC	100	

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: PO 01-31549
Project Name: N/S
Sample Site: N/S
Sample Type: GROUNDWATER

Lab I.D.#: 92-2055-15
Received Date: 03/17/92
Sampled By: N/S

Sample ID.: 16 Sample Date: 03/16/92 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 16

Test Parameters continued on next page

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: PO 01-31549
Project Name: N/S
Sample Site: N/S
Sample Type: GROUNDWATER

Lab I.D.#: 92-2055-15
Received Date: 03/17/92
Sampled By: N/S

Sample ID.: 16 Sample Date: 03/16/92 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	105	
1,2-DICHLOROETHANE D4 *SURR*	% REC	103	
TOLUENE D8 *SURR*	% REC	103	

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: PO 01-31549
Project Name: N/S
Sample Site: N/S
Sample Type: WATER

Lab I.D.#: 92-2055-16
Received Date: 03/17/92
Sampled By: N/S

Sample ID.: TRIP BLANK Sample Date: 03/16/92 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: TRIP BLANK

Test Parameters continued on next page

Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: PO 01-31549
Project Name: N/S
Sample Site: N/S
Sample Type: WATER

Lab I.D.#: 92-2055-16
Received Date: 03/17/92
Sampled By: N/S

Sample ID.: TRIP BLANK Sample Date: 03/16/92 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	101	
1,2-DICHLOROETHANE D4 *SURR*	% REC	100	
TOLUENE D8 *SURR*	% REC	105	

end of report

Cedar Chemical Corporation
Groundwater Sampling
March 13, 1992

Well No.	Water Elevation, MSL
1A	107.8'
2	100.76'
3	90.00'
4	108.10'
5	86.21'
6	89.38'
7	93.98'
8	103.73
9	111.30'
10	107.80'
11	97.64'
12	109.94'
13	109.68'
14	107.64'
16	109.05'

CEDAR CHEMICAL CORPORATION

24th Floor • 5100 Poplar Avenue • Memphis, TN 38137 • 901-685-5348

REPLY TO: P.O. BOX 3
VICKSBURG, MS 39181
(601) 636-1991

RECEIVED
JAN 14 1992
Dept. of Environmental Quality
Bureau of Pollution Control

CERTIFIED MAIL
RETURN RECEIPT REQUESTED
P 413 276 248

Mr. John Taylor
Environmental Engineer
Mississippi Department of Environmental Quality
2380 Highway 80 West
Jackson, MS 39204

January 13, 1991

Re: Cedar Chemical Corporation
Groundwater Monitoring, 4th Quarter, 1991

Dear Mr. Taylor:

Please find enclosed copies of the results of the 4th Quarter, 1991, Groundwater Monitoring analyses required by DEQ Commiss: Order 1253 87.

Sincerely,

Steven T. Boswell
Director of Env. Affairs

STB: pc

xc: Mr. Miles
Mr. Madsen
Mr. Karkkainen, Woodward-Clyde

Cedar Chemical Corporation
Groundwater Sampling
December 14, 1991

Well No.	Water Elevation, MSL
1A	108.7'
2	100.34'
3	82.44'
4	107.89'
5	87.08'
6	90.03'
7	95.94'
8	102.7'
9	111.03'
10	107.78'
11	98.91'
12	109.77'
13	109.03'
14	108.88'
16	109.02'

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

CEDAR CHEMICAL
P. O. BOX 3

VICKSBURG MS 39181-0000

Lab I.D.#: 91-9408
Order Number: P52442
Received Date: 12/19/91
Client: 02111
Sampled By: DAVID GREEN
Sample Date: 12/17&18
Sample Time: N/S

Project Number: GW-91-4
Project Name: N/S
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

N/S = Not Submitted

Lab ID	Sample ID	Parameter	Units	Results	Detection Limit
9408-1	WELL 1A	ARSENIC	PPM	BDL	0.003
9408-2	WELL 2	ARSENIC	PPM	BDL	0.003
9408-3	WELL 9	ARSENIC	PPM	BDL	0.003
9408-4	WELL 10	ARSENIC	PPM	0.006	0.003
9408-5	WELL 11	ARSENIC	PPM	BDL	0.003
9408-6	WELL 12	ARSENIC	PPM	0.011	0.003
9408-7	WELL 13	ARSENIC	PPM	0.003	0.003
9408-8	WELL 14	ARSENIC	PPM	BDL	0.003
9408-9	WELL 16	ARSENIC	PPM	0.005	0.003
9408-10	WELL 3	ARSENIC	PPM	BDL	0.003
9408-11	WELL 4	ARSENIC	PPM	BDL	0.003
9408-12	WELL 5	ARSENIC	PPM	0.008	0.003
9408-13	WELL 6	ARSENIC	PPM	BDL	0.003
9408-14	WELL 7	ARSENIC MCL .05 mg/l	PPM	0.009	0.003
9408-15	WELL 8	ARSENIC	PPM	? 0.049	0.003
9408-16	FIELD BLANK	ARSENIC	PPM	BDL	0.003
9408-17	RINSATE BLANK	ARSENIC	PPM	BDL	0.003
9408-1	WELL 1A	DINOSEB	PPB	67.0	5
9408-2	WELL 2	DINOSEB Proposed MCL .007 mg/l	PPB	BDL	5
9408-3	WELL 9	DINOSEB	PPB	BDL	5
9408-4	WELL 10	DINOSEB	PPB	BDL	5
9408-5	WELL 11	DINOSEB	PPB	BDL	5
9408-6	WELL 12	DINOSEB	PPB	BDL	5
9408-7	WELL 13	DINOSEB	PPB	BDL	5
9408-8	WELL 14	DINOSEB	PPB	BDL	5
9408-9	WELL 16	DINOSEB	PPB	BDL	5
9408-10	WELL 3	DINOSEB	PPB	BDL	5
9408-11	WELL 4	DINOSEB	PPB	BDL	5
9408-12	WELL 5	DINOSEB	PPB	BDL	5
9408-13	WELL 6	DINOSEB	PPB	BDL	5
9408-14	WELL 7	DINOSEB	PPB	BDL	5

Comments: PPM = Parts Per Million, mg/l. PPB = Parts Per Billion, ug/l. Method Refs: EPA 600/4-79-020, 3/83, SW-846, 3rd Edition, 11/86 and Fed Reg 40 CFR Part 136, 7/1/90. BDL = Below Detection Limits.

Approved By : Ed Micheletti

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: GW-91-4
Project Name: N/S
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 91-9408
Received Date: 12/19/91
Sampled By: DAVID GREEN

Single Tests continued Sample Date: 12/17&18 Time: N/S

Lab ID	Sample ID	Parameter	Units	Results	Detection Limit
9408-15	WELL 8	DINOSEB	PPB	BDL	5
9408-16	FIELD BLANK	DINOSEB	PPB	BDL	5
9408-17	RINSATE BLANK	DINOSEB	PPB	BDL	5
9408-1	WELL 1A	TOXAPHENE	PPB	BDL	0.5
9408-2	WELL 2	TOXAPHENE	PPB	BDL	0.5
9408-3	WELL 9	TOXAPHENE	PPB	BDL	0.5
9408-4	WELL 10	TOXAPHENE	PPB	BDL	0.5
9408-5	WELL 11	TOXAPHENE	PPB	BDL	0.5
9408-6	WELL 12	TOXAPHENE	PPB	BDL	0.5
9408-7	WELL 13	TOXAPHENE	PPB	BDL	0.5
9408-8	WELL 14	TOXAPHENE	PPB	BDL	0.5
9408-9	WELL 16	TOXAPHENE	PPB	BDL	0.5
9408-10	WELL 3	TOXAPHENE	PPB	BDL	0.5
9408-11	WELL 4	TOXAPHENE	PPB	BDL	0.5
9408-12	WELL 5	TOXAPHENE	PPB	BDL	0.5
9408-13	WELL 6	TOXAPHENE	PPB	18.8	0.5
9408-14	WELL 7	TOXAPHENE	PPB	BDL	0.5
9408-15	WELL 8	TOXAPHENE	PPB	BDL	0.5
9408-16	FIELD BLANK	TOXAPHENE	PPB	BDL	0.5
9408-17	RINSATE BLANK	TOXAPHENE	PPB	BDL	0.5

MCL .003 mg/l

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: GW-91-4
Project Name: N/S
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 91-9408-1
Received Date: 12/19/91
Sampled By: DAVID GREEN

Sample ID.: WELL 1A Sample Date: 12/17&18 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	4	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: WELL 1A Test Parameters continued on next page

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: GW-91-4
Project Name: N/S
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 91-9408-1
Received Date: 12/19/91
Sampled By: DAVID GREEN

Sample ID.: WELL 1A Sample Date: 12/17&18 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	9	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	95	
1,2-DICHLOROETHANE D4 *SURR*	% REC	87	
TOLUENE D8 *SURR*	% REC	106	

mCL
5 ppb

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: GW-91-4
Project Name: N/S
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 91-9408-2
Received Date: 12/19/91
Sampled By: DAVID GREEN

Sample ID.: WELL 2 Sample Date: 12/17&18 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	11	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: WELL 2 Test Parameters continued on next page

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: GW-91-4
Project Name: N/S
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 91-9408-2
Received Date: 12/19/91
Sampled By: DAVID GREEN

Sample ID.: WELL 2 Sample Date: 12/17&18 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	94	
1,2-DICHLOROETHANE D4 *SURR*	% REC	93	
TOLUENE D8 *SURR*	% REC	105	

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: GW-91-4
Project Name: N/S
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 91-9408-10
Received Date: 12/19/91
Sampled By: DAVID GREEN

Sample ID.: WELL 3 Sample Date: 12/17&18 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Test Parameters continued on next page

Analytical Technologies, Inc.
1.1 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: GW-91-4
Project Name: N/S
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 91-9408-10
Received Date: 12/19/91
Sampled By: DAVID GREEN

Sample ID.: WELL 3 Sample Date: 12/17&18 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	101	
1,2-DICHLOROETHANE D4 *SURR*	% REC	100	
TOLUENE D8 *SURR*	% REC	100	

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: GW-91-4
Project Name: N/S
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 91-9408-11
Received Date: 12/19/91
Sampled By: DAVID GREEN

Sample ID.: WELL 4 Sample Date: 12/17&18 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: WELL 4 Test Parameters continued on next page

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: GW-91-4
Project Name: N/S
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 91-9408-11
Received Date: 12/19/91
Sampled By: DAVID GREEN

Sample ID.: WELL 4 Sample Date: 12/17&18 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	94	
1,2-DICHLOROETHANE D4 *SURR*	% REC	97	
TOLUENE D8 *SURR*	% REC	103	

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: GW-91-4
Project Name: N/S
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 91-9408-12
Received Date: 12/19/91
Sampled By: DAVID GREEN

Sample ID.: WELL 5 Sample Date: 12/17&18 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: WELL 5 Test Parameters continued on next page

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: GW-91-4
Project Name: N/S
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 91-9408-12
Received Date: 12/19/91
Sampled By: DAVID GREEN

Sample ID.: WELL 5 Sample Date: 12/17&18 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	91	
1,2-DICHLOROETHANE D4 *SURR*	% REC	96	
TOLUENE D8 *SURR*	% REC	101	

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: GW-91-4
Project Name: N/S
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 91-9408-13
Received Date: 12/19/91
Sampled By: DAVID GREEN

Sample ID.: WELL 6 Sample Date: 12/17&18 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

 Test Parameters continued on next page

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: GW-91-4
Project Name: N/S
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 91-9408-13
Received Date: 12/19/91
Sampled By: DAVID GREEN

Sample ID.: WELL 6 Sample Date: 12/17&18 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	103	
1,2-DICHLOROETHANE D4 *SURR*	% REC	96	
TOLUENE D8 *SURR*	% REC	103	

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: GW-91-4
Project Name: N/S
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 91-9408-14
Received Date: 12/19/91
Sampled By: DAVID GREEN

Sample ID.: WELL 7 Sample Date: 12/17&18 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Test Parameters continued on next page

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: GW-91-4
Project Name: N/S
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 91-9408-14
Received Date: 12/19/91
Sampled By: DAVID GREEN

Sample ID.: WELL 7 Sample Date: 12/17&18 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	91	
1,2-DICHLOROETHANE D4 *SURR*	% REC	92	
TOLUENE D8 *SURR*	% REC	100	

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: GW-91-4
Project Name: N/S
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 91-9408-15
Received Date: 12/19/91
Sampled By: DAVID GREEN

Sample ID.: WELL 8 Sample Date: 12/17&18 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Test Parameters continued on next page

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: GW-91-4
Project Name: N/S
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 91-9408-15
Received Date: 12/19/91
Sampled By: DAVID GREEN

Sample ID.: WELL 8 Sample Date: 12/17&18 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	5	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	97	
1,2-DICHLOROETHANE D4 *SURR*	% REC	98	
TOLUENE D8 *SURR*	% REC	105	

MCL 2 PPB

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: GW-91-4
Project Name: N/S
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 91-9408-3
Received Date: 12/19/91
Sampled By: DAVID GREEN

Sample ID.: WELL 9 Sample Date: 12/17&18 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: WELL 9

Test Parameters continued on next page

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: GW-91-4
Project Name: N/S
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 91-9408-3
Received Date: 12/19/91
Sampled By: DAVID GREEN

Sample ID.: WELL 9 Sample Date: 12/17&18 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	90	
1,2-DICHLOROETHANE D4 *SURR*	% REC	88	
TOLUENE D8 *SURR*	% REC	102	

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: GW-91-4
Project Name: N/S
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 91-9408-4
Received Date: 12/19/91
Sampled By: DAVID GREEN

Sample ID.: WELL 10 Sample Date: 12/17&18 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: WELL 10

Test Parameters continued on next page

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: GW-91-4
Project Name: N/S
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 91-9408-4
Received Date: 12/19/91
Sampled By: DAVID GREEN

Sample ID.: WELL 10 Sample Date: 12/17&18 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	96	
1,2-DICHLOROETHANE D4 *SURR*	% REC	92	
TOLUENE D8 *SURR*	% REC	101	

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: GW-91-4
Project Name: N/S
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 91-9408-5
Received Date: 12/19/91
Sampled By: DAVID GREEN

Sample ID.: WELL 11 Sample Date: 12/17&18 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: WELL 11 Test Parameters continued on next page

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: GW-91-4
Project Name: N/S
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 91-9408-5
Received Date: 12/19/91
Sampled By: DAVID GREEN

Sample ID.: WELL 11 Sample Date: 12/17&18 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	16	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	95	
1,2-DICHLOROETHANE D4 *SURR*	% REC	86	
TOLUENE D8 *SURR*	% REC	105	

MCL 5ppb

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: GW-91-4
Project Name: N/S
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 91-9408-6
Received Date: 12/19/91
Sampled By: DAVID GREEN

Sample ID.: WELL 12 Sample Date: 12/17&18 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Test Parameters continued on next page

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: GW-91-4
Project Name: N/S
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 91-9408-6
Received Date: 12/19/91
Sampled By: DAVID GREEN

Sample ID.: WELL 12 Sample Date: 12/17&18 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	90	
1,2-DICHLOROETHANE D4 *SURR*	% REC	94	
TOLUENE D8 *SURR*	% REC	102	

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: GW-91-4
Project Name: N/S
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 91-9408-7
Received Date: 12/19/91
Sampled By: DAVID GREEN

Sample ID.: WELL 13 Sample Date: 12/17&18 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: WELL 13

Test Parameters continued on next page

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: GW-91-4
Project Name: N/S
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 91-9408-7
Received Date: 12/19/91
Sampled By: DAVID GREEN

Sample ID.: WELL 13 Sample Date: 12/17&18 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	99	
1,2-DICHLOROETHANE D4 *SURR*	% REC	90	
TOLUENE D8 *SURR*	% REC	106	

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: GW-91-4
Project Name: N/S
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 91-9408-8
Received Date: 12/19/91
Sampled By: DAVID GREEN

Sample ID.: WELL 14 Sample Date: 12/17&18 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: WELL 14

Test Parameters continued on next page

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: GW-91-4
Project Name: N/S
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 91-9408-8
Received Date: 12/19/91
Sampled By: DAVID GREEN

Sample ID.: WELL 14 Sample Date: 12/17&18 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	102	
1,2-DICHLOROETHANE D4 *SURR*	% REC	91	
TOLUENE D8 *SURR*	% REC	103	

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: GW-91-4
Project Name: N/S
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 91-9408-9
Received Date: 12/19/91
Sampled By: DAVID GREEN

Sample ID.: WELL 16 Sample Date: 12/17&18 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Test Parameters continued on next page

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: GW-91-4
Project Name: N/S
Sample Site: VICKSBURG PLANT
Sample Type: GROUNDWATER

Lab I.D.#: 91-9408-9
Received Date: 12/19/91
Sampled By: DAVID GREEN

Sample ID.: WELL 16 Sample Date: 12/17&18 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	99	
1,2-DICHLOROETHANE D4 *SURR*	% REC	98	
TOLUENE D8 *SURR*	% REC	100	

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: GW-91-4
Project Name: N/S
Sample Site: VICKSBURG PLANT
Sample Type: WATER

Lab I.D.#: 91-9408-16
Received Date: 12/19/91
Sampled By: DAVID GREEN

Sample ID.: FIELD BLANK Sample Date: 12/17&18 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: FIELD BLANK Test Parameters continued on next page

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: GW-91-4
Project Name: N/S
Sample Site: VICKSBURG PLANT
Sample Type: WATER

Lab I.D.#: 91-9408-16
Received Date: 12/19/91
Sampled By: DAVID GREEN

Sample ID.: FIELD BLANK Sample Date: 12/17&18 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	95	
1,2-DICHLOROETHANE D4 *SURR*	% REC	106	
TOLUENE D8 *SURR*	% REC	99	

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: GW-91-4
Project Name: N/S
Sample Site: VICKSBURG PLANT
Sample Type: WATER

Lab I.D.#: 91-9408-17
Received Date: 12/19/91
Sampled By: DAVID GREEN

Sample ID.: RINSATE BLANK Sample Date: 12/17&18 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

 Test Parameters continued on next page

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: GW-91-4
Project Name: N/S
Sample Site: VICKSBURG PLANT
Sample Type: WATER

Lab I.D.#: 91-9408-17
Received Date: 12/19/91
Sampled By: DAVID GREEN

Sample ID.: RINSATE BLANK Sample Date: 12/17&18 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	98	
1,2-DICHLOROETHANE D4 *SURR*	% REC	96	
TOLUENE D8 *SURR*	% REC	103	

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: GW-91-4
Project Name: N/S
Sample Site: VICKSBURG PLANT
Sample Type: WATER

Lab I.D.#: 91-9408-18
Received Date: 12/19/91
Sampled By: DAVID GREEN

Sample ID.: TRIP BLANK Sample Date: 12/17&18 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: TRIP BLANK Test Parameters continued on next page

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: GW-91-4
Project Name: N/S
Sample Site: VICKSBURG PLANT
Sample Type: WATER

Lab I.D.#: 91-9408-18
Received Date: 12/19/91
Sampled By: DAVID GREEN

Sample ID.: TRIP BLANK Sample Date: 12/17&18 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	91	
1,2-DICHLOROETHANE D4 *SURR*	% REC	101	
TOLUENE D8 *SURR*	% REC	100	

end of report

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-110591
Project Name: N/S
Sample Site: N/S
Sample Type: GROUNDWATER

Lab I.D.#: 91-8259-1
Received Date: 11/12/91
Sampled By: N/S

Sample ID.: WELL #1A Sample Date: 11/10/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	100	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	4	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: WELL #1A Test Parameters continued on next page

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-110591
Project Name: N/S
Sample Site: N/S
Sample Type: GROUNDWATER

Lab I.D.#: 91-8259-1
Received Date: 11/12/91
Sampled By: N/S

Sample ID.: WELL #1A Sample Date: 11/10/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	9	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	96	
1,2-DICHLOROETHANE D4 *SURR*	% REC	89	
TOLUENE D8 *SURR*	% REC	100	

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-110591
Project Name: N/S
Sample Site: N/S
Sample Type: GROUNDWATER

Lab I.D.#: 91-8259-2
Received Date: 11/12/91
Sampled By: N/S

Sample ID.: WELL #2 Sample Date: 11/10/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	10	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: WELL #2 Test Parameters continued on next page

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-110591
Project Name: N/S
Sample Site: N/S
Sample Type: GROUNDWATER

Lab I.D.#: 91-8259-2
Received Date: 11/12/91
Sampled By: N/S

Sample ID.: WELL #2 Sample Date: 11/10/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	2	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	96	
1,2-DICHLOROETHANE D4 *SURR*	% REC	89	
TOLUENE D8 *SURR*	% REC	102	

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-110591
Project Name: N/S
Sample Site: N/S
Sample Type: GROUNDWATER

Lab I.D.#: 91-8259-3
Received Date: 11/12/91
Sampled By: N/S

Sample ID.: WELL #5 Sample Date: 11/10/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Test Parameters continued on next page

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-110591
Project Name: N/S
Sample Site: N/S
Sample Type: GROUNDWATER

Lab I.D.#: 91-8259-3
Received Date: 11/12/91
Sampled By: N/S

Sample ID.: WELL #5 Sample Date: 11/10/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	98	
1,2-DICHLOROETHANE D4 *SURR*	% REC	90	
TOLUENE D8 *SURR*	% REC	102	

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-110591
Project Name: N/S
Sample Site: N/S
Sample Type: GROUNDWATER

Lab I.D.#: 91-8259-4
Received Date: 11/12/91
Sampled By: N/S

Sample ID.: WELL #6 Sample Date: 11/10/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: WELL #6 Test Parameters continued on next page

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-110591
Project Name: N/S
Sample Site: N/S
Sample Type: GROUNDWATER

Lab I.D.#: 91-8259-4
Received Date: 11/12/91
Sampled By: N/S

Sample ID.: WELL #6 Sample Date: 11/10/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	4	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	100	
1,2-DICHLOROETHANE D4 *SURR*	% REC	99	
TOLUENE D8 *SURR*	% REC	102	

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-110591
Project Name: N/S
Sample Site: N/S
Sample Type: GROUNDWATER

Lab I.D.#: 91-8259-5
Received Date: 11/12/91
Sampled By: N/S

Sample ID.: WELL #11 Sample Date: 11/10/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

 Test Parameters continued on next page

AnalyticalTechnologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-110591
Project Name: N/S
Sample Site: N/S
Sample Type: GROUNDWATER

Lab I.D.#: 91-8259-5
Received Date: 11/12/91
Sampled By: N/S

Sample ID.: WELL #11 Sample Date: 11/10/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	14	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	94	
1,2-DICHLOROETHANE D4 *SURR*	% REC	96	
TOLUENE D8 *SURR*	% REC	101	

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-110591
Project Name: N/S
Sample Site: N/S
Sample Type: GROUNDWATER

Lab I.D.#: 91-8259-6
Received Date: 11/12/91
Sampled By: N/S

Sample ID.: WELL #13 Sample Date: 11/10/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: WELL #13

Test Parameters continued on next page

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-110591
Project Name: N/S
Sample Site: N/S
Sample Type: GROUNDWATER

Lab I.D.#: 91-8259-6
Received Date: 11/12/91
Sampled By: N/S

Sample ID.: WELL #13 Sample Date: 11/10/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	105	
1,2-DICHLOROETHANE D4 *SURR*	% REC	98	
TOLUENE D8 *SURR*	% REC	101	

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-110591
Project Name: N/S
Sample Site: N/S
Sample Type: WATER

Lab I.D.#: 91-8259-7
Received Date: 11/12/91
Sampled By: N/S

Sample ID.: TRIP BLANK Sample Date: 11/10/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: TRIP BLANK Test Parameters continued on next page

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-110591
Project Name: N/S
Sample Site: N/S
Sample Type: WATER

Lab I.D.#: 91-8259-7
Received Date: 11/12/91
Sampled By: N/S

Sample ID.: TRIP BLANK Sample Date: 11/10/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	102	
1,2-DICHLOROETHANE D4 *SURR*	% REC	101	
TOLUENE D8 *SURR*	% REC	100	

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-110591
Project Name: N/S
Sample Site: N/S
Sample Type: WATER

Lab I.D.#: 91-8259-8
Received Date: 11/12/91
Sampled By: N/S

Sample ID.: FIELD BLANK Sample Date: 11/10/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: FIELD BLANK Test Parameters continued on next page

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-110591
Project Name: N/S
Sample Site: N/S
Sample Type: WATER

Lab I.D.#: 91-8259-8
Received Date: 11/12/91
Sampled By: N/S

Sample ID.: FIELD BLANK Sample Date: 11/10/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	100	
1,2-DICHLOROETHANE D4 *SURR*	% REC	102	
TOLUENE D8 *SURR*	% REC	99	

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-110591
Project Name: N/S
Sample Site: N/S
Sample Type: WATER

Lab I.D.#: 91-8259-9
Received Date: 11/12/91
Sampled By: N/S

Sample ID.: RINSATE BLANK Sample Date: 11/10/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: RINSATE BLANK Test Parameters continued on next page

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-110591
Project Name: N/S
Sample Site: N/S
Sample Type: WATER

Lab I.D.#: 91-8259-9
Received Date: 11/12/91
Sampled By: N/S

Sample ID.: RINSATE BLANK Sample Date: 11/10/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	102	
1,2-DICHLOROETHANE D4 *SURR*	% REC	98	
TOLUENE D8 *SURR*	% REC	98	

end of report

Cedar Chemical Corp.
P.O. Box 3
Rifle Range Road
Vicksburg, MS 39181

Date Submitted: 11/12/91
Date Reported: 11/25/91

Attn: David Green

Sample Description: MW-1A
Date Sampled: 11/10/91

Laboratory ID: B1112345
Date Analyzed: 11/22/91

VOLATILE ORGANICS (EPA 8240)

Compound	ug/l
Acetone	ND [50]
Benzene	ND
Bromodichloromethane	ND
Bromoform	ND
Bromomethane	ND [10]
2-Butanone	ND [100]
Carbon Disulfide	ND
Carbon Tetrachloride	ND
Chlorobenzene	ND
Chloroethane	ND [10]
2-Chloroethylvinylether	ND [10]
Chloroform	4
Chloromethane	ND [10]
Dibromochloromethane	ND
1,1-Dichloroethane	ND
1,2-Dichloroethane	ND
1,1-Dichloroethene	ND
Trans-1,2-Dichloroethene	ND
1,2-Dichloropropane	ND
cis-1,3,Dichloropropene	ND
trans-1,3-Dichloropropene	ND
Ethylbenzene	ND
2-Hexanone	ND [50]
Methylene Chloride	ND
4-Methyl-2-pentanone	ND [50]
Styrene	ND
1,1,2,2-Tetrachloroethane	ND
Tetrachloroethene	ND
Toluene	ND
1,1,1-Trichloroethane	ND
1,1,2-Trichloroethane	ND
Trichloroethene	10
Vinyl acetate	ND [50]
Vinyl chloride	ND [10]
Xylenes total	ND

Limit of Practical Quantitation is 5 ug/l, unless otherwise noted in brackets.

Surrogate Recovery:		Recovery Limits
1,2-Dichloroethane-d4	92 %	76-114 %
Toluene-d8	102 %	88-110 %
Bromofluorobenzene	98 %	86-115 %

Sample Description: MW-2
Date Sampled: 11/10/91

Laboratory ID: B1112346
Date Analyzed: 11/22/91

VOLATILE ORGANICS (EPA 8240)

Compound	ug/l
Acetone	ND [50]
Benzene	ND
Bromodichloromethane	ND
Bromoform	ND
Bromomethane	ND [10]
2-Butanone	ND [100]
Carbon Disulfide	ND
Carbon Tetrachloride	ND
Chlorobenzene	ND
Chloroethane	ND [10]
2-Chloroethylvinylether	ND [10]
Chloroform	ND
Chloromethane	ND [10]
Dibromochloromethane	ND
1,1-Dichloroethane	ND
1,2-Dichloroethane	ND
1,1-Dichloroethene	ND
Trans-1,2-Dichloroethene	ND
1,2-Dichloropropane	ND
cis-1,3,Dichloropropene	ND
trans-1,3-Dichloropropene	ND
Ethylbenzene	ND
2-Hexanone	ND [50]
Methylene Chloride	ND
4-Methyl-2-pentanone	ND [50]
Styrene	ND
1,1,2,2-Tetrachloroethane	ND
Tetrachloroethene	ND
Toluene	ND
1,1,1-Trichloroethane	ND
1,1,2-Trichloroethane	ND
Trichloroethene	2J
Vinyl acetate	ND [50]
Vinyl chloride	ND [10]
Xylenes total	ND

Limit of Practical Quantitation is 5 ug/l, unless otherwise noted in brackets.

Surrogate Recovery:		Recovery Limits
1,2-Dichloroethane-d4	102 %	76-114 %
Toluene-d8	106 %	88-110 %
Bromofluorobenzene	106 %	86-115 %

J = Result is less than quantitation limit but greater than zero.

Sample Description: MW-11
Date Sampled: 11/10/91

Laboratory ID: B1112347
Date Analyzed: 11/22/91

VOLATILE ORGANICS (EPA 8240)

Compound	ug/l
Acetone	ND [50]
Benzene	ND
Bromodichloromethane	ND
Bromoform	ND
Bromomethane	ND [10]
2-Butanone	ND [100]
Carbon Disulfide	ND
Carbon Tetrachloride	ND
Chlorobenzene	ND
Chloroethane	ND [10]
2-Chloroethylvinylether	ND [10]
Chloroform	ND
Chloromethane	ND [10]
Dibromochloromethane	ND
1,1-Dichloroethane	ND
1,2-Dichloroethane	ND
1,1-Dichloroethene	ND
Trans-1,2-Dichloroethene	ND
1,2-Dichloropropane	ND
cis-1,3,Dichloropropene	ND
trans-1,3-Dichloropropene	ND
Ethylbenzene	ND
2-Hexanone	ND [50]
Methylene Chloride	ND
4-Methyl-2-pentanone	ND [50]
Styrene	ND
1,1,2,2-Tetrachloroethane	ND
Tetrachloroethene	ND
Toluene	ND
1,1,1-Trichloroethane	ND
1,1,2-Trichloroethane	ND
Trichloroethene	ND
Vinyl acetate	ND [50]
Vinyl chloride	ND [10]
Xylenes total	ND

Limit of Practical Quantitation is 5 ug/l, unless otherwise noted in brackets.

Surrogate Recovery:		Recovery Limits
1,2-Dichloroethane-d4	102 %	76-114 %
Toluene-d8	110 %	88-110 %
Bromofluorobenzene	106 %	86-115 %

Sample Description: MW-13
Date Sampled: 11/10/91

Laboratory ID: B1112348
Date Analyzed: 11/22/91

VOLATILE ORGANICS (EPA 8240)

Compound	ug/l
Acetone	ND [50]
Benzene	ND
Bromodichloromethane	ND
Bromoform	ND
Bromomethane	ND [10]
2-Butanone	ND [100]
Carbon Disulfide	ND
Carbon Tetrachloride	ND
Chlorobenzene	ND
Chloroethane	ND [10]
2-Chloroethylvinylether	ND [10]
Chloroform	ND
Chloromethane	ND [10]
Dibromochloromethane	ND
1,1-Dichloroethane	ND
1,2-Dichloroethane	ND
1,1-Dichloroethene	ND
Trans-1,2-Dichloroethene	ND
1,2-Dichloropropane	ND
cis-1,3,Dichloropropene	ND
trans-1,3-Dichloropropene	ND
Ethylbenzene	ND
2-Hexanone	ND [50]
Methylene Chloride	ND
4-Methyl-2-pentanone	ND [50]
Styrene	ND
1,1,2,2-Tetrachloroethane	ND
Tetrachloroethene	ND
Toluene	ND
1,1,1-Trichloroethane	ND
1,1,2-Trichloroethane	ND
Trichloroethene	ND
Vinyl acetate	ND [50]
Vinyl chloride	ND [10]
Xylenes total	ND

Limit of Practical Quantitation is 5 ug/l, unless otherwise noted in brackets.

Surrogate Recovery:		Recovery Limits
1,2-Dichloroethane-d4	102 %	76-114 %
Toluene-d8	106 %	88-110 %
Bromofluorobenzene	102 %	86-115 %

Sample Description: MW-5
Date Sampled: 11/10/91

Laboratory ID: B1112349
Date Analyzed: 11/22/91

VOLATILE ORGANICS (EPA 8240)

Compound	ug/l
Acetone	ND [50]
Benzene	ND
Bromodichloromethane	ND
Bromoform	ND
Bromomethane	ND [10]
2-Butanone	ND [100]
Carbon Disulfide	ND
Carbon Tetrachloride	ND
Chlorobenzene	ND
Chloroethane	ND [10]
2-Chloroethylvinylether	ND [10]
Chloroform	ND
Chloromethane	ND [10]
Dibromochloromethane	ND
1,1-Dichloroethane	ND
1,2-Dichloroethane	ND
1,1-Dichloroethene	ND
Trans-1,2-Dichloroethene	ND
1,2-Dichloropropane	ND
cis-1,3,Dichloropropene	ND
trans-1,3-Dichloropropene	ND
Ethylbenzene	ND
2-Hexanone	ND [50]
Methylene Chloride	ND
4-Methyl-2-pentanone	ND [50]
Styrene	ND
1,1,2,2-Tetrachloroethane	ND
Tetrachloroethene	ND
Toluene	ND
1,1,1-Trichloroethane	ND
1,1,2-Trichloroethane	ND
Trichloroethene	ND
Vinyl acetate	ND [50]
Vinyl chloride	ND [10]
Xylenes total	ND

Limit of Practical Quantitation is 5 ug/l, unless otherwise noted in brackets.

Surrogate Recovery:		Recovery Limits
1,2-Dichloroethane-d4	108 %	76-114 %
Toluene-d8	108 %	88-110 %
Bromofluorobenzene	106 %	86-115 %

Sample Description: MW-6
Date Sampled: 11/10/91

Laboratory ID: B1112350
Date Analyzed: 11/22/91

VOLATILE ORGANICS (EPA 8240)

Compound	ug/l
Acetone	ND [50]
Benzene	ND
Bromodichloromethane	ND
Bromoform	ND
Bromomethane	ND [10]
2-Butanone	ND [100]
Carbon Disulfide	ND
Carbon Tetrachloride	ND
Chlorobenzene	ND
Chloroethane	ND [10]
2-Chloroethylvinylether	ND [10]
Chloroform	ND
Chloromethane	ND [10]
Dibromochloromethane	ND
1,1-Dichloroethane	ND
1,2-Dichloroethane	ND
1,1-Dichloroethene	ND
Trans-1,2-Dichloroethene	ND
1,2-Dichloropropane	ND
cis-1,3,Dichloropropene	ND
trans-1,3-Dichloropropene	ND
Ethylbenzene	ND
2-Hexanone	ND [50]
Methylene Chloride	ND
4-Methyl-2-pentanone	ND [50]
Styrene	ND
1,1,2,2-Tetrachloroethane	ND
Tetrachloroethene	ND
Toluene	ND
1,1,1-Trichloroethane	ND
1,1,2-Trichloroethane	ND
Trichloroethene	ND
Vinyl acetate	ND [50]
Vinyl chloride	3J [10]
Xylenes total	ND

Limit of Practical Quantitation is 5 ug/l, unless otherwise noted in brackets.

Surrogate Recovery:		Recovery Limits
1,2-Dichloroethane-d4	102 %	76-114 %
Toluene-d8	108 %	88-110 %
Bromofluorobenzene	106 %	86-115 %

J = Result is less than quantitation limit but greater than zero.

CLIENT	: CEDAR CHEMICAL
CLIENT SAMPLE ID	: MW-6
BETZ SAMPLE ID	: 1112-350
SAMPLE MATRIX	: WATER
METHOD	: EPA 608 (extracted 3520)
SAMPLE AMOUNT	: 1000 ml
FINAL EXTD VOL	: 10 ml
DILUTION FACTOR	: 1
DATE EXTRACTED	: 11/13/91
DATE ANALYZED	: 11/18/91
REPORT DATE	: 11/21/91

PESTICIDE QUANTITATION REPORT

PESTICIDE	QUANTITATION LIMIT (ug/L)	AMOUNT FOUND ug/L
TOXAPHENE	1.00	6.8
SURROGATE RECOVERY: (TCMX)	81 %	limit(20-150)
(DCBP)	34 %	limit(20-150)

FLAG DEFINITIONS:
- ND -- NOT DETECTED ABOVE QUANTITATION LIMIT
- B -- COMPOUND FOUND IN BLANK
- J -- ESTIMATED VALUE (BELOW QUANTITATION LIMIT)
- D -- SURROGATE OR MATRIX SPIKE DILUTED OUT SAMPLE RUN AT SECONDARY DILUTION
- I -- SURROGATE NOT QUANTIFIABLE DUE TO MATRIX INTERFERENCE

Sample Description: Rinsate Blank
Date Sampled: 11/10/91

Laboratory ID: B1112351
Date Analyzed: 11/22/91

VOLATILE ORGANICS (EPA 8240)

Compound	ug/l
Acetone	ND [50]
Benzene	ND
Bromodichloromethane	ND
Bromoform	ND
Bromomethane	ND [10]
2-Butanone	ND [100]
Carbon Disulfide	ND
Carbon Tetrachloride	ND
Chlorobenzene	ND
Chloroethane	ND [10]
2-Chloroethylvinylether	ND [10]
Chloroform	ND
Chloromethane	ND [10]
Dibromochloromethane	ND
1,1-Dichloroethane	ND
1,2-Dichloroethane	ND
1,1-Dichloroethene	ND
Trans-1,2-Dichloroethene	ND
1,2-Dichloropropane	ND
cis-1,3,Dichloropropene	ND
trans-1,3-Dichloropropene	ND
Ethylbenzene	ND
2-Hexanone	ND [50]
Methylene Chloride	ND
4-Methyl-2-pentanone	ND [50]
Styrene	ND
1,1,2,2-Tetrachloroethane	ND
Tetrachloroethene	ND
Toluene	ND
1,1,1-Trichloroethane	ND
1,1,2-Trichloroethane	ND
Trichloroethene	ND
Vinyl acetate	ND [50]
Vinyl chloride	ND [10]
Xylenes total	ND

Limit of Practical Quantitation is 5 ug/l, unless otherwise noted in brackets.

Surrogate Recovery:		Recovery Limits
1,2-Dichloroethane-d4	104 %	76-114 %
Toluene-d8	108 %	88-110 %
Bromofluorobenzene	102 %	86-115 %

Sample Description: Trip Blank
Date Sampled: 11/10/91

Laboratory ID: B1112352
Date Analyzed: 11/22/91

VOLATILE ORGANICS (EPA 8240)

Compound	ug/l
Acetone	ND [50]
Benzene	ND
Bromodichloromethane	ND
Bromoform	ND
Bromomethane	ND [10]
2-Butanone	ND [100]
Carbon Disulfide	ND
Carbon Tetrachloride	ND
Chlorobenzene	ND
Chloroethane	ND [10]
2-Chloroethylvinylether	ND [10]
Chloroform	ND
Chloromethane	ND [10]
Dibromochloromethane	ND
1,1-Dichloroethane	ND
1,2-Dichloroethane	ND
1,1-Dichloroethene	ND
Trans-1,2-Dichloroethene	ND
1,2-Dichloropropane	ND
cis-1,3,Dichloropropene	ND
trans-1,3-Dichloropropene	ND
Ethylbenzene	ND
2-Hexanone	ND [50]
Methylene Chloride	ND
4-Methyl-2-pentanone	ND [50]
Styrene	ND
1,1,2,2-Tetrachloroethane	ND
Tetrachloroethene	ND
Toluene	ND
1,1,1-Trichloroethane	ND
1,1,2-Trichloroethane	ND
Trichloroethene	ND
Vinyl acetate	ND [50]
Vinyl chloride	ND [10]
Xylenes total	ND

Limit of Practical Quantitation is 5 ug/l, unless otherwise noted in brackets.

Surrogate Recovery:		Recovery Limits
1,2-Dichloroethane-d4	108 %	76-114 %
Toluene-d8	110 %	88-110 %
Bromofluorobenzene	106 %	86-115 %

Sample Description: Field Blank
Date Sampled: 11/10/91

Laboratory ID: B1112353
Date Analyzed: 11/22/91

VOLATILE ORGANICS (EPA 8240)

Compound	ug/l
Acetone	ND [50]
Benzene	ND
Bromodichloromethane	ND
Bromoform	ND
Bromomethane	ND [10]
2-Butanone	ND [100]
Carbon Disulfide	ND
Carbon Tetrachloride	ND
Chlorobenzene	ND
Chloroethane	ND [10]
2-Chloroethylvinylether	ND [10]
Chloroform	ND
Chloromethane	ND [10]
Dibromochloromethane	ND
1,1-Dichloroethane	ND
1,2-Dichloroethane	ND
1,1-Dichloroethene	ND
Trans-1,2-Dichloroethene	ND
1,2-Dichloropropane	ND
cis-1,3,Dichloropropene	ND
trans-1,3-Dichloropropene	ND
Ethylbenzene	ND
2-Hexanone	ND [50]
Methylene Chloride	ND
4-Methyl-2-pentanone	ND [50]
Styrene	ND
1,1,2,2-Tetrachloroethane	ND
Tetrachloroethene	ND
Toluene	ND
1,1,1-Trichloroethane	ND
1,1,2-Trichloroethane	ND
Trichloroethene	ND
Vinyl acetate	ND [50]
Vinyl chloride	ND [10]
Xylenes total	ND

Limit of Practical Quantitation is 5 ug/l, unless otherwise noted in brackets.

Surrogate Recovery:		Recovery Limits
1,2-Dichloroethane-d4	108 %	76-114 %
Toluene-d8	108 %	88-110 %
Bromofluorobenzene	104 %	86-115 %

CLIENT	: CEDAR CHEMICAL
CLIENT SAMPLE ID	: MW-6 RINSATE BLANK
BETZ SAMPLE ID	: 1112-354
SAMPLE MATRIX	: WATER
METHOD	: EPA 6080(extracted 3520)
SAMPLE AMOUNT	: 1000 ml
FINAL EXTD VOL	: 10 ml
DILUTION FACTOR	: 1
DATE EXTRACTED	: 11/13/91
DATE ANALYZED	: 11/18/91
REPORT DATE	: 11/21/91

PESTICIDE QUANTITATION REPORT

PESTICIDE	QUANTITATION LIMIT (ug/L)	AMOUNT FOUND ug/L
TOXAPHENE	1.00	0.5 J
SURROGATE RECOVERY: (TCMX)	72 %	limit(20-150)
(DCBP)	32 %	limit(20-150)

FLAG DEFINITIONS:

- ND -- NOT DETECTED ABOVE QUANTITATION LIMIT
- B -- COMPOUND FOUND IN BLANK
- J -- ESTIMATED VALUE (BELOW QUANTITATION LIMIT)
- D -- SURROGATE OR MATRIX SPIKE DILUTED OUT SAMPLE RUN AT SECONDARY DILUTION
- I -- SURROGATE NOT QUANTIFIABLE DUE TO MATRIX INTERFERENCE

CEDAR CHEMICAL CORPORATION

24th Floor • 5100 Poplar Avenue • Memphis, TN 38137 • 901-685-5348

REPLY TO: P.O. BOX 3
VICKSBURG, MS 39181
(601) 636-1231

RECEIVED
OCT 29 1991
Dept. of Environmental Quality
Bureau of Pollution Control

CERTIFIED MAIL
RETURN RECEIPT REQUESTED
P 413 276 232

Mr. Trey Fleming
Environmental Engineer
Mississippi Department of Environmental Quality
Bureau of Pollution Control
2380 Highway 80 West
Jackson, MS 39204

October 28, 1991

Re: Cedar Chemical Corporation
Groundwater Monitoring, 3rd Quarter, 1991

Dear Mr. Fleming:

Please find enclosed copies of the results of the 3rd Quarter Groundwater Monitoring analyses required by DEQ Commission Ord 1253 87. As requested by Mr. Toby Cook in his letter of April 1991, the chemicals chloroform, carbon tetrachloride, methyl e... ketone and trichloroethylene (trichloroethene) were added to the list of analyses to be performed.

Although not requested, other Method 8240 volatiles have been analyzed and are reported. Cedar will resample certain of these wells: specifically Nos. 1A, 2, 5, 6, 11 and 13. The results of resampling will be reported as they become available.

If there are any questions concerning this matter, please contact me.

Sincerely,

Steven T. Boswell

Steven T. Boswell
Director of Env. Affairs

STB: pc

xc: Mr. Miles
Mr. Madsen

Cedar Chemical Corporation
Groundwater Sampling
September 29, 1991

Well No.	Water Elevation, MSL
1A	107.11'
2	96.15'
4	106.08'
5	84.53'
6	86.13'
7	89.50'
8	100.87'
9	109.31'
10	106.01'
11	95.7'
12	107.83'
13	107.72'
14	105.13'
16	107.24'

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

CEDAR CHEMICAL
P. O. BOX 3

VICKSBURG MS 39181-0000

Lab I.D.#: 91-7100A
Order Number: P48980
Received Date: 10/01/91
Client: 02111
Sampled By: D. GREEN
Sample Date: 09/29/91
Sample Time: N/S

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: GROUNDWATER

N/S = Not Submitted

Lab ID	Sample ID	Parameter	Units	Results	Detection Limit
7100A-1	WELL #1A	ARSENIC	PPM	BDL	0.003
7100A-2	2	ARSENIC	PPM	BDL	0.003
7100A-3	4	ARSENIC	PPM	BDL	0.003
7100A-4	5	ARSENIC	PPM	0.012	0.003
7100A-5	6	ARSENIC	PPM	BDL	0.003
7100A-6	7	ARSENIC	PPM	0.011	0.003
7100A-7	8	ARSENIC	PPM	0.043	0.003
7100A-8	9	ARSENIC	PPM	BDL	0.003
7100A-9	10	ARSENIC	PPM	0.005	0.003
7100A-10	11	ARSENIC	PPM	BDL	0.003
7100A-11	12	ARSENIC	PPM	0.008	0.003
7100A-12	13	ARSENIC	PPM	BDL	0.003
7100A-13	14	ARSENIC	PPM	BDL	0.003
7100A-14	16	ARSENIC	PPM	0.005	0.003
7100A-15	FIELD BLANK	ARSENIC	PPM	BDL	0.003
7100A-1	WELL #1A	DINOSEB	PPB	163	5
7100A-2	2	DINOSEB	PPB	BDL	5
7100A-3	4	DINOSEB	PPB	BDL	5
7100A-4	5	DINOSEB	PPB	BDL	5
7100A-5	6	DINOSEB	PPB	BDL	5
7100A-6	7	DINOSEB	PPB	BDL	5
7100A-7	8	DINOSEB	PPB	BDL	5
7100A-8	9	DINOSEB	PPB	BDL	5
7100A-9	10	DINOSEB	PPB	BDL	5
7100A-10	11	DINOSEB	PPB	BDL	5
7100A-11	12	DINOSEB	PPB	BDL	5
7100A-12	13	DINOSEB	PPB	BDL	5
7100A-13	14	DINOSEB	PPB	BDL	5
7100A-14	16	DINOSEB	PPB	BDL	5
7100A-15	FIELD BLANK	DINOSEB	PPB	BDL	5
7100A-1	WELL #1A	TOXAPHENE	PPM	BDL	0.25

Comments: PPM = Parts Per Million, mg/l. PPB = Parts Per Billion, ug/l. Metho
Refs: EPA 600/4-79-020, 3/83, SW-846, 3rd Edition, November 1986, and Fed Re
40 CFR Part 136, 7/1/90. BDL = Below Detection Limits.

Approved By : R. Michelotti

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: GROUNDWATER

Lab I.D.#: 91-7100A
Received Date: 10/01/91
Sampled By: D. GREEN

Single Tests continued Sample Date: 09/29/91 Time: N/S

Lab ID	Sample ID	Parameter	Units	Results	Detection Limit
7100A-2	2	TOXAPHENE	PPM	BDL	0.25
7100A-3	4	TOXAPHENE	PPM	BDL	0.25
7100A-4	5	TOXAPHENE	PPM	BDL	0.25
7100A-5	6	TOXAPHENE	PPM	BDL	0.25
7100A-6	7	TOXAPHENE	PPM	BDL	0.25
7100A-7	8	TOXAPHENE	PPM	BDL	0.25
7100A-8	9	TOXAPHENE	PPM	BDL	0.25
7100A-9	10	TOXAPHENE	PPM	BDL	0.25
7100A-10	11	TOXAPHENE	PPM	BDL	0.25
7100A-11	12	TOXAPHENE	PPM	BDL	0.25
7100A-12	13	TOXAPHENE	PPM	BDL	0.25
7100A-13	14	TOXAPHENE	PPM	BDL	0.25
7100A-14	16	TOXAPHENE	PPM	BDL	0.25
7100A-15	FIELD BLANK	TOXAPHENE	PPM	BDL	0.25

Is this detection limit (250 ppb) adequate NO!

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: GROUNDWATER

Lab I.D.#: 91-7100A-1
Received Date: 10/01/91
Sampled By: D. GREEN

Sample ID.: WELL #1A Sample Date: 09/29/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	4	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: WELL #1A Test Parameters continued on next page

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: GROUNDWATER

Lab I.D.#: 91-7100A-1
Received Date: 10/01/91
Sampled By: D. GREEN

Sample ID.: WELL #1A Sample Date: 09/29/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	11	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	106	
1,2-DICHLOROETHANE D4 *SURR*	% REC	100	
TOLUENE D8 *SURR*	% REC	100	

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: GROUNDWATER

Lab I.D.#: 91-7100A-2
Received Date: 10/01/91
Sampled By: D. GREEN

Sample ID.: 2 Sample Date: 09/29/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	12	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Test Parameters continued on next page

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PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: GROUNDWATER

Lab I.D.#: 91-7100A-2
Received Date: 10/01/91
Sampled By: D. GREEN

Sample ID.: 2 Sample Date: 09/29/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	2	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	98	
1,2-DICHLOROETHANE D4 *SURR*	% REC	102	
TOLUENE D8 *SURR*	% REC	104	

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PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: GROUNDWATER

Lab I.D.#: 91-7100A-3
Received Date: 10/01/91
Sampled By: D. GREEN

Sample ID.: 4 Sample Date: 09/29/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 4 Test Parameters continued on next page

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Client: CEDAR CHEMICAL

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: GROUNDWATER

Lab I.D.#: 91-7100A-3
Received Date: 10/01/91
Sampled By: D. GREEN

Sample ID.: 4 Sample Date: 09/29/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	102	
1,2-DICHLOROETHANE D4 *SURR*	% REC	102	
TOLUENE D8 *SURR*	% REC	98	

Analytical Technologies, Inc.
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PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: GROUNDWATER

Lab I.D.#: 91-7100A-4
Received Date: 10/01/91
Sampled By: D. GREEN

Sample ID.: 5 Sample Date: 09/29/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	2	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 5 Test Parameters continued on next page

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Client: CEDAR CHEMICAL

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: GROUNDWATER

Lab I.D.#: 91-7100A-4
Received Date: 10/01/91
Sampled By: D. GREEN

Sample ID.: 5 Sample Date: 09/29/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	6	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	10	4
BROMOFLUOROBENZENE *SURR*	% REC	102	
1,2-DICHLOROETHANE D4 *SURR*	% REC	98	
TOLUENE D8 *SURR*	% REC	106	

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Client: CEDAR CHEMICAL

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: GROUNDWATER

Lab I.D.#: 91-7100A-5
Received Date: 10/01/91
Sampled By: D. GREEN

Sample ID.: 6 Sample Date: 09/29/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 6 Test Parameters continued on next page

Analytical Technologies, Inc.
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PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: GROUNDWATER

Lab I.D.#: 91-7100A-5
Received Date: 10/01/91
Sampled By: D. GREEN

Sample ID.: 6 Sample Date: 09/29/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	3	1
TOTAL XYLENES	PPB	7	4
BROMOFLUOROBENZENE *SURR*	% REC	98	
1,2-DICHLOROETHANE D4 *SURR*	% REC	100	
TOLUENE D8 *SURR*	% REC	100	

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Client: CEDAR CHEMICAL

Lab I.D.#: 91-7100A-6
Received Date: 10/01/91
Sampled By: D. GREEN

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: GROUNDWATER

Sample ID.: 7 Sample Date: 09/29/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 7 Test Parameters continued on next page

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: GROUNDWATER

Lab I.D.#: 91-7100A-6
Received Date: 10/01/91
Sampled By: D. GREEN

Sample ID.: 7 Sample Date: 09/29/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	96	
1,2-DICHLOROETHANE D4 *SURR*	% REC	98	
TOLUENE D8 *SURR*	% REC	98	

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Client: CEDAR CHEMICAL

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: GROUNDWATER

Lab I.D.#: 91-7100A-7
Received Date: 10/01/91
Sampled By: D. GREEN

Sample ID.: 8 Sample Date: 09/29/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 8

Test Parameters continued on next page

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: GROUNDWATER

Lab I.D.#: 91-7100A-7
Received Date: 10/01/91
Sampled By: D. GREEN

Sample ID.: 8 Sample Date: 09/29/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	98	
1,2-DICHLOROETHANE D4 *SURR*	% REC	102	
TOLUENE D8 *SURR*	% REC	98	

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: GROUNDWATER

Lab I.D.#: 91-7100A-8
Received Date: 10/01/91
Sampled By: D. GREEN

Sample ID.: 9 Sample Date: 09/29/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 9

Test Parameters continued on next page

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: GROUNDWATER

Lab I.D.#: 91-7100A-8
Received Date: 10/01/91
Sampled By: D. GREEN

Sample ID.: 9 Sample Date: 09/29/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	102	
1,2-DICHLOROETHANE D4 *SURR*	% REC	100	
TOLUENE D8 *SURR*	% REC	100	

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: GROUNDWATER

Lab I.D.#: 91-7100A-9
Received Date: 10/01/91
Sampled By: D. GREEN

Sample ID.: 10 Sample Date: 09/29/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 10 Test Parameters continued on next page

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: GROUNDWATER

Lab I.D.#: 91-7100A-9
Received Date: 10/01/91
Sampled By: D. GREEN

Sample ID.: 10 Sample Date: 09/29/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	100	
1,2-DICHLOROETHANE D4 *SURR*	% REC	102	
TOLUENE D8 *SURR*	% REC	100	

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: GROUNDWATER

Lab I.D.#: 91-7100A-10
Received Date: 10/01/91
Sampled By: D. GREEN

Sample ID.: 11 Sample Date: 09/29/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID: 11 Test Parameters continued on next page

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: GROUNDWATER

Lab I.D.#: 91-7100A-10
Received Date: 10/01/91
Sampled By: D. GREEN

Sample ID.: 11 Sample Date: 09/29/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	20	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	102	
1,2-DICHLOROETHANE D4 *SURR*	% REC	100	
TOLUENE D8 *SURR*	% REC	102	

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: GROUNDWATER

Lab I.D.#: 91-7100A-11
Received Date: 10/01/91
Sampled By: D. GREEN

Sample ID.: 12 Sample Date: 09/29/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 12

Test Parameters continued on next page

Analytical Technologies,
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: GROUNDWATER

Lab I.D.#: 91-7100A-11
Received Date: 10/01/91
Sampled By: D. GREEN

Sample ID.: 12 Sample Date: 09/29/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	100	
1,2-DICHLOROETHANE D4 *SURR*	% REC	102	
TOLUENE D8 *SURR*	% REC	100	

Analytical Technologies, Inc.
11 EAST OLIVE ROAD
PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

Client: CEDAR CHEMICAL

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: GROUNDWATER

Lab I.D.#: 91-7100A-12
Received Date: 10/01/91
Sampled By: D. GREEN

Sample ID.: 13 Sample Date: 09/29/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	116	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 13

Test Parameters continued on next page

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: GROUNDWATER

Lab I.D.#: 91-7100A-12
Received Date: 10/01/91
Sampled By: D. GREEN

Sample ID.: 13 Sample Date: 09/29/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	102	
1,2-DICHLOROETHANE D4 *SURR*	% REC	100	
TOLUENE D8 *SURR*	% REC	100	

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: GROUNDWATER

Lab I.D.#: 91-7100A-13
Received Date: 10/01/91
Sampled By: D. GREEN

Sample ID.: 14 Sample Date: 09/29/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 14 Test Parameters continued on next page

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: GROUNDWATER

Lab I.D.#: 91-7100A-13
Received Date: 10/01/91
Sampled By: D. GREEN

Sample ID.: 14 Sample Date: 09/29/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	98	
1,2-DICHLOROETHANE D4 *SURR*	% REC	100	
TOLUENE D8 *SURR*	% REC	102	

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: GROUNDWATER

Lab I.D.#: 91-7100A-14
Received Date: 10/01/91
Sampled By: D. GREEN

Sample ID.: 16 Sample Date: 09/29/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 16 Test Parameters continued on next page

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: GROUNDWATER

Lab I.D.#: 91-7100A-14
Received Date: 10/01/91
Sampled By: D. GREEN

Sample ID.: 16 Sample Date: 09/29/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	102	
1,2-DICHLOROETHANE D4 *SURR*	% REC	102	
TOLUENE D8 *SURR*	% REC	100	

end of report

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

CEDAR CHEMICAL
P. O. BOX 3

VICKSBURG MS 39181-0000

Lab I.D.#:	91-7100B
Order Number:	P48981
Order Date:	10/01/91
Client:	02111
Sampled By:	D. GREEN
Sample Date:	09/29/91
Sample Time:	N/S

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: WATER

N/S = Not Submitted

R E S U L T S

reported on the following page(s)

Comments: PPB = Parts Per Billion, ug/l. BDL = Below Detection Limit.
Method Reference: SW-846, 3rd Edition, November 1986.

Approved By : C. Michelotti

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: WATER

Lab I.D.#: 91-7100B-1
Order Date: 10/01/91
Sampled By: D. GREEN

Sample ID.: TRIP BLANKS Sample Date: 09/29/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: TRIP BLANKS Test Parameters continued on next page

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: WATER

Lab I.D.#: 91-7100B-1
Order Date: 10/01/91
Sampled By: D. GREEN

Sample ID.: TRIP BLANKS Sample Date: 09/29/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	104	
1,2-DICHLOROETHANE D4 *SURR*	% REC	98	
TOLUENE D8 *SURR*	% REC	100	

end of report

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

CEDAR CHEMICAL
P. O. BOX 3

VICKSBURG MS 39181-0000

Lab I.D.#: 91-7100A
Order Number: P48980
Received Date: 10/01/91
Client: 02111
Sampled By: D. GREEN
Sample Date: 09/29/91
Sample Time: N/S

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: GROUNDWATER

N/S = Not Submitted

Lab ID	Sample ID	Parameter	Units	Results	Detection Limit
7100A-1	WELL #1A	ARSENIC	PPM	BDL	0.003
7100A-2	2	ARSENIC	PPM	BDL	0.003
7100A-3	4	ARSENIC	PPM	BDL	0.003
7100A-4	5	ARSENIC	PPM	0.012	0.003
7100A-5	6	ARSENIC	PPM	BDL	0.003
7100A-6	7	ARSENIC	PPM	0.011	0.003
7100A-7	8	ARSENIC	PPM	0.043	0.003
7100A-8	9	ARSENIC	PPM	BDL	0.003
7100A-9	10	ARSENIC	PPM	0.005	0.003
7100A-10	11	ARSENIC	PPM	BDL	0.003
7100A-11	12	ARSENIC	PPM	0.008	0.003
7100A-12	13	ARSENIC	PPM	BDL	0.003
7100A-13	14	ARSENIC	PPM	BDL	0.003
7100A-14	16	ARSENIC	PPM	0.005	0.003
7100A-15	FIELD BLANK	ARSENIC	PPM	BDL	0.003
7100A-1	WELL #1A	DINOSEB	PPB	163	5
7100A-2	2	DINOSEB	PPB	BDL	5
7100A-3	4	DINOSEB	PPB	BDL	5
7100A-4	5	DINOSEB	PPB	BDL	5
7100A-5	6	DINOSEB	PPB	BDL	5
7100A-6	7	DINOSEB	PPB	BDL	5
7100A-7	8	DINOSEB	PPB	BDL	5
7100A-8	9	DINOSEB	PPB	BDL	5
7100A-9	10	DINOSEB	PPB	BDL	5
7100A-10	11	DINOSEB	PPB	BDL	5
7100A-11	12	DINOSEB	PPB	BDL	5
7100A-12	13	DINOSEB	PPB	BDL	5
7100A-13	14	DINOSEB	PPB	BDL	5
7100A-14	16	DINOSEB	PPB	BDL	5
7100A-15	FIELD BLANK	DINOSEB	PPB	BDL	5
7100A-1	WELL #1A	TOXAPHENE	PPB	BDL	0.25

Comments: PPM = Parts Per Million, mg/l. PPB = Parts Per Billion, ug/l. Method Refs: EPA 600/4-79-020, 3/83, SW-846, 3rd Edition, November 1986, and Fed Reg 40 CFR Part 136, 7/1/90. BDL = Below Detection Limits.

Approved By : L. Michelotti

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: GROUNDWATER

Lab I.D.#: 91-7100A
Received Date: 10/01/91
Sampled By: D. GREEN

Single Tests continued Sample Date: 09/29/91 Time: N/S

Lab ID	Sample ID	Parameter	Units	Results	Detection Limit
7100A-2	2	TOXAPHENE	PPB	BDL	0.25
7100A-3	4	TOXAPHENE	PPB	BDL	0.25
7100A-4	5	TOXAPHENE	PPB	BDL	0.25
7100A-5	6	TOXAPHENE	PPB	25	0.25
7100A-6	7	TOXAPHENE	PPB	BDL	0.25
7100A-7	8	TOXAPHENE	PPB	BDL	0.25
7100A-8	9	TOXAPHENE	PPB	BDL	0.25
7100A-9	10	TOXAPHENE	PPB	BDL	0.25
7100A-10	11	TOXAPHENE	PPB	BDL	0.25
7100A-11	12	TOXAPHENE	PPB	BDL	0.25
7100A-12	13	TOXAPHENE	PPB	BDL	0.25
7100A-13	14	TOXAPHENE	PPB	BDL	0.25
7100A-14	16	TOXAPHENE	PPB	BDL	0.25
7100A-15	FIELD BLANK	TOXAPHENE	PPB	BDL	0.25

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: GROUNDWATER

Lab I.D.#: 91-7100A-1
Received Date: 10/01/91
Sampled By: D. GREEN

Sample ID.: WELL #1A Sample Date: 09/29/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	4	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: WELL #1A Test Parameters continued on next page

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: GROUNDWATER

Lab I.D.#: 91-7100A-1
Received Date: 10/01/91
Sampled By: D. GREEN

Sample ID.: WELL #1A Sample Date: 09/29/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	11	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	106	
1,2-DICHLOROETHANE D4 *SURR*	% REC	100	
TOLUENE D8 *SURR*	% REC	100	

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: GROUNDWATER

Lab I.D.#: 91-7100A-2
Received Date: 10/01/91
Sampled By: D. GREEN

Sample ID.: 2 Sample Date: 09/29/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	12	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 2

Test Parameters continued on next page

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: GROUNDWATER

Lab I.D.#: 91-7100A-2
Received Date: 10/01/91
Sampled By: D. GREEN

Sample ID.: 2 Sample Date: 09/29/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	2	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	98	
1,2-DICHLOROETHANE D4 *SURR*	% REC	102	
TOLUENE D8 *SURR*	% REC	104	

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: GROUNDWATER

Lab I.D.#: 91-7100A-3
Received Date: 10/01/91
Sampled By: D. GREEN

Sample ID.: 4 Sample Date: 09/29/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 4

Test Parameters continued on next page

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: GROUNDWATER

Lab I.D.#: 91-7100A-3
Received Date: 10/01/91
Sampled By: D. GREEN

Sample ID.: 4 Sample Date: 09/29/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	102	
1,2-DICHLOROETHANE D4 *SURR*	% REC	102	
TOLUENE D8 *SURR*	% REC	98	

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: GROUNDWATER

Lab I.D.#: 91-7100A-4
Received Date: 10/01/91
Sampled By: D. GREEN

Sample ID.: 5 Sample Date: 09/29/91 Time: N/S

/OL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
RBON DISULFIDE	PPB	BDL	1
RBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	[illegible]	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

mple ID.: 5

Test Parameters continued on next page

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: GROUNDWATER

Lab I.D.#: 91-7100A-4
Received Date: 10/01/91
Sampled By: D. GREEN

Sample ID.: 5 Sample Date: 09/29/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	6	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	10	4
BROMOFLUOROBENZENE *SURR*	% REC	102	
1,2-DICHLOROETHANE D4 *SURR*	% REC	98	
TOLUENE D8 *SURR*	% REC	106	

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: GROUNDWATER

Lab I.D.#: 91-7100A-5
Received Date: 10/01/91
Sampled By: D. GREEN

Sample ID.: 6 Sample Date: 09/29/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 6 Test Parameters continued on next page

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: GROUNDWATER

Lab I.D.#: 91-7100A-5
Received Date: 10/01/91
Sampled By: D. GREEN

Sample ID.: 6 Sample Date: 09/29/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	3	1
TOTAL XYLENES	PPB	7	4
BROMOFLUOROBENZENE *SURR*	% REC	98	
1,2-DICHLOROETHANE D4 *SURR*	% REC	100	
TOLUENE D8 *SURR*	% REC	100	

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: GROUNDWATER

Lab I.D.#: 91-7100A-6
Received Date: 10/01/91
Sampled By: D. GREEN

Sample ID.: 7 Sample Date: 09/29/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 7

Test Parameters continued on next page

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: GROUNDWATER

Lab I.D.#: 91-7100A-6
Received Date: 10/01/91
Sampled By: D. GREEN

Sample ID.: 7 Sample Date: 09/29/91 Time: N/S

/OL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	96	
1,2-DICHLOROETHANE D4 *SURR*	% REC	98	
TOLUENE D8 *SURR*	% REC	98	

Analytical Technologies, Inc.
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PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Lab I.D.#: 91-7100A-7
Received Date: 10/01/91
Sampled By: D. GREEN

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: GROUNDWATER

Sample ID.: 8 Sample Date: 09/29/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 8

Test Parameters continued on next page

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: GROUNDWATER

Lab I.D.#: 91-7100A-7
Received Date: 10/01/91
Sampled By: D. GREEN

Sample ID.: 8 Sample Date: 09/29/91 Time: N/S

/OL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
NYL CHLORIDE	PPB	BDL	1
TAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	98	
1,2-DICHLOROETHANE D4 *SURR*	% REC	102	
TOLUENE D8 *SURR*	% REC	98	

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: GROUNDWATER

Lab I.D.#: 91-7100A-8
Received Date: 10/01/91
Sampled By: D. GREEN

Sample ID.: 9 Sample Date: 09/29/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 9

Test Parameters continued on next page

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: GROUNDWATER

Lab I.D.#: 91-7100A-8
Received Date: 10/01/91
Sampled By: D. GREEN

Sample ID.: 9 Sample Date: 09/29/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	102	
1,2-DICHLOROETHANE D4 *SURR*	% REC	100	
TOLUENE D8 *SURR*	% REC	100	

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Lab I.D.#: 91-7100A-9
Received Date: 10/01/91
Sampled By: D. GREEN

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: GROUNDWATER

Sample ID.: 10 Sample Date: 09/29/91 Time: N/S

'OL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
RBON DISULFIDE	PPB	BDL	1
RBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

mple ID.: 10

Test Parameters continued on next page

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: GROUNDWATER

Lab I.D.#: 91-7100A-9
Received Date: 10/01/91
Sampled By: D. GREEN

Sample ID.: 10 Sample Date: 09/29/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	100	
1,2-DICHLOROETHANE D4 *SURR*	% REC	102	
TOLUENE D8 *SURR*	% REC	100	

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: GROUNDWATER

Lab I.D.#: 91-7100A-10
Received Date: 10/01/91
Sampled By: D. GREEN

Sample ID.: 11 Sample Date: 09/29/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 11

Test Parameters continued on next page

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: GROUNDWATER

Lab I.D.#: 91-7100A-10
Received Date: 10/01/91
Sampled By: D. GREEN

Sample ID.: 11 Sample Date: 09/29/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	20	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	102	
1,2-DICHLOROETHANE D4 *SURR*	% REC	100	
TOLUENE D8 *SURR*	% REC	102	

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: GROUNDWATER

Lab I.D.#: 91-7100A-11
Received Date: 10/01/91
Sampled By: D. GREEN

Sample ID.: 12 Sample Date: 09/29/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 12 Test Parameters continued on next page

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: GROUNDWATER

Lab I.D.#: 91-7100A-11
Received Date: 10/01/91
Sampled By: D. GREEN

Sample ID.: 12 Sample Date: 09/29/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	100	
1,2-DICHLOROETHANE D4 *SURR*	% REC	102	
TOLUENE D8 *SURR*	% REC	100	

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: GROUNDWATER

Lab I.D.#: 91-7100A-12
Received Date: 10/01/91
Sampled By: D. GREEN

Sample ID.: 13 Sample Date: 09/29/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	116	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 13 Test Parameters continued on next page

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: GROUNDWATER

Lab I.D.#: 91-7100A-12
Received Date: 10/01/91
Sampled By: D. GREEN

Sample ID.: 13 Sample Date: 09/29/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	102	
1,2-DICHLOROETHANE D4 *SURR*	% REC	100	
TOLUENE D8 *SURR*	% REC	100	

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: GROUNDWATER

Lab I.D.#: 91-7100A-13
Received Date: 10/01/91
Sampled By: D. GREEN

Sample ID.: 14 Sample Date: 09/29/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
CARBON DISULFIDE	PPB	BDL	1
CARBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

Sample ID.: 14 Test Parameters continued on next page

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: GROUNDWATER

Lab I.D.#: 91-7100A-13
Received Date: 10/01/91
Sampled By: D. GREEN

Sample ID.: 14 Sample Date: 09/29/91 Time: N/S

/OL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	98	
1,2-DICHLOROETHANE D4 *SURR*	% REC	100	
TOLUENE D8 *SURR*	% REC	102	

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: GROUNDWATER

Lab I.D.#: 91-7100A-14
Received Date: 10/01/91
Sampled By: D. GREEN

Sample ID.: 16 Sample Date: 09/29/91 Time: N/S

/OL/8240 VOLATILE METHOD 8240

Parameter	Units	Result	Detection Limit
ACETONE	PPB	BDL	10
ACROLEIN	PPB	BDL	100
ACRYLONITRILE	PPB	BDL	100
BENZENE	PPB	BDL	1
BROMODICHLOROMETHANE	PPB	BDL	1
BROMOFORM	PPB	BDL	2
BROMOMETHANE	PPB	BDL	1
2-BUTANONE (MEK)	PPB	BDL	3
RBON DISULFIDE	PPB	BDL	1
RBON TETRACHLORIDE	PPB	BDL	2
CHLOROBENZENE	PPB	BDL	1
CHLOROETHANE	PPB	BDL	1
2-CHLOROETHYL VINYL ETHER	PPB	BDL	5
CHLOROFORM	PPB	BDL	2
CHLOROMETHANE	PPB	BDL	2
CHLORODIBROMOMETHANE	PPB	BDL	5
DIBROMOMETHANE	PPB	BDL	5
DICHLORODIFLUOROMETHANE	PPB	BDL	5
1,1-DICHLOROETHANE	PPB	BDL	1
1,2-DICHLOROETHANE	PPB	BDL	2
1,1-DICHLOROETHENE	PPB	BDL	1
TOTAL 1,2-DICHLOROETHYLENE	PPB	BDL	5
1,2-DICHLOROPROPANE	PPB	BDL	2
CIS-1,3-DICHLOROPROPENE	PPB	BDL	1
TRANS-1,3-DICHLOROPROPENE	PPB	BDL	1
1,4-DICHLORO-2-BUTENE	PPB	BDL	5
ETHANOL	PPB	BDL	50
ETHYLBENZENE	PPB	BDL	1
ETHYL METHACRYLATE	PPB	BDL	5
2-HEXANONE	PPB	BDL	3
IODOMETHANE	PPB	BDL	5
METHYLENE CHLORIDE	PPB	BDL	3
4-METHYL-2-PENTANONE	PPB	BDL	3
STYRENE	PPB	BDL	2
1,1,2,2-TETRACHLOROETHANE	PPB	BDL	2

mple ID.: 16 Test Parameters continued on next page

Analytical Technologies, Inc.
11 EAST OLIVE ROAD PHONE (904) 474-1001
PENSACOLA, FLORIDA 32514

Client: CEDAR CHEMICAL

Project Number: PO 01-090160
Project Name: 3RD QUARTER '91 G-WATER
Sample Site: CEDAR CHEMICAL
Sample Type: GROUNDWATER

Lab I.D.#: 91-7100A-14
Received Date: 10/01/91
Sampled By: D. GREEN

Sample ID.: 16 Sample Date: 09/29/91 Time: N/S

VOL/8240 VOLATILE METHOD 8240 continued

Parameter	Units	Result	Detection Limit
TETRACHLOROETHENE	PPB	BDL	1
TOLUENE	PPB	BDL	5
1,1,1-TRICHLOROETHANE	PPB	BDL	5
1,1,2-TRICHLOROETHANE	PPB	BDL	2
TRICHLOROETHENE	PPB	BDL	1
TRICHLOROFLUOROMETHANE	PPB	BDL	1
1,2,3-TRICHLOROPROPANE	PPB	BDL	5
VINYL ACETATE	PPB	BDL	2
VINYL CHLORIDE	PPB	BDL	1
TOTAL XYLENES	PPB	BDL	4
BROMOFLUOROBENZENE *SURR*	% REC	102	
1,2-DICHLOROETHANE D4 *SURR*	% REC	102	
TOLUENE D8 *SURR*	% REC	100	

end of report

CEDAR CHEMICAL CORPORATION

24th Floor • 5100 Poplar Avenue • Memphis, TN 38137 • 901-685-5348

REPLY TO: P.O. BOX 3
VICKSBURG, MS 39181
(601) 636-1231

JUL 8

CERTIFIED MAIL
RETURN RECEIPT REQUESTED
P 413 276 220

Mr. Trey Fleming
Environmental Engineer
Mississippi Department of Environmental Quality
Bureau of Pollution Control
2380 Highway 80 West
Jackson, MS 39204

July 3, 1991

Re: Cedar Chemical Corporation
Groundwater Monitoring, 2nd Quarter, 1991

Dear Mr. Fleming:

Please find enclosed copies of the results of the 2nd Quarter Groundwater Monitoring analyses required by DEQ Commission Order 1253 87. As requested by Mr. Toby Cook in his letter of April 22, 1991, the chemicals chloroform, carbon tetrachloride, methyl ethyl ketone and trichloroethylene (trichloroethene) were added to the list of analyses to be performed.

Although not requested, methyl chloride was also analyzed and included in this report. Water well sample "3B" is a blind, b... sample submitted to our contractor laboratory as a routine sam...

If there are any questions concerning this matter, please contact me.

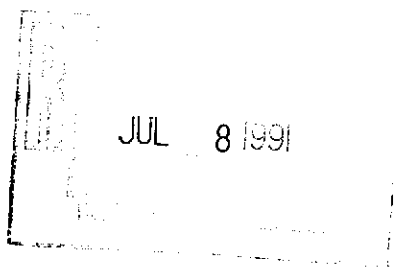
Sincerely,

Steven T. Boswell

Steven T. Boswell
Director of Env. Affairs

STB: pc

xc: Mr. Ahlers
Mr. Madsen



Cedar Chemical Corporation
Groundwater Sampling
June 8, 1991

Well No.	Water Elevation, MSL
1A	107.52'
2	100.9'
4	108.09'
5	86.82'
6	88.92'
7	93.46'
8	103.67'
9	112.11'
10	109.01'
11	97.08'
12	110.24'
13	110.25'
14	107.23'
16	109.94'

EPS Analytical Services
5360 I-55 North • Jackson, MS 39211 • Telephone (601) 956-1400 • FAX (601) 956-2365

LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 06/20/91 COLLECTED BY: CLT-DB REPORT NO.: 20331 PAGE NO.: 1
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS RECEIPT DATE: 06/14/91 PROJECT NO.:

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT	ANALYSIS INFORMATION: ANALYST	DATE	TIME	BATCH QUALITY CONTROL: SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		26373.00						
Arsenic, Total	mg/l	<0.003	BSC	06/18/91	11:00	0.200	102	0
2-nitrobutylphenol	ug/l	297	KLG	06/17/91	09:08	336	142	0
Toxaphene	ug/l	<0.48	SCP	06/17/91	13:00	50	123	0
Chloroform	ug/l	<0.1	SCP	06/26/91	09:17	20	72	0
Methyl Ethyl Ketone	ug/l	<10	KLG	06/20/91	08:30	NA	NA	0
Methylene Chloride	ug/l	<0.1	SCP	06/26/91	09:17	20	72	0
Dichloroethene	ug/l	<0.1	SCP	06/26/91	09:17	20	72	0
Methyl Chloride	ug/l	<0.1	SCP	06/26/91	09:17	20	72	0
Carbon Tetrachloride	ug/l	<0.1	SCP	06/26/91	09:17	20	72	0

SUPPLEMENTARY INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1986 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

JUL 8 1991

SAMPLE DESCRIPTION: 26373.00 WELL WATER SAMPLE 1A

COLLECTION DATE/TIME: 06/13/91 06/13/91 09:30

CERTIFICATION:

Quality Assurance and Quality Control

Ray Hudnall
Analytical Services

This report applies only to the sample(s) analyzed. The liability of the laboratory is limited to the amount paid for the report by the client. The client assumes all liability for the further distribution of this report or its content and by making such distribution agrees to hold the laboratory harmless against all claims of persons resulting from the contents hereof.

EPS Analytical Services
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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEMATE: 06/20/91
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS

COLLECTED BY: CLT-06 REPORT NO.: 20332 PAGE NO.: 1
RECEIPT DATE: 06/14/91 PROJECT NO.:

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT	ANALYSIS INFORMATION: ANALYST	DATE	TIME	BATCH QUALITY CONTRO: SPIKE VALUE	% RECOVERY	RELATIVE DEVIATIO
TEST RESULTS FOR SAMPLE LOG NUMBER:		26374.00						
Arsenic, Total	mg/l	<0.003	BSC	06/18/91	11:00	0.200	102	0
Dinitrobutylphenol	ug/l	<60	KLG	06/17/91	09:08	336	142	0
Toxaphene	ug/l	<0.48	SCP	06/17/91	13:00	50	123	0
Chloroform	ug/l	<0.1	SCP	06/26/91	09:17	20	72	0
Methyl Ethyl Ketone	ug/l	<10	KLG	06/20/91	08:30	NA	NA	0
Methylene Chloride	ug/l	<0.1	SCP	06/26/91	09:17	20	72	0
Trichloroethene	ug/l	<0.1	SCP	06/26/91	09:17	20	72	0
Methyl Chloride	ug/l	<0.1	SCP	06/26/91	09:17	20	72	0
Carbon Tetrachloride	ug/l	<0.1	SCP	06/26/91	09:17	20	72	0

SUPPLEMENTARY INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1986 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION:
26374.00 WELL WATER SAMPLE #2

COLLECTION DATE/TIME:
06/13/91 06/13/91 09:00

CERTIFICATION:

Quality Assurance and Quality Control

Ray Hudnall
Analytical Services

This report applies only to the sample(s) analyzed. The liability of the laboratory is limited to the amount paid for the report by the client. The client assumes all liability for the further distribution of this report or its content and in making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEMATE: 06/28/91
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS
COLLECTED BY: CLT-DB RECEIPT DATE: 06/14/91
REPORT NO.: 20333 PROJECT NO.:
PAGE NO.: 1

ANALYTE	UNITS	LABORATORY RESULTS	ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
		REGULATORY LIMIT	ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		26375.00						
Arsenic, Total	mg/l	<0.003	BSC	06/18/91	11:00	0.200	102	0
Di[illegible]obutylphenol	ug/l	<30	KLG	06/17/91	09:08	336	142	0
Toxaphene	ug/l	<0.24	SCP	06/17/91	13:00	50	123	0
Chloroform	ug/l	<0.1	SCP	06/26/91	09:17	20	72	0
Methyl Ethyl Ketone	ug/l	<10	KLG	06/20/91	08:30	NA	NA	0
Methylene Chloride	ug/l	<0.1	SCP	06/26/91	09:17	20	72	0
Trichloroethene	ug/l	<0.1	SCP	06/26/91	09:17	20	72	0
Methyl Chloride	ug/l	<0.1	SCP	06/26/91	09:17	20	72	0
Carbon Tetrachloride	ug/l	<0.1	SCP	06/26/91	09:17	20	72	0

SUPPLEMENTARY INFORMATION:
[illegible]lysis conducted in accordance with 40 CFR Part 136,1986 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION:
26375.00 WELL WATER SAMPLE #3D Blank Sample STB 7/3/91

COLLECTION DATE/TIME:
06/13/91 06/13/91 UNK

CERTIFICATION:

Quality Assurance and Quality Control

Ray Hudnall
Analytical Services

This report applies only to the sample(s) analyzed. The liability of the laboratory is limited to the amount paid for the report by the client. The client assumes all liability for the further distribution of this report or its content and [illegible]ing such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

EPS Analytical Services
5360 I-55 North • Jackson, MS 39211 • Telephone (601) 956-1400 • FAX (601) 956-2365

LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM DATE: 06/28/91
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS
COLLECTED BY: CLT-DG RECEIPT DATE: 06/14/91
REPORT NO.: 20334 PROJECT NO.:
PAGE NO.: 1

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTR		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		26376.00									
Arsenic, Total	mg/l	<0.003				BSC	06/18/91	11:00	0.200	102	0
Dinitrobutylphenol	ug/l	<30				KLG	06/17/91	09:08	336	142	0
Toxaphene	ug/l	<0.24				SCP	06/17/91	13:00	50	123	0
Chloroform	ug/l	<0.1				SCP	06/26/91	09:17	20	72	0
Methyl Ethyl Ketone	ug/l	<10				KLG	06/20/91	08:30	NA	NA	0
Methylene Chloride	ug/l	<0.1				SCP	06/26/91	09:17	20	72	0
Trichloroethene	ug/l	<0.1				SCP	06/26/91	09:17	20	72	0
Methyl Chloride	ug/l	<0.1				SCP	06/26/91	09:17	20	72	0
Carbon Tetrachloride	ug/l	<0.1				SCP	06/26/91	09:17	20	72	0

SUPPLEMENTARY INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1986 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION:
26376.00 WELL WATER SAMPLE #4

COLLECTION DATE/TIME:
06/13/91 06/13/91 09:55

CERTIFICATION:

Quality Assurance and Quality Control

Ray Hudnall
Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEMDATE: 06/20/91
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS
COLLECTED BY: CLT-06 REPORT NO.: 20335 PAGE NO.:
RECEIPT DATE: 06/14/91 PROJECT NO.:

ANALYTE	UNITS	LABORATORY RESULTS	ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
		REGULATORY LIMIT	ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		26377.00						
Arsenic, Total	mg/l	<0.003	BSC	06/18/91	11:00	0.200	102	0
Dinitrobutylphenol	ug/l	<30	KLG	06/17/91	09:08	336	142	0
Toxaphene	ug/l	<0.24	SCP	06/17/91	13:00	50	123	0
Chloroform	ug/l	<0.1	SCP	06/26/91	09:17	20	72	0
Methyl Ethyl Ketone	ug/l	<10	KLG	06/20/91	08:30	NA	NA	0
Methylene Chloride	ug/l	<0.1	SCP	06/26/91	09:17	20	72	0
Trichloroethene	ug/l	<0.1	SCP	06/26/91	09:17	20	72	0
Methyl Chloride	ug/l	<0.1	SCP	06/26/91	09:17	20	72	0
Carbon Tetrachloride	ug/l	<0.1	SCP	06/26/91	09:17	20	72	0

SUPPLEMENTARY INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1986 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION:	COLLECTION DATE/TIME:
26377.00 WELL WATER SAMPLE #5	06/13/91 06/13/91 UNK

CERTIFICATION:

Quality Assurance and Quality Control

Ray Hudnall
Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE
LOCATION: VICKSBURG, MS 39180
DATE: 06/28/91
PROJECT LOCATION: VICKSBURG, MS
COLLECTED BY: CLT-DB
RECEIPT DATE: 06/14/91
REPORT NO.: 20336
PROJECT NO.:
PAGE NO.: 1

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		26378.00									
Arsenic, Total	mg/l	<0.003				BSC	06/18/91	11:00	0.200	102	0
Dinitrobutylphenol	ug/l	<30				KLG	06/17/91	09:08	336	142	0
Toxaphene	ug/l	<0.24				SCP	06/17/91	13:00	50	123	0
Chloroform	ug/l	<0.1				SCP	06/26/91	09:17	20	72	0
Methyl Ethyl Ketone	ug/l	<10				KLG	06/20/91	08:30	NA	NA	0
Methylene Chloride	ug/l	<0.1				SCP	06/26/91	09:17	20	72	0
Trichloroethene	ug/l	<0.1				SCP	06/26/91	09:17	20	72	0
Methyl Chloride	ug/l	<0.1				SCP	06/26/91	09:17	20	72	0
Carbon Tetrachloride	ug/l	<0.1				SCP	06/26/91	09:17	20	72	0

SUPPLEMENTARY INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1986 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION:
26378.00 WELL WATER SAMPLE #6

COLLECTION DATE/TIME:
06/13/91 06/13/91 UNK

CERTIFICATION:

Quality Assurance and Quality Control

Ray Hudnall
Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEMATE: 06/20/91 COLLECTED BY: CLT-DB REPORT NO.: 20337 PAGE NO.:
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS RECEIPT DATE: 06/14/91 PROJECT NO.:

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT	ANALYSIS INFORMATION			BATCH QUALITY CONT		
			ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELA DEVI
TEST RESULTS FOR SAMPLE LOG NUMBER:		26379.00						
Arsenic, Total	mg/l	0.010	BSC	06/18/91	11:00	0.200	102	0
Dinitrobutylphenol	ug/l	<30	KLG	06/17/91	09:08	336	142	0
Toxaphene	ug/l	<0.24	SCP	06/17/91	13:00	50	123	0
Chloroform	ug/l	<0.1	SCP	06/26/91	09:17	20	72	0
Methyl Ethyl Ketone	ug/l	<10	KLG	06/20/91	08:30	NA	NA	0
Methylene Chloride	ug/l	<0.1	SCP	06/26/91	09:17	20	72	0
Trichloroethene	ug/l	<0.1	SCP	06/26/91	09:17	20	72	0
Methyl Chloride	ug/l	<0.1	SCP	06/26/91	09:17	20	72	0
Carbon Tetrachloride	ug/l	<0.1	SCP	06/26/91	09:17	20	72	0

SUPPLEMENTARY INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1986 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION:
26379.00 WELL WATER SAMPLE #7

COLLECTION DATE/TIME:
06/13/91 06/13/91 UNK

CERTIFICATION:

Quality Assurance and Quality Control

Ray Hudnall
Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM DATE: 06/28/91
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS
COLLECTED BY: CLT-DG REPORT NO.: 20338 PAGE NO.:
RECEIPT DATE: 06/14/91 PROJECT NO.:

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTRO		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE DEVIATIO
TEST RESULTS FOR SAMPLE LOG NUMBER:		26380.00									
Arsenic, Total	mg/l	0.049				BSC	06/18/91	11:00	0.200	102	0
Dinitrobutylphenol	ug/l	<30				KLG	06/17/91	09:08	336	142	0
Toxaphene	ug/l	<0.24				SCP	06/17/91	13:00	50	123	0
Chloroform	ug/l	<0.1				SCP	06/26/91	09:17	20	72	0
Methyl Ethyl Ketone	ug/l	<10				KLG	06/20/91	08:30	NA	NA	0
Methylene Chloride	ug/l	<0.1				SCP	06/26/91	09:17	20	72	0
Trichloroethene	ug/l	<0.1				SCP	06/26/91	09:17	20	72	0
Methyl Chloride	ug/l	<0.1				SCP	06/26/91	09:17	20	72	0
Carbon Tetrachloride	ug/l	<0.1				SCP	06/26/91	09:17	20	72	0

SUPPLEMENTARY INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1986 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION:
26380.00 WELL WATER SAMPLE #8

COLLECTION DATE/TIME:
06/13/91 06/13/91 09:05

CERTIFICATION:

Quality Assurance and Quality Control

Ray Hudnall
Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM
LOCATION: VICKSBURG, MS 39180
DATE: 06/28/91
PROJECT LOCATION: VICKSBURG, MS
COLLECTED BY: CLT-06
RECEIPT DATE: 06/14/91
REPORT NO.: 20339
PROJECT NO.:
PAGE NO.:

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT	ANALYSIS INFORMATION: ANALYST	DATE	TIME	BATCH QUALITY CONT: SPIKE VALUE	% RECOVERY	RELA DEVI
TEST RESULTS FOR SAMPLE LOG NUMBER:		26381.00						
Arsenic, Total	mg/l	<0.003	BSC	06/18/91	11:00	0.200	102	0
[illegible]robutylphenol	ug/l	<30	KLG	06/17/91	09:08	336	142	0
Toxaphene	ug/l	<0.24	SCP	06/17/91	13:00	50	123	0
Chloroform	ug/l	<0.1	SCP	06/26/91	09:17	20	72	0
Methyl Ethyl Ketone	ug/l	<10	KLG	06/20/91	08:30	NA	NA	0
Methylene Chloride	ug/l	<0.1	SCP	06/26/91	09:17	20	72	0
Trichloroethene	ug/l	<0.1	SCP	06/26/91	09:17	20	72	0
Methyl Chloride	ug/l	<0.1	SCP	06/26/91	09:17	20	72	0
Carbon Tetrachloride	ug/l	<0.1	SCP	06/26/91	09:17	20	72	0

SUPPLEMENTARY INFORMATION:
[illegible]nalysis conducted in accordance with 40 CFR Part 136,1986 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION:
26381.00 WELL WATER SAMPLE #9

COLLECTION DATE/TIME:
06/13/91 06/13/91 09:40

CERTIFICATION:

Quality Assurance and Quality Control

Ray Hudnall
Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEMATE: 06/28/91 COLLECTED BY: CLT-DG REPORT NO.: 20340 PAGE NO.: 1
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS RECEIPT DATE: 06/14/91 PROJECT NO.:

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		26382.00									
Arsenic, Total	ug/l	0.009				BSC	06/18/91	11:00	0.200	102	0
Dibromobutylphenol	ug/l	<30				KLG	06/17/91	09:08	336	142	0
Toxaphene	ug/l	<0.24				SCP	06/17/91	13:00	50	123	0
Chloroform	ug/l	<0.1				SCP	06/26/91	09:17	20	72	0
Methyl Ethyl Ketone	ug/l	<10				KLG	06/20/91	08:30	NA	NA	0
Methylene Chloride	ug/l	<0.1				SCP	06/26/91	09:17	20	72	0
Trichloroethene	ug/l	<0.1				SCP	06/26/91	09:17	20	72	0
Methyl Chloride	ug/l	<0.1				SCP	06/26/91	09:17	20	72	0
Carbon Tetrachloride	ug/l	<0.1				SCP	06/26/91	09:17	20	72	0

SUPPLEMENTARY INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1986 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION:	COLLECTION DATE/TIME:	CERTIFICATION:
26382.00 WELL WATER SAMPLE #10	06/13/91 06/13/91 09:15	Quality Assurance and Quality Control Ray Hudnall Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEMDATE: 06/28/91 COLLECTED BY: CLT-DG REPORT NO.: 20341 PAGE NO.: 1
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS RECEIPT DATE: 06/14/91 PROJECT NO.:

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT	ANALYSIS INFORMATION			BATCH QUALITY CONT		
			ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELA DEVI
TEST RESULTS FOR SAMPLE LOG NUMBER:		26383.00						
Arsenic, Total	mg/l	<0.003	BSC	06/18/91	11:00	0.200	102	0
Dinitrobutylphenol	ug/l	<30	KLG	06/17/91	09:08	336	142	0
Toxaphene	ug/l	<0.24	SCP	06/17/91	13:00	50	123	0
Chloroform	ug/l	<0.1	SCP	06/26/91	09:17	20	72	0
Methyl Ethyl Ketone	ug/l	<10	KLG	06/20/91	08:30	NA	NA	0
Methylene Chloride	ug/l	<0.1	SCP	06/26/91	09:17	20	72	0
Trichloroethene	ug/l	<0.1	SCP	06/26/91	09:17	20	72	0
Methyl Chloride	ug/l	<0.1	SCP	06/26/91	09:17	20	72	0
Carbon Tetrachloride	ug/l	<0.1	SCP	06/26/91	09:17	20	72	0

SUPPLEMENTARY INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1986 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION: COLLECTION DATE/TIME:
26383.00 WELL WATER SAMPLE #11 06/13/91 06/13/91 09:25

CERTIFICATION:

Quality Assurance and Quality Control

Ray Hudnall
Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM
LOCATION: VICKSBURG, MS 39180
DATE: 06/20/91
PROJECT LOCATION: VICKSBURG, MS
COLLECTED BY: CLT-DB
RECEIPT DATE: 06/14/91
REPORT NO.: 20342
PROJECT NO.:
PAGE NO.: 1

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT	ANALYSIS INFORMATION: ANALYST	DATE	TIME	BATCH QUALITY CONTROL: SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		26384.00						
Arsenic, Total	mg/l	<0.003	BSC	06/18/91	11:00	0.200	102	0
Dinitrobutylphenol	ug/l	<30	KLG	06/17/91	09:08	336	142	0
Toxaphene	ug/l	<0.24	SCP	06/17/91	13:00	50	123	0
Chloroform	ug/l	<0.1	SCP	06/26/91	09:17	20	72	0
Methyl Ethyl Ketone	ug/l	<10	KLG	06/20/91	08:30	NA	NA	0
Methylene Chloride	ug/l	<0.1	SCP	06/26/91	09:17	20	72	0
Trichloroethene	ug/l	<0.1	SCP	06/26/91	09:17	20	72	0
Methyl Chloride	ug/l	<0.1	SCP	06/26/91	09:17	20	72	0
Carbon Tetrachloride	ug/l	<0.1	SCP	06/26/91	09:17	20	72	0

SUPPLEMENTARY INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1986 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION:
26384.00 WELL WATER SAMPLE #12

COLLECTION DATE/TIME:
06/13/91 06/13/91 09:10

CERTIFICATION:

Quality Assurance and Quality Control

Ray Hudnall
Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM DATE: 06/28/91
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS
COLLECTED BY: CLT-DG RECEIPT DATE: 06/14/91
REPORT NO.: 20343 PROJECT NO.:
PAGE NO.: 1

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		26385.00									
Arsenic, Total	ug/l	0.007				BSC	06/18/91	11:00	0.200	102	0
Dinitrobutylphenol	ug/l	<30				KLG	06/17/91	09:08	336	142	0
Toxaphene	ug/l	<0.24				SCP	06/17/91	13:00	50	123	0
Chloroform	ug/l	<0.1				SCP	06/26/91	09:17	20	72	0
Methyl Ethyl Ketone	ug/l	<10				KLG	06/20/91	08:30	NA	NA	0
Methylene Chloride	ug/l	<0.1				SCP	06/26/91	09:17	20	72	0
Trichloroethene	ug/l	<0.1				SCP	06/26/91	09:17	20	72	0
Methyl Chloride	ug/l	<0.1				SCP	06/26/91	09:17	20	72	0
Carbon Tetrachloride	ug/l	<0.1				SCP	06/26/91	09:17	20	72	0

SUPPLEMENTARY INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1986 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION:
26385.00 WELL WATER SAMPLE #13

COLLECTION DATE/TIME:
06/13/91 06/13/91 09:45

CERTIFICATION:

Quality Assurance and Quality Control

Ray Hudnall
Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEMATE: 06/28/91 COLLECTED BY: CLT-DG REPORT NO.: 20344 PAGE NO.: 1
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS RECEIPT DATE: 06/14/91 PROJECT NO.:

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONT.		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		26386.00									
Arsenic, Total	mg/l	0.003				BSC	06/18/91	11:00	0.200	102	0
Dinitrobutylphenol	ug/l	<30				KLG	06/17/91	09:08	336	142	0
Toxaphene	ug/l	<0.24				SCP	06/17/91	13:00	50	123	0
Chloroform	ug/l	<0.1				SCP	06/26/91	09:17	20	72	0
Methyl Ethyl Ketone	ug/l	<10				KLG	06/20/91	08:30	NA	NA	0
Methylene Chloride	ug/l	<0.1				SCP	06/26/91	09:17	20	72	0
Trichloroethene	ug/l	<0.1				SCP	06/26/91	09:17	20	72	0
Methyl Chloride	ug/l	<0.1				SCP	06/26/91	09:17	20	72	0
Carbon Tetrachloride	ug/l	<0.1				SCP	06/26/91	09:17	20	72	0

SUPPLEMENTARY INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1986 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION:
26386.00 WELL WATER SAMPLE #14

COLLECTION DATE/TIME:
06/13/91 06/13/91 09:35

CERTIFICATION:

Quality Assurance and Quality Control

Ray Hudnall
Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM DATE: 06/20/91 COLLECTED BY: CLT-06 REPORT NO.: 20345 PAGE NO.:
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS RECEIPT DATE: 06/14/91 PROJECT NO.:

ANALYTE	UNITS	LABORATORY RESULTS				ANALYSIS INFORMATION			BATCH QUALITY CONT		
		REGULATORY LIMIT				ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		14387.00									
Arsenic, Total	mg/l	<0.003				BSC	06/18/91	11:00	0.200	102	0
Dinitrobutylphenol	ug/l	<30				KLB	06/17/91	09:08	336	142	0
Toxaphene	ug/l	<0.24				SCP	06/17/91	13:00	50	123	0
Chloroform	ug/l	<0.1				SCP	06/26/91	09:17	20	72	0
Methyl Ethyl Ketone	ug/l	<10				KLB	06/20/91	08:30	NA	NA	0
Methylene Chloride	ug/l	<0.1				SCP	06/26/91	09:17	20	72	0
Trichloroethene	ug/l	<0.1				SCP	06/26/91	09:17	20	72	0
Methyl Chloride	ug/l	<0.1				SCP	06/26/91	09:17	20	72	0
Carbon Tetrachloride	ug/l	<0.1				SCP	06/26/91	09:17	20	72	0

SUPPLEMENTARY INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1986 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION:
14387.00 WELL WATER SAMPLE #16

COLLECTION DATE/TIME:
06/13/91 06/13/91 09:20

CERTIFICATION:

Quality Assurance and Quality Control

Ray Hudnall
Analytical Services

This report applies only to the sample(s) analyzed. The liability of the laboratory is limited to the amount paid for the report by the client. The client assumes all liability for the further distribution of this report or its content and indemnifying such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

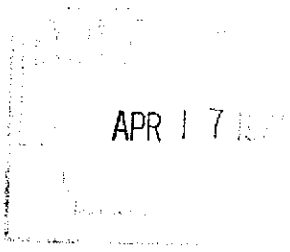
CEDAR CHEMICAL CORPORATION

24th Floor • 5100 Poplar Avenue • Memphis, TN 38137 • 901-685-5348

REPLY TO: P.O. BOX 3
VICKSBURG, MS 39181
(601) 636-1231

HAND DELIVERED

Mr. Trey Fleming
Environmental Engineer
Mississippi Department of Environmental Quality
Bureau of Pollution Control
2380 Highway 80 West
Jackson, MS 39204



April 17, 1991

Re: Cedar Chemical Corporation
Groundwater Monitoring, 1st Quarter, 1991

Dear Mr. Fleming:

Please find enclosed copies of the results of the 1st Quarter Groundwater Monitoring analyses required by DEQ Commission Order 1263-87.

If there are any questions concerning this matter, please contact me.

Sincerely,

Steven T. Boswell

Steven T. Boswell
Director of Env. Affairs

STB: pc

xc: Mr. Ahlers
Mr. Madsen

Cedar Chemical Corporation
Groundwater Sampling
March 25, 1991

Well No.	Water Elevation, MSL
1A	106.49'
2	98.55'
4	107.19'
5	86.26'
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
10	109.49'
11	96.03'
12	109.42'
13	109.49'
14	106.19'
16	109.05'

EPS Analytical Services
5360 I-55 North • Jackson, MS 39211 • Telephone (601) 956-1400 • FAX (601) 956-2365

LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 04/05/91 COLLECTED BY: CLIENT REPORT NO.: 19039 PAGE NO.: 1
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS. RECEIPT DATE: 03/26/91 PROJECT NO.:

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT	ANALYSIS INFORMATION: ANALYST	DATE	TIME	BATCH QUALITY CONTROL: SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		24685.00						
Arsenic, Total	mg/l	<0.003	BSC	04/02/91	16:00	0.200	102	0
Dinitrobutylphenol	ug/l	177	KLG	03/27/91	09:30	250	65	3
Methylene Chloride	ug/l	<0.1	SCP	03/27/91	08:07	20	87	0
Toxaphene	ug/l	<0.24	SCP	03/27/91	08:30	5.0	92	0

SUPPLEMENTARY INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION: 24685.00 GROUNDWATER MONITORING WELL # 1A

COLLECTION DATE/TIME: 03/25/91 03/25/91 UNK

CERTIFICATION:

Sandra C Pittman
Quality Assurance and Quality Control

Ray Hudnall
Analytical Services

This report applies only to the sample(s) analyzed. The liability of the laboratory is limited to the amount paid for the report by the client. The client assumes all liability for the further distribution of this report or its content and by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE
LOCATION: VICKSBURG, MS 39180
DATE: 04/05/91
PROJECT LOCATION: VICKSBURG, MS.
COLLECTED BY: CLIENT
RECEIPT DATE: 03/26/91
REPORT NO.: 19040
PROJECT NO.:
PAGE NO.: 1

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT	ANALYSIS INFORMATION: ANALYST	DATE	TIME	BATCH QUALITY CONTROL: SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		24686.00						
Arsenic, Total	mg/l	<0.003	BSC	04/02/91	16:00	0.200	102	0
Dinitrobutylphenol	ug/l	<30	KLG	03/27/91	09:30	250	65	3
Methylene Chloride	ug/l	<0.1	SCP	03/27/91	08:07	20	87	0
Toxaphene	ug/l	<0.48	SCP	03/27/91	08:30	5.0	92	0

SUPPLEMENTARY INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:
24686.00 GROUNDWATER MONITORING WELL # 2

COLLECTION DATE/TIME:
03/25/91 03/25/91 UNK

CERTIFICATION:
Sandra C. Pittman
Quality Assurance and Quality Control
Ray Hudnall
Analytical Services

This report applies only to the sample(s) analyzed. The liability of the laborato[illegible]limited to the amount paid for the report by the client. The client assumes all liability for the further distribution of this report or its content and by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

EPS Analytical Services
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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 04/05/91
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS.
COLLECTED BY: CLIENT RECEIPT DATE: 03/26/91
REPORT NO.: 19041 PROJECT NO.:
PAGE NO.: 1

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT	ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
			ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		24687.00						
Arsenic, Total	mg/l	<0.003	BSC	04/02/91	16:00	0.200	102	0
Dinitrobutylphenol	ug/l	<30	KLG	03/27/91	09:30	250	65	3
Methylene Chloride	ug/l	<0.1	SCP	03/27/91	08:07	20	87	0
Toxaphene	ug/l	<0.24	SCP	03/27/91	08:30	5.0	92	0

SUPPLEMENTARY INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:
24687.00 GROUNDWATER MONITORING WELL # 4

COLLECTION DATE/TIME:
03/25/91 03/25/91 UNK

CERTIFICATION:
Sandra C. Tillman
Quality Assurance and Quality Control
Ray Hudnall
Analytical Services

This report applies only to the sample(s) analyzed. The liability of the laboratory is limited to the amount paid for the report by the client. The client assumes all liability for the further distribution of this report or its content and by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

EPS Analytical Services
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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM DATE: 04/05/91 COLLECTED BY: CLIENT REPORT NO.: 19042 PAGE NO.: 1
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS. RECEIPT DATE: 03/26/91 PROJECT NO.:

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		24688.00									
Arsenic, Total	mg/l	<0.003				BSC	04/02/91	16:00	0.200	102	0
Dinitrobutylphenol	ug/l	<30				KLG	03/27/91	09:30	250	65	3
Methylene Chloride	ug/l	<0.1				SCP	03/27/91	08:07	20	87	0
Toxaphene	ug/l	<0.24				SCP	03/27/91	08:30	5.0	92	0

SUPPLEMENTARY INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:
24688.00 GROUNDWATER MONITORING WELL # 5

COLLECTION DATE/TIME:
03/25/91 03/25/91 UNK

CERTIFICATION:

Sandra C. Pettyjan
Quality Assurance and Quality Control

Ray Hudnall
Analytical Services

This report applies only to the sample(s) analyzed. The liability of the labo[illegible] is limited to the amount paid for the report by the client. The client assumes all liability for the further distribution of this report or its content and by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

E P S Analytical Services
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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHDATE: 04/05/91 COLLECTED BY: CLIENT REPORT NO.: 19043 PAGE NO.: 1
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS. RECEIPT DATE: 03/26/91 PROJECT NO.:

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		24689.00									
Arsenic, Total	mg/l	<0.003				BSC	04/02/91	16:00	0.200	102	0
Dinitrobutylphenol	ug/l	<30				KLG	03/27/91	09:30	250	65	3
Methylene Chloride	ug/l	<0.1				SCP	03/27/91	08:07	20	87	0
Toxaphene	ug/l	<0.24				SCP	03/27/91	08:30	5.0	92	0

SUPPLEMENTARY INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:
24689.00 GROUNDWATER MONITORING WELL # 6

COLLECTION DATE/TIME:
03/25/91 03/25/91 UNK

CERTIFICATION:

Sandra C. Littman
Quality Assurance and Quality Control

Ray Hudnall
Analytical Services

This report applies only to the sample(s) analyzed. The liability of the laboratory is limited to the amount paid for the report by the client. The client assumes all liability for the further distribution of this report or its content and by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM
LOCATION: VICKSBURG, MS 39180
DATE: 04/05/91
PROJECT LOCATION: VICKSBURG, MS.
COLLECTED BY: CLIENT
RECEIPT DATE: 03/26/91
REPORT NO.: 19044
PROJECT NO.:
PAGE NO.: 1

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		24690.00									
Arsenic, Total	mg/l	0.009				BSC	04/02/91	16:00	0.200	102	0
Dinitrobutylphenol	ug/l	<30				KLS	03/27/91	09:30	250	65	3
Methylene Chloride	ug/l	<0.1				SCP	03/27/91	08:07	20	87	0
Toxaphene	ug/l	<0.24				SCP	03/27/91	08:30	5.0	92	0

SUPPLEMENTARY INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:
24690.00 GROUNDWATER MONITORING WELL # 7

COLLECTION DATE/TIME:
03/25/91 03/25/91 UNK

CERTIFICATION:
Sandra C. Pittman
Quality Assurance and Quality Control
Ray Hudnall
Analytical Services

This report applies only to the sample(s) analyzed. The liability of the laboratory is limited to the amount paid for the report by the client. The client assumes all liability for the further distribution of this report or its content and by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 04/05/91 COLLECTED BY: CLIENT REPORT NO.: 19045 PAGE NO.: 1
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS. RECEIPT DATE: 03/26/91 PROJECT NO.:

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		24691.00									
Arsenic, Total	mg/l	0.048				BSC	04/02/91	16:00	0.200	102	0
Dinitrobutylphenol	ug/l	<30				KLB	03/27/91	09:30	250	65	3
Methylene Chloride	ug/l	<0.1				SCP	03/27/91	08:07	20	87	0
Toxaphene	ug/l	<0.24				SCP	03/27/91	08:30	5.0	92	0

SUPPLEMENTARY INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION: **COLLECTION DATE/TIME:**

24691.00 GROUNDWATER MONITORING WELL # 8 03/25/91 03/25/91 UNK

CERTIFICATION:

Sandra C. Pettigrew
Quality Assurance and Quality Control

Ray Hudnall
Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE
LOCATION: VICKSBURG, MS 39180
DATE: 04/05/91
PROJECT LOCATION: VICKSBURG, MS.
COLLECTED BY: CLIENT
RECEIPT DATE: 03/26/91
REPORT NO.: 19046
PROJECT NO.:
PAGE NO.: 1

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT	ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
			ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		24692.00						
Arsenic, Total	mg/l	<0.003	BSC	04/02/91	16:00	0.200	102	0
Dinitrobutylphenol	ug/l	<30	KLG	03/27/91	09:30	250	65	3
Methylene Chloride	ug/l	<0.1	SCP	03/27/91	08:07	20	87	0
Toxaphene	ug/l	<0.24	SCP	03/27/91	08:30	5.0	92	0

SUPPLEMENTARY INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:	COLLECTION DATE/TIME:
24692.00 GROUNDWATER MONITORING WELL # 9	03/25/91 03/25/91 UNK

CERTIFICATION:

Sandra C. Pittman
Quality Assurance and Quality Control

Ray Hudnall
Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 04/05/91 COLLECTED BY: CLIENT REPORT NO.: 19047 PAGE NO.: 1
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS. RECEIPT DATE: 03/26/91 PROJECT NO.:

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		24693.00									
Arsenic, Total	mg/l	0.015				BSC	04/02/91	16:00	0.200	102	0
Dinitrobutylphenol	ug/l	<30				KLG	03/27/91	09:30	250	65	3
Methylene Chloride	ug/l	<0.1				SCP	03/27/91	08:07	20	87	0
Toxaphene	ug/l	<0.24				SCP	03/27/91	08:30	5.0	92	0

SUPPLEMENTARY INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION: 24693.00 GROUNDWATER MONITORING WELL # 10

COLLECTION DATE/TIME: 03/25/91 03/25/91 UNK

CERTIFICATION:

Sandra C. Pittman
Quality Assurance and Quality Control

Ray Hudnall
Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 04/05/91
LOCATION: VICKSBURG, MS 3918 PROJECT LOCATION: VICKSBURG, MS.
COLLECTED BY: CLIENT RECEIPT DATE: 03/26/91
REPORT NO.: 19048 PROJECT NO.:
PAGE NO.: 1

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		24694.00									
Arsenic, Total	mg/l	<0.003				BSC	04/02/91	16:00	0.200	102	0
Dinitrobutylphenol	ug/l	<30				KLB	03/27/91	09:30	250	65	3
Methylene Chloride	ug/l	<0.1				SCP	03/27/91	08:07	20	87	0
Toxaphene	ug/l	<0.24				SCP	03/27/91	08:30	5.0	92	0

SUPPLEMENTARY INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION: 24694.00 GROUNDWATER MONITORING WELL # 11

COLLECTION DATE/TIME: 03/25/91 03/25/91 UNK

CERTIFICATION:

Sandra C. Pittman
Quality Assurance and Quality Control

Ray Hudnall
Analytical Services

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EPS Analytical Services
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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 04/05/91 COLLECTED BY: CLIENT REPORT NO.: 19049 PAGE NO.: 1
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS. RECEIPT DATE: 03/26/91 PROJECT NO.:

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		24695.00									
Arsenic, Total	mg/l	0.008				BSC	04/02/91	16:00	0.200	102	0
Dinitrobutylphenol	ug/l	<30				KLG	03/27/91	09:30	250	65	3
Methylene Chloride	ug/l	<0.1				SCP	03/27/91	08:07	20	87	0
Toxaphene	ug/l	<0.24				SCP	03/27/91	08:30	5.0	92	0

SUPPLEMENTARY INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION: **COLLECTION DATE/TIME:**

24695.00 GROUNDWATER MONITORING WELL # 12 03/25/91 03/25/91 UNK

CERTIFICATION:

Sandra C. Tittsworth
Quality Assurance and Quality Control

Ray Hudnall
Analytical Services

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EPS Analytical Services
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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 04/05/91
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS.
COLLECTED BY: CLIENT RECEIPT DATE: 03/26/91
REPORT NO.: 19050 PROJECT NO.:
PAGE NO.: 1

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT	ANALYSIS INFORMATION: ANALYST	DATE	TIME	BATCH QUALITY CONTROL: SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		24696.00						
Arsenic, Total	mg/l	<0.003	BSC	04/02/91	16:00	0.200	102	0
Dinitrobutylphenol	ug/l	<30	KLG	03/27/91	09:30	250	65	3
Methylene Chloride	ug/l	<0.1	SCP	03/27/91	08:07	20	87	0
Toxaphene	ug/l	<0.24	SCP	03/27/91	08:30	5.0	92	0

SUPPLEMENTARY INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:
24696.00 GROUNDWATER MONITORING WELL # 13

COLLECTION DATE/TIME:
03/25/91 03/25/91 UNK

CERTIFICATION:

Sandra C. Pettigrew
Quality Assurance and Quality Control

Ray Hudnall
Analytical Services

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EPS Analytical Services
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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 04/05/91 COLLECTED BY: CLIENT REPORT NO.: 19051 PAGE NO.: 1
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS. RECEIPT DATE: 03/26/91 PROJECT NO.:

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT	ANALYSIS INFORMATION: ANALYST	DATE	TIME	BATCH QUALITY CONTROL: SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		24697.00						
Arsenic, Total	mg/l	0.004	BSC	04/02/91	16:00	0.200	102	0
Dinitrobutylphenol	ug/l	<30	KLG	03/27/91	09:30	250	65	3
Methylene Chloride	ug/l	<0.1	SCP	03/27/91	08:07	20	87	0
Toxaphene	ug/l	<0.24	SCP	03/27/91	08:30	5.0	92	0

SUPPLEMENTARY INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION: **COLLECTION DATE/TIME:**

24697.00 GROUNDWATER MONITORING WELL # 14 03/25/91 03/25/91 UNK

CERTIFICATION:

Sandra C. Pittman
Quality Assurance and Quality Control

Ray Hudnall
Analytical Services

This report applies only to the sample(s) analyzed. The liability of the labor[illegible]s limited to the amount paid for the report by the client. The client assumes all liability for the further distribution of this report or its content and by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

EPS Analytical Services
5360 I-55 North • Jackson, MS 39211 • Telephone (601) 956-1400 • FAX (601) 956-2365

LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM
LOCATION: VICKSBURG, MS 39180
DATE: 04/05/91
PROJECT LOCATION: VICKSBURG, MS.
COLLECTED BY: CLIENT
RECEIPT DATE: 03/26/91
REPORT NO.: 19052
PROJECT NO.:
PAGE NO.: 1

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT	ANALYSIS INFORMATION: ANALYST	DATE	TIME	BATCH QUALITY CONTROL: SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		24698.00						
Arsenic, Total	mg/l	0.005	BSC	04/02/91	16:00	0.200	102	0
Nitrobutylphenol	ug/l	<30	KLG	03/27/91	09:30	250	65	3
Methylene Chloride	ug/l	<0.1	SCP	03/27/91	08:07	20	87	0
Toxaphene	ug/l	<0.24	SCP	03/27/91	08:30	5.0	92	0

SUPPLEMENTARY INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:
24698.00 GROUNDWATER MONITORING WELL # 16

COLLECTION DATE/TIME:
03/25/91 03/25/91 UNK

CERTIFICATION:
Sandra C Pittman
Quality Assurance and Quality Control
Ray Hudnall
Analytical Services

This report applies only to the sample(s) analyzed. The liability of the laboratory is limited to the amount paid for the report by the client. The client assumes all liability for the further distribution of this report or its content and by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

CEDAR CHEMICAL CORPORATION

24th Floor • 5100 Poplar Avenue • Memphis, TN 38137 • 901-685-5348

REPLY TO: P.O. BOX 3
VICKSBURG, MS 39181
(601) 636-1231

RECEIVED
JAN 29 1991
DEPT. OF ENVIR... QUALITY

HAND DELIVERED

Mr. Toby Cook
Environmental Engineer
Mississippi Department of Environmental Quality
Bureau of Pollution Control
2380 Highway 80 West
Jackson, MS 39204

January 29, 1991

Re: Cedar Chemical Corporation
Groundwater Monitoring, 4th Quarter, 1990

Dear Mr. Cook:

Please find enclosed copies of the results of the 4th Quarter, 1990, Groundwater Monitoring analyses required by DEQ Commission Order 1253 87.

If there are any questions concerning this matter, please contact me.

Sincerely,

Steven T. Boswell
Director of Env. Affairs

STB: pc

xc: Mr. Ahlers
Mr. Madsen

DIVISION OF SOLID WASTE
REVIEWED BY TC
DATE 2/4/91
COMMENTS Copy Sent to EPA

Groundwater Elevations
Cedar Chemical Corporation
December 29, 1990

Well No.	Water Elevation, MSL
1A	108.67'
2	98.28'
4	107.03'
5	85.86'
6	89.76'
7	94.11'
8	103.03'
9	111.27'
10	108.20'
11	98.52'
12	109.77'
13	109.39'
14	107.93'
16	109.38'

EPS Analytical Services
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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 01/25/91 COLLECTED BY: CLIENT REPORT NO.: 17888 PAGE NO.: 1
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS. RECEIPT DATE: 12/31/90 PROJECT NO.:

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT	ANALYSIS INFORMATION: ANALYST	DATE	TIME	BATCH QUALITY CONTROL: SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		22859.00						
Arsenic, Total	mg/l	0.003	BSC	01/06/91	18:00	0.200	102	0
Dinitrobutylphenol	ug/l	164	SCP	01/08/91	13:30	1.0	140	0
Methylene Chloride	ug/l	<0.1	SCP	01/22/91	09:00	20	112	0
Toxaphene	ug/l	<0.24	SCP	01/10/91	08:00	25	102	7.1

SUPPLEMENTARY INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

RECEIVED
JAN 29 1991

SAMPLE DESCRIPTION: 22859.00 GROUNDWATER MONITORING WELL 1A

COLLECTION DATE/TIME: 12/27/90 12/27/90 06:30

CERTIFICATION:

Ray Hudnall
Quality Assurance and Quality Control

Herbert A Johnston
Analytical Services

This report applies only to the sample(s) analyzed. The liability of the laboratory is limited to the amount paid for the report by the client. The client assumes all liability for the further distribution of this report or its content and by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 01/25/91 COLLECTED BY: CLIENT REPORT NO.: 17889 PAGE NO.: 1
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS. RECEIPT DATE: 12/31/90 PROJECT NO.:

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT	ANALYSIS INFORMATION: ANALYST	DATE	TIME	BATCH QUALITY CONTROL: SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		22860.00						
Arsenic, Total	mg/l	0.003	BSC	01/06/91	18:00	0.200	102	0
Dinitrobutylphenol	ug/l	<30	SCP	01/08/91	13:30	1.0	140	0
Methylene Chloride	ug/l	<0.1	SCP	01/22/91	09:00	20	112	0
Toxaphene	ug/l	<0.24	SCP	01/10/91	08:00	25	102	7.1

SUPPLEMENTARY INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION: 22860.00 GROUNDWATER MONITORING WELL 2

COLLECTION DATE/TIME: 12/27/90 12/27/90 13:50

CERTIFICATION:

Ray Dudnall
Quality Assurance and Quality Control

Herbert C. Johnston
Analytical Services

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E P S Analytical Services
5360 I-55 North • Jackson, MS 39211 • Telephone (601) 956-1400 • FAX (601) 956-2365

LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 01/25/91 COLLECTED BY: CLIENT REPORT NO.: 17890 PAGE NO.: 1
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS. RECEIPT DATE: 12/31/90 PROJECT NO.:

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT	ANALYSIS INFORMATION ANALYST	DATE	TIME	BATCH QUALITY CONTROL SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		22861.00						
Arsenic, Total	mg/l	<0.003	BSC	01/06/91	18:00	0.200	102	0
Dinitrobutylphenol	ug/l	<30	SCP	01/08/91	13:30	1.0	140	0
Methylene Chloride	ug/l	<0.1	SCP	01/22/91	09:00	20	112	0
Toxaphene	ug/l	<0.24	SCP	01/10/91	08:00	25	102	7.1

SUPPLEMENTARY INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:
22861.00 GROUNDWATER MONITORING WELL 4

COLLECTION DATE/TIME:
12/27/90 12/27/90 13:40

CERTIFICATION:
Ray Hudnall
Quality Assurance and Quality Control
Herbert A. Johnston
Analytical Services

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EPS Analytical Services
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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM
LOCATION: VICKSBURG, MS 39180
DATE: 01/25/91
PROJECT LOCATION: VICKSBURG, MS.
COLLECTED BY: CLIENT
RECEIPT DATE: 12/31/90
REPORT NO.: 17891
PROJECT NO.:
PAGE NO.: 1

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT	ANALYSIS INFORMATION: ANALYST	DATE	TIME	BATCH QUALITY CONTROL: SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		22862.00						
Arsenic, Total	mg/l	<0.003	BSC	01/06/91	18:00	0.200	102	0
Dinitrobutylphenol	ug/l	<30	SCP	01/08/91	13:30	1.0	140	0
Methylene Chloride	ug/l	<0.1	SCP	01/22/91	09:00	20	112	0
Toxaphene	ug/l	<0.24	SCP	01/10/91	08:00	25	102	7.1

SUPPLEMENTARY INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:
22862.00 GROUNDWATER MONITORING WELL 5

COLLECTION DATE/TIME:
12/28/90 12/28/90 11:20

CERTIFICATION:

Ray Hudnall
Quality Assurance and Quality Control

Herbert R. Johnston
Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM
LOCATION: VICKSBURG, MS 39180
DATE: 01/25/91
PROJECT LOCATION: VICKSBURG, MS.
COLLECTED BY: CLIENT
RECEIPT DATE: 12/31/90
REPORT NO.: 17892
PROJECT NO.:
PAGE NO.: 1

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT	ANALYSIS INFORMATION: ANALYST	DATE	TIME	BATCH QUALITY CONTROL: SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		22863.00						
Arsenic, Total	mg/l	<0.003	BSC	01/06/91	18:00	0.200	102	0
Dinitrobutylphenol	ug/l	<30	SCP	01/08/91	13:30	1.0	140	0
Methylene Chloride	ug/l	<0.1	SCP	01/22/91	09:00	20	112	0
Toxaphene	ug/l	<0.24	SCP	01/10/91	08:00	25	102	7.1

SUPPLEMENTARY INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:	COLLECTION DATE/TIME:
22863.00 GROUNDWATER MONITORING WELL 6	12/28/90 12/28/90 11:30

CERTIFICATION:

Ray Hudnall
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM
LOCATION: VICKSBURG, MS 39180
DATE: 01/25/91
PROJECT LOCATION: VICKSBURG, MS.
COLLECTED BY: CLIENT
RECEIPT DATE: 12/31/90
REPORT NO.: 17893
PROJECT NO.:
PAGE NO.: 1

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT	ANALYSIS INFORMATION: ANALYST	DATE	TIME	BATCH QUALITY CONTROL: SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		22864.00						
Arsenic, Total	mg/l	<0.003	BSC	01/06/91	18:00	0.200	102	0
Dinitrobutylphenol	ug/l	<30	SCP	01/08/91	13:30	1.0	140	0
Methylene Chloride	ug/l	<0.1	SCP	01/22/91	09:00	20	112	0
Toxaphene	ug/l	<0.24	SCP	01/10/91	08:00	25	102	7.1

SUPPLEMENTARY INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION: 22864.00 GROUNDWATER MONITORING WELL 7

COLLECTION DATE/TIME: 12/28/90 12/28/90 11:40

CERTIFICATION:

Ray Hudnall
Quality Assurance and Quality Control

Robert A. Johnston
Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM
LOCATION: VICKSBURG, MS 39180
DATE: 01/25/91
PROJECT LOCATION: VICKSBURG, MS.
COLLECTED BY: CLIENT
RECEIPT DATE: 12/31/90
REPORT NO.: 17894
PROJECT NO.:
PAGE NO.: 1

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT	ANALYSIS INFORMATION: ANALYST	DATE	TIME	BATCH QUALITY CONTROL: SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		22865.00						
Arsenic, Total	ug/l	<0.003	BSC	01/06/91	18:00	0.200	102	0
Dinitrobutylphenol	ug/l	<30	SCP	01/08/91	13:30	1.0	140	0
Methylene Chloride	ug/l	<0.1	SCP	01/22/91	09:00	20	112	0
Toxaphene	ug/l	<0.24	SCP	01/10/91	08:00	25	102	7.1

SUPPLEMENTARY INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION: 22865.00 GROUNDWATER MONITORING WELL 8

COLLECTION DATE/TIME: 12/28/90 12/28/90 11:10

CERTIFICATION:

Ray Hudnall
Quality Assurance and Quality Control

Robert A. Johnston
Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM
LOCATION: VICKSBURG, MS 39180
DATE: 01/25/91
PROJECT LOCATION: VICKSBURG, MS.
COLLECTED BY: CLIENT
RECEIPT DATE: 12/31/90
REPORT NO.: 17895
PROJECT NO.:
PAGE NO.: 1

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT	ANALYSIS INFORMATION: ANALYST	DATE	TIME	BATCH QUALITY CONTROL: SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		22866.00						
Arsenic, Total	mg/l	<0.003	BSC	01/06/91	18:00	0.200	102	0
Dinitrobutylphenol	ug/l	<30	SCP	01/08/91	13:30	1.0	140	0
Methylene Chloride	ug/l	<0.1	SCP	01/22/91	09:00	20	112	0
Toxaphene	ug/l	<0.24	SCP	01/10/91	08:00	25	102	7.1

SUPPLEMENTARY INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION: 22866.00 GROUNDWATER MONITORING WELL 9

COLLECTION DATE/TIME: 12/27/90 12/27/90 14:30

CERTIFICATION:

Ray Hudnall
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical Services

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EPS Analytical Services
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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM
LOCATION: VICKSBURG, MS 39180
DATE: 01/25/91
PROJECT LOCATION: VICKSBURG, MS.
COLLECTED BY: CLIENT
RECEIPT DATE: 12/31/90
REPORT NO.: 17896
PROJECT NO.:
PAGE NO.: 1

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT	ANALYSIS INFORMATION: ANALYST	DATE	TIME	BATCH QUALITY CONTROL: SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		22867.00						
Arsenic, Total	mg/l	<0.003	BSC	01/06/91	18:00	0.200	102	0
Dinitrobutylphenol	ug/l	<30	SCP	01/08/91	13:30	1.0	140	0
Methylene Chloride	ug/l	<0.1	SCP	01/22/91	09:00	20	112	0
Toxaphene	ug/l	<0.24	SCP	01/10/91	08:00	25	102	7.1

SUPPLEMENTARY INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:
22867.00 GROUNDWATER MONITORING WELL 10

COLLECTION DATE/TIME:
12/27/90 12/27/90 14:10

CERTIFICATION:
Ray Hudnall
Quality Assurance and Quality Control
Herbert L. Johnston
Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM
LOCATION: VICKSBURG, MS 39180
DATE: 01/25/91
PROJECT LOCATION: VICKSBURG, MS.
COLLECTED BY: CLIENT
RECEIPT DATE: 12/31/90
REPORT NO.: 17897
PROJECT NO.:
PAGE NO.: 1

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT	ANALYSIS INFORMATION: ANALYST	DATE	TIME	BATCH QUALITY CONTROL: SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		22868.00						
Arsenic, Total	ug/l	<0.003	BSC	01/06/91	18:00	0.200	102	0
Dinitrobutylphenol	ug/l	<30	SCP	01/08/91	13:30	1.0	140	0
Methylene Chloride	ug/l	<0.1	SCP	01/22/91	09:00	20	112	0
Toxaphene	ug/l	<0.24	SCP	01/10/91	08:00	25	102	7.1

SUPPLEMENTARY INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION: 22868.00 GROUNDWATER MONITORING WELL 11

COLLECTION DATE/TIME: 12/27/90 12/27/90 14:20

CERTIFICATION:

Ray Hudnall
Quality Assurance and Quality Control

Herbert R. Johnston
Analytical Services

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EPS Analytical Services
5360 I-55 North • Jackson, MS 39211 • Telephone (601) 956-1400 • FAX (601) 956-2365

LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM
LOCATION: VICKSBURG, MS 39180
DATE: 01/25/91
PROJECT LOCATION: VICKSBURG, MS.
COLLECTED BY: CLIENT
RECEIPT DATE: 12/31/90
REPORT NO.: 17898
PROJECT NO.:
PAGE NO.: 1

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT	ANALYSIS INFORMATION: ANALYST	DATE	TIME	BATCH QUALITY CONTROL: SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		22869.00						
Arsenic, Total	mg/l	0.004	BSC	01/06/91	18:00	0.200	102	0
Dinitrobutylphenol	ug/l	<30	SCP	01/08/91	13:30	1.0	140	0
Methylene Chloride	ug/l	<0.1	SCP	01/22/91	09:00	20	112	0
Toxaphene	ug/l	<0.24	SCP	01/10/91	08:00	25	102	7.1

SUPPLEMENTARY INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:
22869.00 GROUNDWATER MONITORING WELL 12

COLLECTION DATE/TIME:
12/27/90 12/27/90 14:00

CERTIFICATION:
Ray Hudnall
Quality Assurance and Quality Control
Robert A. Johnston
Analytical Services

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EPS Analytical Services
5360 I-55 North • Jackson, MS 39211 • Telephone (601) 956-1400 • FAX (601) 956-2365

LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM
LOCATION: VICKSBURG, MS 39180
DATE: 01/25/91
PROJECT LOCATION: VICKSBURG, MS.
COLLECTED BY: CLIENT
RECEIPT DATE: 12/31/90
REPORT NO.: 17899
PROJECT NO.:
PAGE NO.: 1

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT	ANALYSIS INFORMATION: ANALYST	DATE	TIME	BATCH QUALITY CONTROL: SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		22870.00						
Arsenic, Total	mg/l	0.014	BSC	01/06/91	18:00	0.200	102	0
Dinitrobutylphenol	ug/l	<30	SCP	01/08/91	13:30	1.0	140	0
Methylene Chloride	ug/l	<0.1	SCP	01/22/91	09:00	20	112	0
Toxaphene	ug/l	<0.24	SCP	01/10/91	08:00	25	102	7.1

SUPPLEMENTARY INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:	COLLECTION DATE/TIME:
22870.00 GROUNDWATER MONITORING WELL 13	12/27/90 12/27/90 15:10

CERTIFICATION:

Ray Hudnall
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM DATE: 01/25/91 COLLECTED BY: CLIENT REPORT NO.: 17900 PAGE NO.: 1
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS. RECEIPT DATE: 12/31/90 PROJECT NO.:

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT	ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
			ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		22871.00						
Arsenic, Total	mg/l	0.004	BSC	01/06/91	18:00	0.200	102	0
Dinitrobutylphenol	ug/l	<30	SCP	01/08/91	13:30	1.0	140	0
Methylene Chloride	ug/l	<0.1	SCP	01/22/91	09:00	20	112	0
Toxaphene	ug/l	<0.24	SCP	01/10/91	08:00	25	102	7.1

SUPPLEMENTARY INFORMATION:

Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:	COLLECTION DATE/TIME:	CERTIFICATION:
22871.00 GROUNDWATER MONITORING WELL 14	12/27/90 12/27/90 15:00	Ray Hudnall, Quality Assurance and Quality Control Herbert R. Smith, Analytical Services

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EPS Analytical Services
5360 I-55 North • Jackson, MS 39211 • Telephone (601) 956-1400 • FAX (601) 956-2365

LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM
LOCATION: VICKSBURG, MS 39180
DATE: 01/25/91
PROJECT LOCATION: VICKSBURG, MS.
COLLECTED BY: CLIENT
RECEIPT DATE: 12/31/90
REPORT NO.: 17901
PROJECT NO.:
PAGE NO.: 1

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT	ANALYSIS INFORMATION: ANALYST	DATE	TIME	BATCH QUALITY CONTROL: SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		22872.00						
Arsenic, Total	mg/l	0.003	BSC	01/06/91	18:00	0.200	102	0
Dinitrobutylphenol	ug/l	<30	SCP	01/08/91	13:30	1.0	140	0
Methylene Chloride	ug/l	<0.1	SCP	01/22/91	09:00	20	112	0.
Toxaphene	ug/l	<0.24	SCP	01/10/91	08:00	25	102	7.1

SUPPLEMENTARY INFORMATION:

Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:	COLLECTION DATE/TIME:
22872.00 GROUNDWATER MONITORING WELL 16	12/27/90 12/27/90 14:40

CERTIFICATION:

Ray Hudnall
Quality Assurance and Quality Control

Herbert R. Johnston
Analytical Services

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CEDAR CHEMICAL CORPORATION

24th Floor • 5100 Poplar Avenue • Memphis, TN 38137 • 901-685-5348

REPLY TO: P.O. BOX 3
VICKSBURG, MS 39181
(601) 636-1231

CERTIFIED MAIL
RETURN RECEIPT REQUESTED
P 850 518 336

RECEIVED
OCT 23 1990
Dept. of Environmental Quality
Bureau of Pollution Control

Mr. Toby Cook
Environmental Engineer
Mississippi Department of Environmental Quality
Bureau of Pollution Control
2380 Highway 80 West
Jackson, MS 39204

October 22, 1990

Re: Cedar Chemical Corporation
Groundwater Monitoring, 3rd Quarter, 1990

Dear Mr. Cook:

Please find enclosed copies of the results of the 3rd Quarter, 1990, Groundwater Monitoring analyses required by DEQ Commission Order 1253 87. Monitor Well No.5 did not contain sufficient volume to sample for this round of sampling.

If there are any questions concerning this matter, please contact me.

Sincerely,

Steven T. Boswell
Director of Env. Affairs

STB: pc

xc: Mr. Ahlers
Mr. Madsen

DIVISION OF SOLID WASTE
REVIEWED BY TC
DATE 10/24/90
COMMENTS Copy sent to EPA

Cedar Chemical Corporation
Groundwater Elevations
9/26/90

Well No.	Water Elevation
1A	104.85'
2	92.27
4	104.93
5	81.76
6	83.95
7	87.51
8	100.67
9	109.20
10	106.12
11	95.15
12	107.02
13	107.46
14	104.61
16	107.19

EPS Analytical Services
5360 I-55 North • Jackson, MS 39211 • Telephone (601) 956-1400 • FAX (601) 956-2365

LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 10/19/90
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS.
COLLECTED BY: CLIENT RECEIPT DATE: 09/27/90
REPORT NO.: 16221 PROJECT NO.:
PAGE NO.: 1

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		20677.00									
Arsenic, Total	mg/l	<0.003				BSC	09/30/90	17:00	0.200	92	0
Dinitrobutylphenol	ug/l	441				SCP	10/04/90	15:00	200	35	23
Methylene Chloride	ug/l	<0.1				SCP	10/08/90	08:51	20	91	0
Toxaphene	ug/l	<0.24				SCP	10/08/90	13:00	2.5	97	0.4

SUPPLEMENTARY INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:
20677.00 GROUNDWATER MONITORING WELL 1A

COLLECTION DATE/TIME:
09/26/90-09/26/90 UNK

CERTIFICATION:
Ray Hudnall
Quality Assurance and Quality Control
Herbert A. Johnston
Analytical Services

This report applies only to the sample(s) analyzed. The liability of the laboratory is limited to the amount paid for the report by the client. The client assumes all liability for the further distribution of this report or its content and by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

EPS Analytical Services
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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 10/18/90 COLLECTED BY: CLIENT REPORT NO.: 16222 PAGE NO.: 1
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS. RECEIPT DATE: 09/27/90 PROJECT NO.:

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		20678.00									
Arsenic, Total	mg/l	<0.003				BSC	09/30/90	17:00	0.200	92	0
Dinitrobutylphenol	ug/l	<30				SCP	10/04/90	15:00	200	35	23
Methylene Chloride	ug/l	<0.1				SCP	10/08/90	08:51	20	91	0
Toxaphene	ug/l	<0.24				SCP	10/08/90	13:00	2.5	97	0.4

SUPPLEMENTARY INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:
20678.00 GROUNDWATER MONITORING WELL 2

COLLECTION DATE/TIME:
09/26/90-09/26/90 UNK

CERTIFICATION:

Ray Hudnall
Quality Assurance and Quality Control

Herbert R. Johnston
Analytical Services

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EPS Analytical Services
5360 I-55 North • Jackson, MS 39211 • Telephone (601) 956-1400 • FAX (601) 956-2365

LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM
LOCATION: VICKSBURG, MS 39180
DATE: 10/18/90
PROJECT LOCATION: VICKSBURG, MS.
COLLECTED BY: CLIENT
RECEIPT DATE: 09/27/90
REPORT NO.: 16223
PROJECT NO.:
PAGE NO.: 1

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		20679.00									
Arsenic, Total	mg/l	<0.003				BSC	09/30/90	17:00	0.200	92	0
Dinitrobutylphenol	ug/l	<30				SCP	10/04/90	15:00	200	35	23
Methylene Chloride	ug/l	<0.1				SCP	10/08/90	08:31	20	91	0
Toxaphene	ug/l	<0.24				SCP	10/08/90	13:00	2.5	97	0.4

SUPPLEMENTARY INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:
20679.00 GROUNDWATER MONITORING WELL 4

COLLECTION DATE/TIME:
09/26/90-09/26/90 UNK

CERTIFICATION:
Ray Hudnall
Quality Assurance and Quality Control
Herbert A. Johnston
Analytical Services

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EPS Analytical Services
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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM DATE: 10/18/90 COLLECTED BY: CLIENT REPORT NO.: 16224 PAGE NO.: 1
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS. RECEIPT DATE: 09/27/90 PROJECT NO.:

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		20680.00									
Arsenic, Total	mg/l	<0.003				BSC	09/30/90	17:00	0.200	92	0
Dinitrobutylphenol	ug/l	<30				SCP	10/04/90	15:00	200	35	23
Methylene Chloride	ug/l	<0.1				SCP	10/08/90	08:51	20	91	0
Toxaphene	ug/l	<0.24				SCP	10/08/90	13:00	2.5	97	0.4

SUPPLEMENTARY INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:
20680.00 GROUNDWATER MONITORING WELL 6

COLLECTION DATE/TIME:
09/26/90-09/26/90 UNK

CERTIFICATION:
Ray Hudnall
Quality Assurance and Quality Control
Herbert A. Johnston
Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM DATE: 10/19/90 COLLECTED BY: CLIENT REPORT NO.: 16225 PAGE NO.: 1
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS. RECEIPT DATE: 09/27/90 PROJECT NO.:

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		20681.00									
Arsenic, Total	mg/l	<0.003				BSC	09/30/90	17:00	0.200	92	0
Dinitrobutylphenol	ug/l	<30				SCP	10/04/90	15:00	200	35	23
Methylene Chloride	ug/l	<0.1				SCP	10/08/90	08:51	20	91	0
Toxaphene	ug/l	<0.24				SCP	10/08/90	13:00	2.5	97	0.4

SUPPLEMENTARY INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:
20681.00 GROUNDWATER MONITORING WELL 7

COLLECTION DATE/TIME:
09/26/90-09/26/90 UNK

CERTIFICATION:
Ray Hudnall
Quality Assurance and Quality Control
Herbert A. Johnston
Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM DATE: 10/18/90 COLLECTED BY: CLIENT REPORT NO.: 16226 PAGE NO.: 1
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS. RECEIPT DATE: 09/27/90 PROJECT NO.:

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT	ANALYSIS INFORMATION: ANALYST	DATE	TIME	BATCH QUALITY CONTROL: SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		20682.00						
Arsenic, Total	mg/l	0.003	BSC	09/30/90	17:00	0.200	92	0
Dinitrobutylphenol	ug/l	<30	SCP	10/04/90	15:00	200	35	23
Methylene Chloride	ug/l	<0.1	SCP	10/08/90	08:51	20	91	0
Toxaphene	ug/l	<0.24	SCP	10/08/90	13:00	2.5	97	0.4

SUPPLEMENTARY INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:
20682.00 GROUNDWATER MONITORING WELL 8

COLLECTION DATE/TIME:
09/26/90-09/26/90 UNK

CERTIFICATION:
Ray Hudnall
Quality Assurance and Quality Control
Robert A. Johnston
Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 10/18/90 COLLECTED BY: CLIENT REPORT NO.: 16227 PAGE NO.: 1
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS. RECEIPT DATE: 09/27/90 PROJECT NO.:

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT	ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
			ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		20683.00						
Arsenic, Total	mg/l	<0.003	BSG	09/30/90	17:00	0.200	92	0
Dinitrobutylphenol	ug/l	<30	SCP	10/04/90	15:00	200	35	23
Methylene Chloride	ug/l	<0.1	SCP	10/08/90	08:51	20	91	0
Toxaphene	ug/l	<0.24	SCP	10/08/90	13:00	2.5	97	0.4

SUPPLEMENTARY INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:
20683.00 GROUNDWATER MONITORING WELL 9

COLLECTION DATE/TIME:
09/26/90-09/26/90 UNK

CERTIFICATION:
Ray Hudnall
Quality Assurance and Quality Control
Herbert A Johnston
Analytical Services

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EPS Analytical Services
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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM DATE: 10/18/90
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS.
COLLECTED BY: CLIENT RECEIPT DATE: 09/27/90
REPORT NO.: 16228 PROJECT NO.:
PAGE NO.: 1

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		20684.00									
Arsenic, Total	mg/l	<0.003				BSC	09/30/90	17:00	0.200	92	0
Dinitrobutylphenol	ug/l	<30				SCP	10/04/90	15:00	200	35	23
Methylene Chloride	ug/l	<0.1				SCP	10/08/90	08:51	20	91	0
Toxaphene	ug/l	<0.24				SCP	10/08/90	13:00	2.5	97	0.4

SUPPLEMENTARY INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:
20684.00 GROUNDWATER MONITORING WELL 10

COLLECTION DATE/TIME:
09/26/90-09/26/90 UNK

CERTIFICATION:
Ray Hudnall
Quality Assurance and Quality Control
Herbert A. Johnston
Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 10/18/90 COLLECTED BY: CLIENT REPORT NO.: 16229 PAGE NO.: 1
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS. RECEIPT DATE: 09/27/90 PROJECT NO.:

ANALYTE	UNITS	LABORATORY RESULTS				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
		REGULATORY LIMIT				ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		20685.00									
Arsenic, Total	mg/l	<0.003				BSC	09/30/90	17:00	0.200	92	0
Dinitrobutylphenol	ug/l	<30				SCP	10/04/90	15:00	200	35	23
Methylene Chloride	ug/l	<0.1				SCP	10/08/90	08:51	20	91	0
Toxaphene	ug/l	<0.24				SCP	10/08/90	13:00	2.5	97	0.4

SUPPLEMENTARY INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:
20685.00 GROUNDWATER MONITORING WELL 11

COLLECTION DATE/TIME:
09/26/90-09/26/90 UNK

CERTIFICATION:

Ray Hudnall
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 10/19/90 COLLECTED BY: CLIENT REPORT NO.: 16230 PAGE NO.: 1
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS. RECEIPT DATE: 09/27/90 PROJECT NO.:

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		20686.00									
Arsenic, Total	mg/l	<0.003				BSC	09/30/90	17:00	0.200	92	0
Dinitrobutylphenol	ug/l	<30				SCP	10/04/90	15:00	200	35	23
Methylene Chloride	ug/l	<0.1				SCP	10/08/90	08:51	20	91	0
Toxaphene	ug/l	<0.24				SCP	10/08/90	13:00	2.5	97	0.4

SUPPLEMENTARY INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:	COLLECTION DATE/TIME:
20686.00 GROUNDWATER MONITORING WELL 12	09/26/90-09/26/90 UNK

CERTIFICATION:

Ray Hudnall
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical Services

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EPS Analytical Services
5360 I-55 North • Jackson, MS 39211 • Telephone (601) 956-1400 • FAX (601) 956-2365

LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 10/19/90 COLLECTED BY: CLIENT REPORT NO.: 16231 PAGE NO.: 1
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS. RECEIPT DATE: 09/27/90 PROJECT NO.:

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		20687.00									
Arsenic, Total	mg/l	0.004				BSC	09/30/90	17:00	0.200	92	0
Dinitrobutylphenol	ug/l	<30				SCP	10/04/90	15:00	200	35	23
Methylene Chloride	ug/l	<0.1				SCP	10/08/90	08:51	20	91	0
Toxaphene	ug/l	<0.24				SCP	10/08/90	13:00	2.5	97	0.4

SUPPLEMENTARY INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:
20687.00 GROUNDWATER MONITORING WELL 13

COLLECTION DATE/TIME:
09/26/90-09/26/90 UNK

CERTIFICATION:
Ray Hudnall
Quality Assurance and Quality Control
Herbert A. Johnston
Analytical Services

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E P S Analytical Services
5360 I-55 North • Jackson, MS 39211 • Telephone (601) 956-1400 • FAX (601) 956-2365

LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 10/18/90 COLLECTED BY: CLIENT REPORT NO.: 16232 PAGE NO.: 1
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS. RECEIPT DATE: 09/27/90 PROJECT NO.:

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		20688.00									
Arsenic, Total	mg/l	<0.003				BSC	09/30/90	17:00	0.200	92	0
Dinitrobutylphenol	ug/l	<30				SCP	10/04/90	15:00	200	35	23
Methylene Chloride	ug/l	<0.1				SCP	10/08/90	08:51	20	91	0
Toxaphene	ug/l	<0.24				SCP	10/08/90	13:00	2.5	97	0.4

SUPPLEMENTARY INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:	COLLECTION DATE/TIME:
20688.00 GROUNDWATER MONITORING WELL 14	09/26/90-09/26/90 UNK

CERTIFICATION:

Ray Hudnall
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical Services

This report applies only to the sample(s) analyzed. The liability of the laboratory is limited to the amount paid for the report by the client. The client assumes all liability for the further distribution of this report or its content and by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

E P S Analytical Services
5360 I-55 North • Jackson, MS 39211 • Telephone (601) 956-1400 • FAX (601) 956-2365

LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 10/18/90 COLLECTED BY: CLIENT REPORT NO.: 16233 PAGE NO.: 1
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS. RECEIPT DATE: 09/27/90 PROJECT NO.:

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		20689.00									
Arsenic, Total	mg/l	0.005				BSC	09/30/90	17:00	0.200	92	0
Dinitrobutylphenol	ug/l	<30				SCP	10/04/90	15:00	200	35	23
Methylene Chloride	ug/l	<0.1				SCP	10/08/90	08:51	20	91	0
Toxaphene	ug/l	<0.24				SCP	10/08/90	13:00	2.5	97	0.4

SUPPLEMENTARY INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:
20689.00 GROUNDWATER MONITORING WELL 16

COLLECTION DATE/TIME:
09/26/90-09/26/90 UNK

CERTIFICATION:

Ray Hudnall
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical Services

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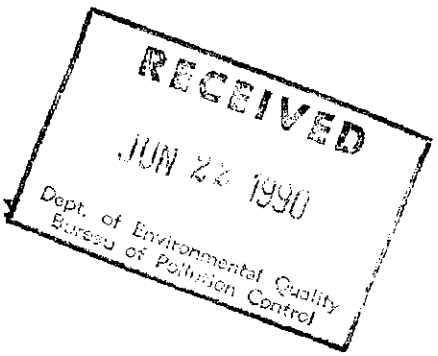
CEDAR CHEMICAL CORPORATION

24th Floor • 5100 Poplar Avenue • Memphis, TN 38137 • 901-685-5348

REPLY TO: P.O. BOX 3
VICKSBURG, MS 39181
(601) 636-1231

CERTIFIED MAIL
RETURN RECEIPT REQUESTED
P 850 518 325



Mr. Toby Cook
Environmental Engineer
Mississippi Department of Environmental Quality
Bureau of Pollution Control
2380 Highway 80 West
Jackson, MS 39204

June 19, 1990

Re: Cedar Chemical Corporation
Groundwater Monitoring, 2nd Quarter, 1990

Dear Mr. Cook:

Please find enclosed copies of the results of the 2nd Quarter Groundwater Monitoring analyses required by DEQ Commission Order 1253 87.

If there are any questions concerning this matter, please contact me.

Sincerely,

Steven T. Boswell

Steven T. Boswell
Director of Env. Affairs

STB: pc

xc: Mr. Ahlers
Mr. Madsen

DIVISION OF SOLID WASTE
REVIEWED BY TC
DATE 6/22/90
COMMENTS Copy sent to EPA

Cedar Chemical Corporation
Groundwater Elevations
6/7 - 6/8/90

Well No.	Water Elevation
1A	108.4'
2	101.7'
4	108.5'
5	91.2'
6	92.2'
7	94.6'
8	104.1'
9	112.0'
10	108.8'
11	98.7'
12	110.7'
13	110.3'
14	107.9'
16	109.9'

EPS Analytical Services
5360 I-55 North • Jackson, MS 39211 • Telephone (601) 956-1400 • FAX (601) 956-2365

LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM DATE: 06/18/90
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS.
COLLECTED BY: CLIENT
RECEIPT DATE: 06/08/90
REPORT NO.: 13947
PROJECT NO.:
PAGE NO.: 1

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION: ANALYST	DATE	TIME	BATCH QUALITY CONTROL: SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		18230.00									
Arsenic, Total	ug/l	<0.003				BSC	06/12/90	15:00	0.200	102	0
Dinitrobutylphenol	ug/l	362				SCP	06/12/90	10:00	200	92	8.9
Methylene Chloride	ug/l	<0.1				SCP	06/14/90	11:45	40	93	9.3
Toxaphene	ug/l	<0.24				SCP	06/11/90	08:20	25	101	12

SUPPLEMENTARY INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:
18230.00 GROUNDWATER MONITORING WELL 1A

COLLECTION DATE/TIME:
06/08/90 06/08/90 10:10

CERTIFICATION:
Ray Hudnall
Quality Assurance and Quality Control
Herbert A. Johnston
Analytical Services

This report applies only to the sample(s) analyzed. The liability of the laboratory is limited to the amount paid for the report by the client. The client assumes all liability for the further distribution of this report or its content and by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

EPS Analytical Services
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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM
LOCATION: VICKSBURG, MS 39180
DATE: 06/18/90
PROJECT LOCATION: VICKSBURG, MS.
COLLECTED BY: CLIENT
RECEIPT DATE: 06/08/90
REPORT NO.: 13948
PROJECT NO.:
PAGE NO.: 1

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		18231.00									
Arsenic, Total	ug/l	<0.003				BSC	06/12/90	15:00	0.200	102	0
4-Nitrobutylphenol	ug/l	<30				SCP	06/12/90	10:00	200	92	8.9
Methylene Chloride	ug/l	<0.1				SCP	06/14/90	11:45	40	93	9.3
Toxaphene	ug/l	<0.24				SCP	06/11/90	08:20	25	101	12

SUPPLEMENTARY INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:
18231.00 GROUNDWATER MONITORING WELL 2

COLLECTION DATE/TIME:
06/08/90 06/08/90 08:32

CERTIFICATION:

Ray Hudnall
Quality Assurance and Quality Control

Robert A. Johnston
Analytical Services

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EPS Analytical Services
5360 I-55 North • Jackson, MS 39211 • Telephone (601) 956-1400 • FAX (601) 956-2365

LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM DATE: 06/18/90
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS.
COLLECTED BY: CLIENT RECEIPT DATE: 06/08/90
REPORT NO.: 13949 PROJECT NO.: PAGE NO.: 1

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION: ANALYST	DATE	TIME	BATCH QUALITY CONTROL: SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		18232.00									
Arsenic, Total	ug/l	<0.003				DSC	06/12/90	15:00	0.200	102	0
Dinitrobutylphenol	ug/l	<30				SCP	06/12/90	10:00	200	92	8.9
Methylene Chloride	ug/l	<0.1				SCP	06/14/90	11:45	40	93	9.3
Toxaphene	ug/l	<0.24				SCP	06/11/90	08:20	25	101	12

SUPPLEMENTARY INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:
18232.00 GROUNDWATER MONITORING WELL 4

COLLECTION DATE/TIME:
06/07/90 06/07/90 09:00

CERTIFICATION:

Ray Hedrall
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical Services

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EPS Analytical Services
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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM DATE: 06/18/90
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS.
COLLECTED BY: CLIENT RECEIPT DATE: 06/08/90
REPORT NO.: 13950 PROJECT NO.:
PAGE NO.: 1

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT	ANALYSIS INFORMATION: ANALYST	DATE	TIME	BATCH QUALITY CONTROL: SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		18233.00						
Arsenic, Total	ug/l	<0.003	BSC	06/12/90	15:00	0.200	102	0
Dinitrobutylphenol	ug/l	<30	SCP	06/12/90	10:00	200	92	8.9
Methylene Chloride	ug/l	<0.1	SCP	06/14/90	11:45	40	93	9.3
Toxaphene	ug/l	<0.24	SCP	06/11/90	08:20	25	101	12

SUPPLEMENTARY INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:
18233.00 GROUNDWATER MONITORING WELL 5

COLLECTION DATE/TIME:
06/07/90 06/07/90 10:45

CERTIFICATION:

Ray Hudnall
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical Services

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E P S Analytical Services
5360 I-55 North • Jackson, MS 39211 • Telephone (601) 956-1400 • FAX (601) 956-2365

LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM DATE: 06/18/90 COLLECTED BY: CLIENT REPORT NO.: 13951 PAGE NO.: 1
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS. RECEIPT DATE: 06/08/90 PROJECT NO.:

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		18234.00									
Arsenic, Total	ug/l	<0.003				BSC	06/12/90	15:00	0.200	102	0
4-Nitrobutylphenol	ug/l	<30				SCP	06/12/90	10:00	200	92	8.9
Methylene Chloride	ug/l	<0.1				SCP	06/14/90	11:45	40	93	9.3
Toxaphene	ug/l	<0.24				SCP	06/11/90	08:20	25	101	12

SUPPLEMENTARY INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:
18234.00 GROUNDWATER MONITORING WELL 6

COLLECTION DATE/TIME:
06/07/90 06/07/90 11:00

CERTIFICATION:

Ray Hudnall
Quality Assurance and Quality Control

Analytical Services

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EPS Analytical Services
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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM DATE: 06/18/90
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS.
COLLECTED BY: CLIENT RECEIPT DATE: 06/08/90
REPORT NO.: 13952 PROJECT NO.:
PAGE NO.: 1

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT	ANALYSIS INFORMATION: ANALYST	DATE	TIME	BATCH QUALITY CONTROL: SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		18235.00						
Arsenic, Total	ug/l	0.006	BSC	06/12/90	15:00	0.200	102	0
Dinitrobutylphenol	ug/l	<30	SCP	06/12/90	10:00	200	92	8.9
Methylene Chloride	ug/l	<0.1	SCP	06/14/90	11:45	40	93	9.3
Toxaphene	ug/l	<0.24	SCP	06/11/90	08:20	25	101	12

SUPPLEMENTARY INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:
18235.00 GROUNDWATER MONITORING WELL 7

COLLECTION DATE/TIME:
06/07/90 06/07/90 11:15

CERTIFICATION:

Ray Hudnall
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical Services

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EPS Analytical Services
5360 I-55 North • Jackson, MS 39211 • Telephone (601) 956-1400 • FAX (601) 956-2365

LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM DATE: 06/18/90
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS.
COLLECTED BY: CLIENT RECEIPT DATE: 06/08/90
REPORT NO.: 13953 PROJECT NO.:
PAGE NO.: 1

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		18236.00									
Arsenic, Total	ug/l	0.042				BSC	06/12/90	15:00	0.200	102	0
Dinitrobutylphenol	ug/l	<30				SCP	06/12/90	10:00	200	92	8.9
Methylene Chloride	ug/l	<0.1				SCP	06/14/90	11:45	40	93	9.3
Toxaphene	ug/l	<0.24				SCP	06/11/90	08:20	25	101	12

SUPPLEMENTARY INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:
18236.00 GROUNDWATER MONITORING WELL 8

COLLECTION DATE/TIME:
06/07/90 06/07/90 10:30

CERTIFICATION:

Ray Hudnall
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical Services

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EPS Analytical Services
5360 I-55 North • Jackson, MS 39211 • Telephone (601) 956-1400 • FAX (601) 956-2365

LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM
LOCATION: VICKSBURG, MS 39180
DATE: 06/18/90
PROJECT LOCATION: VICKSBURG, MS.
COLLECTED BY: CLIENT
RECEIPT DATE: 06/08/90
REPORT NO.: 13954
PROJECT NO.:
PAGE NO.: 1

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		18237.00									
Arsenic, Total	ug/l	0.004				BSC	06/12/90	15:00	0.200	102	0
Dinitrobutylphenol	ug/l	<30				SCP	06/12/90	10:00	200	92	8.9
Methylene Chloride	ug/l	<0.1				SCP	06/14/90	11:45	40	93	9.3
Toxaphene	ug/l	<0.24				SCP	06/11/90	08:20	25	101	12

SUPPLEMENTARY INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:
18237.00 GROUNDWATER MONITORING WELL 9

COLLECTION DATE/TIME:
06/08/90 06/08/90 10:30

CERTIFICATION:

Ray Hudnall
Quality Assurance and Quality Control

Herbert A. Poholsky
Analytical Services

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EPS Analytical Services
5360 I-55 North • Jackson, MS 39211 • Telephone (601) 956-1400 • FAX (601) 956-2365

LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM DATE: 06/18/90
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS.
COLLECTED BY: CLIENT RECEIPT DATE: 06/08/90
REPORT NO.: 13955 PROJECT NO.:
PAGE NO.: 1

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		18238.00									
Arsenic, Total	ug/l	0.005				BSC	06/12/90	15:00	0.200	102	0
Nitrobutylphenol	ug/l	<30				SCP	06/12/90	10:00	200	92	8.9
Methylene Chloride	ug/l	<0.1				SCP	06/14/90	11:45	40	93	9.3
Toxaphene	ug/l	<0.24				SCP	06/11/90	08:20	25	101	12

SUPPLEMENTARY INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:
18238.00 GROUNDWATER MONITORING WELL 10

COLLECTION DATE/TIME:
06/08/90 06/08/90 08:40

CERTIFICATION:
Ray Hudnall
Quality Assurance and Quality Control
Herbert R. Johnston
Analytical Services

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EPS Analytical Services
5360 I-55 North • Jackson, MS 39211 • Telephone (601) 956-1400 • FAX (601) 956-2365

LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM
LOCATION: VICKSBURG, MS 39180
DATE: 06/18/90
PROJECT LOCATION: VICKSBURG, MS.
COLLECTED BY: CLIENT
RECEIPT DATE: 06/08/90
REPORT NO.: 13956
PROJECT NO.:
PAGE NO.: 1

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		18239.00									
Arsenic, Total	ug/l	0.004				BSC	06/12/90	15:00	0.200	102	0
[illegible]nitrobutylphenol	ug/l	<30				SCP	06/12/90	10:00	200	92	8.9
Methylene Chloride	ug/l	<0.1				SCP	06/14/90	11:45	40	93	9.3
Toxaphene	ug/l	<0.24				SCP	06/11/90	08:20	25	101	12

SUPPLEMENTARY INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:
18239.00 GROUNDWATER MONITORING WELL 11

COLLECTION DATE/TIME:
06/08/90 06/08/90 08:50

CERTIFICATION:

Ray Hudnall
Quality Assurance and Quality Control

Herbert R. Johnston
Analytical Services

This report applies only to the sample(s) analyzed. The liability of the laboratory is limited to the amount paid for the report by the client. The client assumes all liability for the further distribution of this report or its content and by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

EPS Analytical Services
5360 I-55 North • Jackson, MS 39211 • Telephone (601) 956-1400 • FAX (601) 956-2365

LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM DATE: 06/18/90
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS.
COLLECTED BY: CLIENT RECEIPT DATE: 06/08/90
REPORT NO.: 13957 PROJECT NO.:
PAGE NO.: 1

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION: ANALYST	DATE	TIME	BATCH QUALITY CONTROL: SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		18240.00									
Arsenic, Total	ug/l	0.008				BSC	06/12/90	15:00	0.200	102	0
Dinitrobutylphenol	ug/l	<30				SCP	06/12/90	10:00	200	92	8.9
Methylene Chloride	ug/l	<0.1				SCP	06/14/90	11:45	40	93	9.3
Toxaphene	ug/l	<0.24				SCP	06/11/90	08:20	25	101	12

SUPPLEMENTARY INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:
18240.00 GROUNDWATER MONITORING WELL 12

COLLECTION DATE/TIME:
06/08/90 06/08/90 09:00

CERTIFICATION:

Ray Hudnall
Quality Assurance and Quality Control

Herbert R. Johnston
Analytical Services

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EPS Analytical Services
5360 I-55 North • Jackson, MS 39211 • Telephone (601) 956-1400 • FAX (601) 956-2365

LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM DATE: 06/18/90
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS.
COLLECTED BY: CLIENT
RECEIPT DATE: 06/08/90
REPORT NO.: 13958 PAGE NO.: 1
PROJECT NO.:

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION: ANALYST	DATE	TIME	BATCH QUALITY CONTROL: SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		18241.00									
Arsenic, Total	mg/l	0.008				BSC	06/12/90	15:00	0.200	102	0
Dinitrobutylphenol	mg/l	<30				SCP	06/12/90	10:00	200	92	8.9
Methylene Chloride	mg/l	<0.1				SCP	06/14/90	11:45	40	93	9.3
Toxaphene	mg/l	<0.24				SCP	06/11/90	08:20	25	101	12

SUPPLEMENTARY INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:
18241.00 GROUNDWATER MONITORING WELL 13

COLLECTION DATE/TIME:
06/08/90 06/08/90 10:40

CERTIFICATION:

Ray Hudnall
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical Services

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EPS Analytical Services
5360 I-55 North • Jackson, MS 39211 • Telephone (601) 956-1400 • FAX (601) 956-2365

LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM DATE: 06/18/90
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS.
COLLECTED BY: CLIENT
RECEIPT DATE: 06/08/90
REPORT NO.: 13959 PAGE NO.: 1
PROJECT NO.:

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT	ANALYSIS INFORMATION: ANALYST	DATE	TIME	BATCH QUALITY CONTROL: SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		18242.00						
Arsenic, Total	ug/l	<0.003	BSC	06/12/90	15:00	0.200	102	0
Nitrobutylphenol	ug/l	<30	SCP	06/12/90	10:00	200	92	8.9
Methylene Chloride	ug/l	<0.1	SCP	06/14/90	11:45	40	93	9.3
Toxaphene	ug/l	<0.24	SCP	06/11/90	08:20	25	101	12

SUPPLEMENTARY INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:
18242.00 GROUNDWATER MONITORING WELL 14

COLLECTION DATE/TIME:
06/08/90 06/08/90 10:00

CERTIFICATION:

Ray Hudnall
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM
LOCATION: VICKSBURG, MS 39180
DATE: 06/18/90
PROJECT LOCATION: VICKSBURG, MS.
COLLECTED BY: CLIENT
RECEIPT DATE: 06/08/90
REPORT NO.: 13960
PROJECT NO.:
PAGE NO.: 1

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		18243.00									
Arsenic, Total	ug/l	<0.003				BSC	06/12/90	13:00	0.200	102	0
Nitrooctylphenol	ug/l	<30				SCP	06/12/90	10:00	200	92	8.9
Methylene Chloride	ug/l	<0.1				SCP	06/14/90	11:45	40	93	9.3
Toxaphene	ug/l	<0.24				SCP	06/11/90	08:20	25	101	12

SUPPLEMENTARY INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:
18243.00 GROUNDWATER MONITORING WELL 16

COLLECTION DATE/TIME:
06/08/90 06/08/90 10:20

CERTIFICATION:

Ray Hudnall
Quality Assurance and Quality Control

Herbert R. Johnston
Analytical Services

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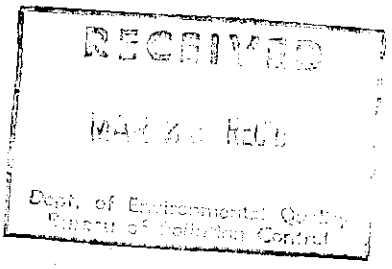
CEDAR CHEMICAL CORPORATION

24th Floor • 5100 Poplar Avenue • Memphis, TN 38137 • 901-685-5348

REPLY TO: P.O. BOX 3
VICKSBURG, MS 39181
(601) 636-1231



CERTIFIED MAIL
RETURN RECEIPT REQUESTED
P 850 518 310

Mr. Toby Cook
Environmental Engineer
Mississippi Department of Environmental Quality
Bureau of Pollution Control
2380 Highway 80 West
Jackson, MS 39204

March 23, 1990

Re: Cedar Chemical Corporation
Groundwater Monitoring, 1st Quarter, 1990

Dear Mr. Cook:

Please find enclosed copies of the results of the 1st Quarter Groundwater Monitoring analyses required by DEQ Commission Order 1253 87.

If there are any questions concerning this matter, please contact me.

Sincerely,

Steven T. Boswell
Director of Env. Affairs

STB: pc

xc: Mr. Ahlers
Mr. Madsen

DIVISION OF SOLID WASTE
REVIEWED BY TC
DATE 3/26/90
COMMENTS Copy sent to EPA

Cedar Chemical Corporation
Vicksburg Chemical Division
February 19, 1990
Groundwater Elevations

Well No.	Water Elevation
1A	107.63
2	101.25
4	108.18
5	89.00
6	90.70
7	94.18
8	103.89
9	111.96
10	108.50
11	97.89
12	110.55
13	109.87
14	107.28
16	109.64

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEMDATE: 03/14/90 COLLECTED BY: CLIENT REPORT NO.: 12173 PAGE NO.: 1
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS RECEIPT DATE: 03/06/90 PROJECT NO.:

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		16160.00									
Arsenic, Total	ug/l	<0.003				BSC	03/13/90	14:00	0.200	104	0
Di[redacted]obutylphenol	ug/l	371				SCP	03/08/90	10:00	200	80	NA
Methylene Chloride	ug/l	<0.1				SCP	03/13/90	09:50	40	96	NA
Toxaphene	ug/l	<0.24				SCP	03/12/90	11:30	25	114	NA

S[redacted]LEMENTARY INFORMATION:
[redacted]alysis conducted in accordance with 40 CFR Part 136,1986 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION:
16160.00 GROUNDWATER MONITORING WELL SAMPLE #1A

COLLECTION DATE/TIME:
03/05/90 03/05/90 11:30

CERTIFICATION:

John Broussard
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM DATE: 03/14/90
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS
COLLECTED BY: CLIENT RECEIPT DATE: 03/06/90
REPORT NO.: 12174 PROJECT NO.:
PAGE NO.: 1

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		16161.00									
Arsenic, Total	mg/l	<0.003				BSC	03/13/90	14:00	0.200	104	0
Di[redacted]obutylphenol	ug/l	<30				SCP	03/08/90	10:00	200	80	NA
Methylene Chloride	ug/l	<0.1				SCP	03/13/90	09:50	40	96	NA
Toxaphene	ug/l	<0.24				SCP	03/12/90	11:30	25	114	NA

S[redacted]LEMENTARY INFORMATION:
[redacted]lysis conducted in accordance with 40 CFR Part 136,1986 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION:
16161.00 GROUNDWATER MONITORING WELL SAMPLE #2

COLLECTION DATE/TIME:
03/06/90 03/06/90 11:00

CERTIFICATION:
Quality Assurance and Quality Control
Analytical Services

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EPS Analytical Services
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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM DATE: 03/14/90
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS
COLLECTED BY: CLIENT RECEIPT DATE: 03/06/90
REPORT NO.: 12175 PROJECT NO.:
PAGE NO.: 1

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		16162.00									
Arsenic, Total	ug/l	<0.003				BSC	03/13/90	14:00	0.200	104	0
Dinitrobutylphenol	ug/l	<30				SCP	03/08/90	10:00	200	80	NA
Methylene Chloride	ug/l	<0.1				SCP	03/13/90	09:50	40	96	NA
Toxaphene	ug/l	<0.24				SCP	03/12/90	11:30	25	114	NA

SUPPLEMENTARY INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1986 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION:
16162.00 GROUNDWATER MONITORING WELL SAMPLE # 4
STB

COLLECTION DATE/TIME:
03/06/90 03/06/90 10:35

CERTIFICATION:
John Broumard
Quality Assurance and Quality Control
Herbert R. Johnston
Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 03/14/90
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS
COLLECTED BY: CLIENT RECEIPT DATE: 03/06/90
REPORT NO.: 12176 PROJECT NO.:
PAGE NO.: 1

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		16163.00									
Arsenic, Total	mg/l	<0.003				BSC	03/13/90	14:00	0.200	104	0
Din[redacted]butylphenol	ug/l	<30				SCP	03/08/90	10:00	200	80	NA
Methylene Chloride	ug/l	<0.1				SCP	03/13/90	09:50	40	96	NA
Toxaphene	ug/l	<0.24				SCP	03/12/90	11:30	25	114	NA

SU[redacted]EMENTARY INFORMATION:
A[redacted]ysis conducted in accordance with 40 CFR Part 136,1986 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION:
16163.00 GROUNDWATER MONITORING WELL SAMPLE #5

COLLECTION DATE/TIME:
03/05/90 03/05/90 03:00

CERTIFICATION:

Quality Assurance and Quality Control

Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM DATE: 03/14/90 COLLECTED BY: CLIENT REPORT NO.: 12177 PAGE NO.: 1
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS RECEIPT DATE: 03/06/90 PROJECT NO.:

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		16164.00									
Arsenic, Total	mg/l	0.005				BSC	03/13/90	14:00	0.200	104	0
Dini[redacted]utylphenol	µg/l	<30				SCP	03/08/90	10:00	200	80	NA
Methylene Chloride	µg/l	<0.1				SCP	03/13/90	09:50	40	96	NA
Toxaphene	µg/l	<0.24				SCP	03/12/90	11:30	25	114	NA

SU[redacted]EMENTARY INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1986 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION: 16164.00 GROUNDWATER MONITORING WELL SAMPLE #6

COLLECTION DATE/TIME: 03/05/90 03/05/90 03:15

CERTIFICATION:

John Broussard
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 03/14/90
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS
COLLECTED BY: CLIENT RECEIPT DATE: 03/06/90
REPORT NO.: 12178 PROJECT NO.:
PAGE NO.: 1

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		16165.00									
Arsenic, Total	mg/l	0.011				BSC	03/13/90	14:00	0.200	104	0
Dini[redacted]utylphenol	ug/l	<30				SCP	03/08/90	10:00	200	80	NA
Methylene Chloride	ug/l	<0.1				SCP	03/13/90	09:50	40	96	NA
Toxaphene	ug/l	<0.24				SCP	03/12/90	11:30	25	114	NA

SU[redacted]EMENTARY INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1986 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION:
16165.00 GROUNDWATER MONITORING WELL SAMPLE #7

COLLECTION DATE/TIME:
03/05/90 03/05/90 03:30

CERTIFICATION:

John Broussard
Quality Assurance and Quality Control

Herbert R. Johnston
Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEMDATE: 03/14/90 COLLECTED BY: CLIENT REPORT NO.: 12179 PAGE NO.: 1
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS RECEIPT DATE: 03/06/90 PROJECT NO.:

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		16166.00									
Arsenic, Total	mg/l	0.040				BSC	03/13/90	14:00	0.200	104	0
Din[redacted]butylphenol	ug/l	<30				SCP	03/08/90	10:00	200	80	NA
Methylene Chloride	ug/l	<0.1				SCP	03/13/90	09:50	40	96	NA
Toxaphene	ug/l	<0.24				SCP	03/12/90	11:30	25	114	NA

SU[redacted]EMENTARY INFORMATION:
[redacted]ysis conducted in accordance with 40 CFR Part 136,1986 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION:
16166.00 GROUNDWATER MONITORING WELL SAMPLE #8

COLLECTION DATE/TIME:
03/05/90 03/05/90 02:49

CERTIFICATION:
John Broussard
Quality Assurance and Quality Control
Herbert R. Johnston
Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM DATE: 03/14/90 COLLECTED BY: CLIENT REPORT NO.: 12180 PAGE NO.: 1
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS RECEIPT DATE: 03/06/90 PROJECT NO.:

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		16167.00									
Arsenic, Total	mg/l	0.003				BSC	03/13/90	14:00	0.200	104	0
Dini[illegible]utylphenol	ug/l	<30				SCP	03/08/90	10:00	200	80	NA
Methylene Chloride	ug/l	<0.1				SCP	03/13/90	09:50	40	96	NA
Toxaphene	ug/l	<0.24				SCP	03/12/90	11:30	25	114	NA

SUPPLEMENTARY INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1986 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION: 16167.00 GROUNDWATER MONITORING WELL SAMPLE #9

COLLECTION DATE/TIME: 03/05/90 03/05/90 11:00

CERTIFICATION:

John Brouard
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 03/14/90 COLLECTED BY: CLIENT REPORT NO.: 12181 PAGE NO.: 1
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS RECEIPT DATE: 03/06/90 PROJECT NO.:

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		16168.00									
Arsenic, Total	ug/l	0.004				BSC	03/13/90	14:00	0.200	104	0
Dini utylphenol	ug/l	<30				SCP	03/08/90	10:00	200	80	NA
Methylene Chloride	ug/l	<0.1				SCP	03/13/90	09:50	40	96	NA
Toxaphene	ug/l	<0.24				SCP	03/12/90	11:30	25	114	NA

SU EMENTARY INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1986 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION:
16168.00 GROUNDWATER MONITORING WELL SAMPLE #10

COLLECTION DATE/TIME:
03/05/90 03/05/90 01:05

CERTIFICATION:

John Broussard
Quality Assurance and Quality Control

Herbert R. Johnston
Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEMDATE: 03/14/90
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS
COLLECTED BY: CLIENT
RECEIPT DATE: 03/06/90
REPORT NO.: 12182 PAGE NO.: 1
PROJECT NO.:

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		16169.00									
Arsenic, Total	mg/l	<0.003				BSC	03/13/90	14:00	0.200	104	0
[illegible]trobutylphenol	ug/l	<30				SCP	03/08/90	10:00	200	80	NA
Methylene Chloride	ug/l	<0.1				SCP	03/13/90	09:50	40	96	NA
Toxaphene	ug/l	<0.24				SCP	03/12/90	11:30	25	114	NA

SUPPLEMENTARY INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1986 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION:
16169.00 GROUNDWATER MONITORING WELL SAMPLE #11

COLLECTION DATE/TIME:
03/05/90 03/05/90 01:15

CERTIFICATION:

John Drummond
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM DATE: 03/14/90 COLLECTED BY: CLIENT REPORT NO.: 12183 PAGE NO.: 1
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS RECEIPT DATE: 03/06/90 PROJECT NO.:

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		16170.00									
Arsenic, Total	mg/l	0.006				BSC	03/13/90	14:00	0.200	104	0
Di[redacted]butylphenol	ug/l	<30				SCP	03/08/90	10:00	200	80	NA
Methylene Chloride	ug/l	<0.1				SCP	03/13/90	09:50	40	96	NA
Toxaphene	ug/l	<0.24				SCP	03/12/90	11:30	25	114	NA

SU[redacted]EMENTARY INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1986 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION: 16170.00 GROUNDWATER MONITORING WELL SAMPLE #12

COLLECTION DATE/TIME: 03/05/90 03/05/90 12:50

CERTIFICATION:

John Broussard
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical Services

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5360 I-55 North • Jackson, MS 39211 • Telephone (601) 956-1400 • FAX (601) 956-2365

LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 03/14/90 COLLECTED BY: CLIENT REPORT NO.: 12184 PAGE NO.: 1
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS RECEIPT DATE: 03/06/90 PROJECT NO.:

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		16171.00									
Arsenic, Total	mg/l	0.005				BSC	03/13/90	14:00	0.200	104	0
D[redacted]robutylphenol	ug/l	<30				SCP	03/08/90	10:00	200	80	NA
Methylene Chloride	ug/l	<0.1				SCP	03/13/90	09:50	40	96	NA
Toxaphene	ug/l	<0.24				SCP	03/12/90	11:30	25	114	NA

SUPPLEMENTARY INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1986 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION: 16171.00 GROUNDWATER MONITORING WELL SAMPLE #13

COLLECTION DATE/TIME: 03/05/90 03/05/90 11:40

CERTIFICATION:

John Broussard
Quality Assurance and Quality Control

Herbert B. Johnston
Analytical Services

This report applies only to the sample(s) analyzed. The liability of the lab[redacted] is limited to the amount paid for the report by the client. The client assumes all liability for the further distribution of this report or its content and [redacted]making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

EPS Analytical Services
5360 I-55 North • Jackson, MS 39211 • Telephone (601) 956-1400 • FAX (601) 956-2365

LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM DATE: 03/14/90
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS
COLLECTED BY: CLIENT RECEIPT DATE: 03/06/90
REPORT NO.: 12185 PROJECT NO.:
PAGE NO.: 1

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		16172.00									
Arsenic, Total	mg/l	0.003				BSC	03/13/90	14:00	0.200	104	0
[illegible]robutylphenol	ug/l	<30				SCP	03/08/90	10:00	200	80	NA
Methylene Chloride	ug/l	<0.1				SCP	03/13/90	09:50	40	96	NA
Toxaphene	ug/l	<0.24				SCP	03/12/90	11:30	25	114	NA

SUPPLEMENTARY INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1986 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION:
16172.00 GROUNDWATER MONITORING WELL SAMPLE #14

COLLECTION DATE/TIME:
03/05/90 03/05/90 11:20

CERTIFICATION:

John Broussard
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical Services

This report applies only to the sample(s) analyzed. The liability of the lab[illegible] is limited to the amount paid for the report by the client. The client assumes all liability for the further distribution of this report or its content and [illegible]laking such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

EPS Analytical Services
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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM DATE: 03/14/90 COLLECTED BY: CLIENT REPORT NO.: 12186 PAGE NO.: 1
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS RECEIPT DATE: 03/06/90 PROJECT NO.:

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		16173.00									
Arsenic, Total	mg/l	0.008				BSC	03/13/90	14:00	0.200	104	0
Di[illegible]obutylphenol	ug/l	<30				SCP	03/08/90	10:00	200	80	NA
Methylene Chloride	ug/l	<0.1				SCP	03/13/90	09:50	40	96	NA
Toxaphene	ug/l	<0.24				SCP	03/12/90	11:30	25	114	NA

S[illegible]LEMENTARY INFORMATION:
[illegible]lysis conducted in accordance with 40 CFR Part 136,1986 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION:
16173.00 GROUNDWATER MONITORING WELL SAMPLE #16

COLLECTION DATE/TIME:
03/05/90 03/05/90 11:30

CERTIFICATION:

John Brainard
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical Services

This report applies only to the sample(s) analyzed. The liability of the labor[illegible]s limited to the amount paid for the report by the client. The client assumes all liability for the further distribution of this report or its content and [illegible]king such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

CEDAR CHEMICAL CORPORATION

24th Floor • 5100 Poplar Avenue • Memphis, TN 38137 • 901-685-5348

REPLY TO: P.O. BOX 3
VICKSBURG, MS 39181
(601) 636-1231

CERTIFIED MAIL
RETURN RECEIPT REQUESTED
P 850 518 287

RECEIVED
NOV 29 1989
DEPT. OF NATURAL RESOURCE
BUREAU OF POLLUTION CONTROL

November 27, 1989

Mr. Toby Cook
Environmental Engineer
Bureau of Pollution Control
2380 Highway 80 West
Jackson, Mississippi 39209

Subject: Commission Order No. 1253 87
Condition No. 9, Groundwater Monitoring

Dear Mr. Cook:

Please find enclosed copies of the analytical reports and groundwater elevations for Cedar's groundwater monitoring for the fourth quarter of 1989.

If there are questions concerning this matter, please contact me.

Sincerely,

Steven T. Boswell

Steven T. Boswell
Director of Env. Affairs

STB: pc

bc: Mr. Ahlers
Mr. Madsen
Mr. Keen

DIVISION OF SOLID WASTE
REVIEWED BY TC
DATE 11/29/89
COMMENTS Copy sent to EPA

Cedar Chemical Corporation, Vicksburg Chemical Division

Groundwater Sampling, November 6, 1989

Well No.	Water Level
1A	104.4′
2	95.4′
4	104.6′
5	83.3′
6	85.0′
7	88.6′
8	100.4′
9	108.5′
10	105.0′
11	95.3′
12	106.8′
13	106.9′
14	104.1′
16	106.6′

EPS Analytical Services
5360 I-55 North • Jackson, MS 39211 • Telephone (601) 956-1400 • FAX (601) 956-2365

LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM
LOCATION: VICKSBURG, MS 39180
DATE: 11/22/89
PROJECT LOCATION: VICKSBURG, MS
COLLECTED BY: CLIENT
RECEIPT DATE: 11/15/89
REPORT NO.: 10212
PROJECT NO.:
PAGE NO.: 1

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION: ANALYST	DATE	TIME	BATCH QUALITY CONTROL: SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		13823.00									
Arsenic, Total	mg/l	<0.003				BSC	11/21/89	07:15	0.200	98	0
initrobutylphenol	ug/l	504				SCP	11/20/89	13:00	NA	NA	NA
Methylene Chloride	ug/l	<0.1				SCP	11/21/89	07:20	40	95	NA
Toxaphene	ug/l	<0.24				SCP	11/20/89	12:00	50	77	5.6

RECEIVED
NOV 29 1989
DEPT. OF NATURAL RESOURCE
BUREAU OF POLLUTION CONTROL

SUPPLEMENTARY INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1986 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION:
13823.00 GROUNDWATER MONITORING WELL 1A

COLLECTION DATE/TIME:
11/11/89 11/11/89 UNK

CERTIFICATION:
John Broussard
Quality Assurance and Quality Control
Herbert A. Johnston
Analytical Services

This report applies only to the sample(s) analyzed. The liability of the laboratory is limited to the amount paid for the report by the client. The client assumes all liability for the further distribution of this report or its contents by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

Analytical Services
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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 11/22/89 COLLECTED BY: CLIENT REPORT NO.: 10213 PAGE NO.: 1
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS RECEIPT DATE: 11/15/89 PROJECT NO.:

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		13824.00									
Arsenic, Total	mg/l	<0.003				BSC	11/21/89	07:15	0.200	98	0
Dinitrobutylphenol	ug/l	<30				SCP	11/20/89	13:00	NA	NA	NA
Methylene Chloride	ug/l	<0.1				SCP	11/21/89	07:20	40	95	NA
Toxaphene	ug/l	<0.24				SCP	11/20/89	12:00	50	77	5.6

SUPPLEMENTARY INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1986 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION: 13824.00 GROUNDWATER MONITORING WELL 2

COLLECTION DATE/TIME: 11/12/89 11/12/89 UNK

CERTIFICATION:

John Bowman
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 11/22/89 COLLECTED BY: CLIENT REPORT NO.: 10214 PAGE NO.: 1
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS RECEIPT DATE: 11/15/89 PROJECT NO.:

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		13825.00									
Arsenic, Total	mg/l	<0.003				BSC	11/21/89	07:15	0.200	98	0
Dinitrobutylphenol	ug/l	<30				SCP	11/20/89	13:00	NA	NA	NA
Methylene Chloride	ug/l	<0.1				SCP	11/21/89	07:20	40	95	NA
Toxaphene	ug/l	<0.24				SCP	11/20/89	12:00	50	77	5.6

SUPPLEMENTARY INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1986 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION: 13825.00 GROUNDWATER MONITORING WELL 4

COLLECTION DATE/TIME: 11/14/89 11/14/89 UNK

CERTIFICATION:

John Bouchard
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 11/22/89 COLLECTED BY: CLIENT REPORT NO.: 10215 PAGE NO.: 1
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS RECEIPT DATE: 11/15/89 PROJECT NO.:

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		13826.00									
Arsenic, Total	mg/l	<0.003				BSC	11/21/89	07:15	0.200	98	0
initrobutylphenol	ug/l	<30				SCP	11/20/89	13:00	NA	NA	NA
Methylene Chloride	ug/l	<0.1				SCP	11/21/89	07:20	40	95	NA
Toxaphene	ug/l	<0.24				SCP	11/20/89	12:00	50	77	5.6

SUPPLEMENTARY INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1986 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION: 13826.00 GROUNDWATER MONITORING WELL 5

COLLECTION DATE/TIME: 11/13/89 11/13/89 UNK

CERTIFICATION:

John Broussard
Quality Assurance and Quality Control

Herbert R. Johnston
Analytical Services

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EPS Analytical Services
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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM DATE: 11/22/89 COLLECTED BY: CLIENT REPORT NO.: 10216 PAGE NO.: 1
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS RECEIPT DATE: 11/15/89 PROJECT NO.:

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		13827.00									
Arsenic, Total	mg/l	<0.003				BSC	11/21/89	07:15	0.200	98	0
Dinitrobutylphenol	ug/l	<30				SCP	11/20/89	13:00	NA	NA	NA
Methylene Chloride	ug/l	<0.1				SCP	11/21/89	07:20	40	95	NA
Toxaphene	ug/l	<0.24				SCP	11/20/89	12:00	50	77	5.6

SUPPLEMENTARY INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1986 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION: 13827.00 GROUNDWATER MONITORING WELL 6

COLLECTION DATE/TIME: 11/13/89 11/13/89 UNK

CERTIFICATION:

John Bowman
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical Services

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EPS Analytical Services
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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 11/22/89 COLLECTED BY: CLIENT REPORT NO.: 10217 PAGE NO.: 1
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS RECEIPT DATE: 11/15/89 PROJECT NO.:

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		13828.00									
Arsenic, Total	mg/l	0.008				BSC	11/21/89	07:15	0.200	98	0
Dinitrobutylphenol	ug/l	<30				SCP	11/20/89	13:00	NA	NA	NA
Methylene Chloride	ug/l	<0.1				SCP	11/21/89	07:20	40	95	NA
Toxaphene	ug/l	<0.24				SCP	11/20/89	12:00	50	77	5.6

SUPPLEMENTARY INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1986 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION: 13828.00 GROUNDWATER MONITORING WELL 7

COLLECTION DATE/TIME: 11/13/89 11/13/89 UNK

CERTIFICATION:

John Broussard
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical Services

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EPS Analytical Services
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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 11/22/89 COLLECTED BY: CLIENT REPORT NO.: 10218 PAGE NO.: 1
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS RECEIPT DATE: 11/15/89 PROJECT NO.:

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		13829.00									
Arsenic, Total	mg/l	0.033				BSC	11/21/89	07:15	0.200	98	0
initrobutylphenol	ug/l	<30				SCP	11/20/89	13:00	NA	NA	NA
Methylene Chloride	ug/l	<0.1				SCP	11/21/89	07:20	40	95	NA
Toxaphene	ug/l	<0.24				SCP	11/20/89	12:00	50	77	5.6

SUPPLEMENTARY INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1986 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION: 13829.00 GROUNDWATER MONITORING WELL 8

COLLECTION DATE/TIME: 11/13/89 11/13/89 UNK

CERTIFICATION:

John Brasuell
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical Services

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EPS Analytical Services
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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 11/22/89 COLLECTED BY: CLIENT REPORT NO.: 10219 PAGE NO.: 1
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS RECEIPT DATE: 11/15/89 PROJECT NO.:

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT	ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
			ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		13830.00						
Arsenic, Total	mg/l	<0.003	BSC	11/21/89	07:15	0.200	98	0
nitrobutylphenol	ug/l	<30	SCP	11/20/89	13:00	NA	NA	NA
Methylene Chloride	ug/l	<0.1	SCP	11/21/89	07:20	40	95	NA
Toxaphene	ug/l	<0.24	SCP	11/20/89	12:00	50	77	5.6

SUPPLEMENTARY INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1986 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION: 13830.00 GROUNDWATER MONITORING WELL 9

COLLECTION DATE/TIME: 11/12/89 11/12/89 UNK

CERTIFICATION:

John Broussard
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical Services

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Analytical Services
5360 I-55 North • Jackson, MS 39211 • Telephone (601) 956-1400 • FAX (601) 956-2365

LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 11/22/89 COLLECTED BY: CLIENT REPORT NO.: 10220 PAGE NO.: 1
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS RECEIPT DATE: 11/15/89 PROJECT NO.:

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		13831.00									
Arsenic, Total	mg/l	0.005				BSC	11/21/89	07:15	0.200	98	0
nitrobutylphenol	ug/l	<30				SCP	11/20/89	13:00	NA	NA	NA
Methylene Chloride	ug/l	<0.1				SCP	11/21/89	07:20	40	95	NA
Toxaphene	ug/l	<0.24				SCP	11/20/89	12:00	50	77	5.6

UPPLEMENTARY INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1986 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION:
13831.00 GROUNDWATER MONITORING WELL 10

COLLECTION DATE/TIME:
UNKNOWN UNKNOWN UNK

CERTIFICATION:
Quality Assurance and Quality Control
Analytical Services

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Analytical Services
5360 I-55 North • Jackson, MS 39211 • Telephone (601) 956-1400 • FAX (601) 956-2365

LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 11/22/89 COLLECTED BY: CLIENT REPORT NO.: 10221 PAGE NO.: 1
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS RECEIPT DATE: 11/15/89 PROJECT NO.:

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		13832.00									
Arsenic, Total	mg/l	<0.003				BSC	11/21/89	07:15	0.200	98	0
itrobutylphenol	ug/l	<30				SCP	11/20/89	13:00	NA	NA	NA
Methylene Chloride	ug/l	<0.1				SCP	11/21/89	07:20	40	95	NA
Toxaphene	ug/l	<0.24				SCP	11/20/89	12:00	50	77	5.6

PPLEMENTARY INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1986 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION: 13832.00 GROUNDWATER MONITORING WELL 11

COLLECTION DATE/TIME: 11/11/89 11/11/89 UNK

CERTIFICATION:

John Bournard
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical Services

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EPS Analytical Services
5360 I-55 North • Jackson, MS 39211 • Telephone (601) 956-1400 • FAX (601) 956-2365

LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 11/22/89 COLLECTED BY: CLIENT REPORT NO.: 10222 PAGE NO.: 1
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS RECEIPT DATE: 11/15/89 PROJECT NO.:

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		13833.00									
Arsenic, Total	mg/l	0.009				BSC	11/21/89	07:15	0.200	98	0
nitrobutylphenol	ug/l	<30				SCP	11/20/89	13:00	NA	NA	NA
Methylene Chloride	ug/l	<0.1				SCP	11/21/89	07:20	40	95	NA
Toxaphene	ug/l	<0.24				SCP	11/20/89	12:00	50	77	5.6

SUPPLEMENTARY INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1986 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION:
13833.00 GROUNDWATER MONITORING WELL 12

COLLECTION DATE/TIME:
11/11/89 11/11/89 UNK

CERTIFICATION:

John Brouard
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical Services

This report applies only to the sample(s) analyzed. The liability of the laboratory is limited to the amount paid for the report by the client. The client assumes all liability for the further distribution of this report or its content by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

EPS Analytical Services
5360 I-55 North • Jackson, MS 39211 • Telephone (601) 956-1400 • FAX (601) 956-2365

LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM DATE: 11/22/89 COLLECTED BY: CLIENT REPORT NO.: 10232 PAGE NO.: 1
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS RECEIPT DATE: 11/15/89 PROJECT NO.:

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		13834.00									
Arsenic, Total	mg/l	<0.003				BSC	11/21/89	07:15	0.200	98	0
trobutylphenol	ug/l	<30				SCP	11/20/89	13:00	NA	NA	NA
Methylene Chloride	ug/l	<0.1				SCP	11/21/89	07:20	40	95	NA
Toxaphene	ug/l	<0.24				SCP	11/20/89	12:00	50	77	5.6

PPLEMENTARY INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1986 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION: 13834.00 GROUNDWATER MONITORING WELL 13

COLLECTION DATE/TIME: 11/12/89 11/12/89 UNK

CERTIFICATION:

John Brouard
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical Services

This report applies only to the sample(s) analyzed. The liability of the la y is limited to the amount paid for the report by the client. The client assumes all liability for the further distribution of this report or its content a making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

EPS Analytical Services
5360 I-55 North • Jackson, MS 39211 • Telephone (601) 956-1400 • FAX (601) 956-2365

LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 11/22/89 COLLECTED BY: CLIENT REPORT NO.: 10233 PAGE NO.: 1
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS RECEIPT DATE: 11/15/89 PROJECT NO.:

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		13835.00									
Arsenic, Total	mg/l	<0.003				BSC	11/21/89	07:15	0.200	98	0
trobutylphenol	ug/l	<30				SCP	11/20/89	13:00	NA	NA	NA
Methylene Chloride	ug/l	<0.1				SCP	11/21/89	07:20	40	95	NA
Toxaphene	ug/l	<0.24				SCP	11/20/89	12:00	50	77	5.6

PPLEMENTARY INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1986 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION: 13835.00 GROUNDWATER MONITORING WELL 14

COLLECTION DATE/TIME: 11/11/89 11/11/89 UNK

CERTIFICATION:

John Broussard
Quality Assurance and Quality Control

Herbert B. Johnston
Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 11/22/89 COLLECTED BY: CLIENT REPORT NO.: 10234 PAGE NO.: 1
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS RECEIPT DATE: 11/15/89 PROJECT NO.:

ANALYTE	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		13836.00									
Arsenic, Total	mg/l	0.005				BSC	11/21/89	07:15	0.200	98	0
trobutylphenol	ug/l	<30				SCP	11/20/89	13:00	NA	NA	NA
Methylene Chloride	ug/l	<0.1				SCP	11/21/89	07:20	40	95	NA
Toxaphene	ug/l	<0.24				SCP	11/20/89	12:00	50	77	5.6

PPLEMENTARY INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1986 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION: 13836.00 GROUNDWATER MONITORING WELL 16

COLLECTION DATE/TIME: 11/12/89 11/12/89 UNK

CERTIFICATION:

John Broussard
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical Services

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CEDAR CHEMICAL CORPORATION

24th Floor • 5100 Poplar Avenue • Memphis, TN 38137 • 901-685-5348

REPLY TO: P.O. BOX 3
VICKSBURG, MS 39181
(601) 636-1231

RECEIVED
OCT 26 1989
DEPT. OF NATURAL RESOURCE
BUREAU OF POLLUTION CONTROL

HAND DELIVERED

October 26, 1989

Mr. Toby Cook
Environmental Engineer
Bureau of Pollution Control
2380 Highway 80 West
Jackson, Mississippi 39209

Subject: Commission Order No. 1253 87
Condition No. 9, Groundwater Monitoring

Dear Mr. Cook:

Please find enclosed copies of the analytical reports and groundwater elevations for Cedar's groundwater monitoring for the third quarter of 1989.

If there are questions concerning this matter, please contact me.

Sincerely,

Steven T. Boswell

Steven T. Boswell
Director of Env. Affairs

STB: pc

DIVISION OF SOLID WASTE
REVIEWED BY TC
DATE 10/30/89
COMMENTS Copy sent to EPA

Cedar Chemical Corporation, Vicksburg Chemical Division

Groundwater Sampling, September 19-20, 1989

Well No.	Water Level
1A	104.7′
2	96.1′
4	106.0′
5	83.6′
6	85.6′
7	90.1′
8	101.4′
9	109.6′
10	106.4′
11	95.2′
12	107.4′
13	107.7′
14	107.4′
16	107.6′

ENVIRONMENTAL PROTECTION SYSTEMS

P.O. Box 20382 • 165 Upton Drive • Jackson, MS 39209 • Telephone (601) 922-8242 • FAX (601) 922-9163

LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM DATE: 10/25/89 COLLECTED BY: CLIENT REPORT NO.: 9288 PAGE NO.: 1

LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS RECEIPT DATE: 09/21/89 PROJECT NO.:

TEST RESULTS	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		12477.00									
Arsenic, Total	mg/l	<0.003				BSC	10/19/89	12:00	0.200	102	0
[illegible]ylphenol	ug/l	283				SCP	10/23/89	14:21	100	60	13
Methylene Chloride	ug/l	<0.1				SCP	10/23/89	13:31	40	89	0
Toxaphene	ug/l	<0.24				SCP	10/21/89	18:03	0.5	NA	0

SUPPLEMENT INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1986 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION:

12477.00 GROUNDWATER MONITORING WELL #1A

COLLECTION DATE/TIME:

09/20/89 09/20/89 03:00

CERTIFICATION:

Quality Assurance and Quality Control

Analytical and Bio-Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM DATE: 10/25/89
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS
COLLECTED BY: CLIENT RECEIPT DATE: 09/21/89
REPORT NO.: 9289 PROJECT NO.:
PAGE NO.: 1

TEST RESULTS	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		12478.00									
Arsenic, Total	mg/l	<0.003				BSC	10/19/89	12:00	0.200	102	0
[redacted]robutylphenol	ug/l	<30				SCP	10/23/89	14:21	100	60	13
Methylene Chloride	ug/l	<0.1				SCP	10/20/89	09:24	40	104	0
Toxaphene	ug/l	<0.24				SCP	10/21/89	18:03	0.5	NA	0

[redacted]PLEMENT INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1986 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION:
12478.00 GROUNDWATER MONITORING WELL #2

COLLECTION DATE/TIME:
09/20/89 09/20/89 03:50

CERTIFICATION:

John Broussard
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical and Bio-Analytical Services

This [redacted] applies only to the sample investigated and is not necessarily indi[redacted] of the quality of apparently identical or similar samples. The liabilit[redacted]e labora[redacted] is limited to the amount paid for the report by the client. The client a[redacted]mes all liability for the further distribution of this report or its content a[redacted] by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM DATE: 10/25/89
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS
COLLECTED BY: CLIENT RECEIPT DATE: 09/21/89
REPORT NO.: 9290 PROJECT NO.:
PAGE NO.: 1

TEST RESULTS	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION: ANALYST	DATE	TIME	BATCH QUALITY CONTROL: SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		12479.00									
Arsenic, Total	mg/l	<0.003				BSC	10/19/89	12:00	0.200	102	0
[redacted]rabutylphenol	ug/l	<30				SCP	10/23/89	14:21	100	60	13
Methylene Chloride	ug/l	<0.1				SCP	10/20/89	09:24	40	104	0
Tuene[redacted]	ug/l	<0.24				SCP	10/21/89	18:03	0.5	NA	0

SUPPLEMENT INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1986 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION:
12479.00 GROUNDWATER MONITORING WELL #4

COLLECTION DATE/TIME:
09/19/89 09/19/89 11:20

CERTIFICATION:

John Broumand
Quality Assurance and Quality Control

Herbert R. Johnston
Analytical and Bio-Analytical Services

This [redacted] applies only to the sample investigated and is not necessarily indi[redacted] of the quality of apparently identical or similar samples. The liability [redacted]e labora[redacted] is limited to the amount paid for the report by the client. The client a[redacted]mes all liability for the further distribution of this report or its content a[redacted] by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM DATE: 10/25/89 COLLECTED BY: CLIENT REPORT NO.: 9291 PAGE NO.: 1

LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS RECEIPT DATE: 09/21/89 PROJECT NO.:

TEST RESULTS	UNITS	LABORATORY RESULTS				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
		REGULATORY LIMIT				ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOS NUMBER:		12480.00									
Arsenic, Total	mg/l	<0.003				SSC	10/19/89	12:00	0.200	102	0
[redacted]robutyl Phenol	ug/l	<30				SCP	10/23/89	14:21	100	60	13
Methylene Chloride	ug/l	<0.1				SCP	10/23/89	13:31	40	89	0
Toxaphene	ug/l	<0.24				SCP	10/21/89	18:03	0.5	NA	0

[redacted]PLEMENT INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1986 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION:

12480.00 GROUNDWATER MONITORING WELL #5

COLLECTION DATE/TIME:

09/19/89 09/19/89 10:55

CERTIFICATION:

John Broussard
Quality Assurance and Quality Control

Herbert C. Johnston
Analytical and Bio-Analytical Services

This [redacted] applies only to the sample investigated and is not necessarily indi[redacted] of the quality of apparently identical or similar samples. The liabilit[redacted]e labora[redacted] is limited to the amount paid for the report by the client. The client a[redacted]mes all liability for the further distribution of this report or its content a[redacted] by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

ENVIRONMENTAL PROTECTION SYSTEMS

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM DATE: 10/25/89
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS
COLLECTED BY: CLIENT RECEIPT DATE: 09/21/89
REPORT NO.: 9292 PROJECT NO.:
PAGE NO.: 1

TEST RESULTS	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION: ANALYST	DATE	TIME	BATCH QUALITY CONTROL: SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		12481.00									
Arsenic, Total	mg/l	<0.003				BSC	10/19/89	12:00	0.200	102	0
[illegible]chlorobiphenyl	ug/l	<30				SCP	10/23/89	14:21	100	60	13
Methylene Chloride	ug/l	<0.1				SCP	10/20/89	09:24	40	104	0
Toxaphene	ug/l	<0.24				SCP	10/21/89	18:03	0.5	NA	0

SUPPLEMENT INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1986 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clear Water Act."

SAMPLE DESCRIPTION:
12481.00 GROUNDWATER MONITORING WELL #6

COLLECTION DATE/TIME:
09/19/89 09/19/89 11:00

CERTIFICATION:

John Broussard
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical and Bio-Analytical Services

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ENVIRONMENTAL PROTECTION SYSTEMS

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM DATE: 10/25/89 COLLECTED BY: CLIENT REPORT NO.: 9293 PAGE NO.: 1

LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS RECEIPT DATE: 09/21/89 PROJECT NO.:

TEST RESULTS	UNITS	LABORATORY RESULTS				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
		REGULATORY LIMIT				ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		12482.00									
Arsenic, Total	mg/l	<0.003				BSC	10/19/89	12:00	0.200	102	0
[redacted]robutylphenol	ug/l	<30				SCP	10/23/89	14:21	100	60	13
Methylene Chloride	ug/l	<0.1				SCP	10/20/89	09:24	40	104	0
[redacted]xaphene	ug/l	<0.24				SCP	10/21/89	18:03	0.5	NA	0

SUPPLEMENT INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1986 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION: 12482.00 GROUNDWATER MONITORING WELL #7

COLLECTION DATE/TIME: 09/19/89 09/19/89 11:10

CERTIFICATION:

John Broussard
Quality Assurance and Quality Control

Herbert C. Johnston
Analytical and Bio-Analytical Services

This [redacted] applies only to the sample investigated and is not necessarily indic[redacted] of the quality of apparently identical or similar samples. The liability [redacted]e laborat[redacted] is limited to the amount paid for the report by the client. The client a[redacted]mes all liability for the further distribution of this report or its content and by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

ENVIRONMENTAL PROTECTION SYSTEMS

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM
DATE: 10/25/89
COLLECTED BY: CLIENT
REPORT NO.: 9294
PAGE NO.: 1
LOCATION: VICKSBURG, MS 39180
PROJECT LOCATION: VICKSBURG, MS
RECEIPT DATE: 09/21/89
PROJECT NO.:

TEST RESULTS	UNITS	LABORATORY RESULTS				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
		REGULATORY LIMIT				ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		12483.00									
Arsenic, Total	mg/l	<0.003				BSC	10/19/89	12:00	0.200	102	0
[redacted]-nonylphenol	ug/l	<30				SCP	10/23/89	14:21	100	60	13
Methylene Chloride	ug/l	<0.1				SCP	10/20/89	09:24	40	104	0
Toxaphene	ug/l	<0.24				SCP	10/21/89	18:03	0.5	NA	0

SUPPLEMENT INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1986 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION:
12483.00 GROUNDWATER MONITORING WELL #8

COLLECTION DATE/TIME:
09/19/89 09/19/89 10:20

CERTIFICATION:

John Broussard
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical and Bio-Analytical Services

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ENVIRONMENTAL PROTECTION SYSTEMS

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM
LOCATION: VICKSBURG, MS 39180
DATE: 10/25/89
PROJECT LOCATION: VICKSBURG, MS
COLLECTED BY: CLIENT
RECEIPT DATE: 09/21/89
REPORT NO.: 9295
PROJECT NO.:
PAGE NO.: 1

TEST RESULTS	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		12484.00									
Arsenic, Total	mg/l	<0.003				BSC	10/19/89	12:00	0.200	102	0
[illegible]terbutylphenol	ug/l	<30				SCP	10/23/89	14:21	100	60	13
Methylene Chloride	ug/l	<0.1				SCP	10/20/89	09:24	40	104	0
Toxaphene	ug/l	<0.24				SCP	10/21/89	18:03	0.5	NA	0

SUPPLEMENT INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1986 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION:
12484.00 GROUNDWATER MONITORING WELL #9

COLLECTION DATE/TIME:
09/20/89 09/20/89 02:45

CERTIFICATION:

John Broussard
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical and Bio-Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM
LOCATION: VICKSBURG, MS 39180
DATE: 10/25/89
PROJECT LOCATION: VICKSBURG, MS
COLLECTED BY: CLIENT
RECEIPT DATE: 09/21/89
REPORT NO.: 9296
PROJECT NO.:
PAGE NO.: 1

TEST RESULTS	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		12485.00									
Arsenic, Total	mg/l	<0.003				BSC	10/19/89	12:00	0.200	102	0
[illegible]chlorobenzene	ug/l	<30				SCP	10/23/89	14:21	100	60	13
Methylene Chloride	ug/l	<0.1				SCP	10/20/89	09:24	40	104	0
Toxaphene	ug/l	<0.24				SCP	10/21/89	18:03	0.5	NA	0

SUPPLEMENT INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1986 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION:
12485.00 GROUNDWATER MONITORING WELL #10

COLLECTION DATE/TIME:
09/19/89 09/19/89 10:35

CERTIFICATION:

John Broussard
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical and Bio-Analytical Services

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ENVIRONMENTAL PROTECTION SYSTEMS

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM DATE: 10/25/89 COLLECTED BY: CLIENT REPORT NO.: 9297 PAGE NO.: 1
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS RECEIPT DATE: 09/21/89 PROJECT NO.:

TEST RESULTS	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		12486.00									
Arsenic, Total	mg/l	0.003				BSC	10/19/89	12:00	0.200	102	0
Pentachlorophenol	ug/l	<30				SCP	10/23/89	14:21	100	60	13
Methylene Chloride	ug/l	<0.1				SCP	10/23/89	13:31	40	99	0
Toxaphene	ug/l	<0.24				SCP	10/21/89	18:03	0.5	NA	0

SUPPLEMENT INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1986 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION:
12486.00 GROUNDWATER MONITORING WELL #11

COLLECTION DATE/TIME:
09/20/89 09/20/89 03:25

CERTIFICATION:

John Broussard
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical and Bio-Analytical Services

This report applies only to the sample investigated and is not necessarily indicative of the quality of apparently identical or similar samples. The liability of the laboratory is limited to the amount paid for the report by the client. The client assumes all liability for the further distribution of this report or its content and by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

ENVIRONMENTAL PROTECTION SYSTEMS

P.O. Box 20382 • 165 Upton Drive • Jackson, MS 39209 • Telephone (601) 922-8242 • FAX (601) 922-9163

LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM
LOCATION: VICKSBURG, MS 39180
DATE: 10/25/89
PROJECT LOCATION: VICKSBURG, MS
COLLECTED BY: CLIENT
RECEIPT DATE: 09/21/89
REPORT NO.: 9298
PROJECT NO.:
PAGE NO.: 1

TEST RESULTS	UNITS	LABORATORY RESULTS	ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
		REGULATORY LIMIT	ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		12487.00						
Arsenic, Total	mg/l	<0.003	BSC	10/19/89	12:00	0.200	102	0
[redacted]robutylphenol	ug/l	<30	SCP	10/23/89	14:21	100	60	13
Methylene Chloride	ug/l	<0.1	SCP	10/23/89	13:31	40	89	9
Toxaphene	ug/l	<0.24	SCP	10/21/89	19:03	0.5	NA	0

[redacted]PLEMENT INFORMATION:
nalysis conducted in accordance with 40 CFR Part 136,1986 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION:
12487.00 GROUNDWATER MONITORING WELL #12

COLLECTION DATE/TIME:
09/19/89 09/19/89 10:30

CERTIFICATION:

Quality Assurance and Quality Control

Analytical and Bio-Analytical Services

This [redacted] applies only to the sample investigated and is not necessarily indi[redacted] of the quality of apparently identical or similar samples. The liabilit[redacted]he labora[redacted] is limited to the amount paid for the report by the client. The client a[redacted]mes all liability for the further distribution of this report or its content and by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

ENVIRONMENTAL PROTECTION SYSTEMS

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM DATE: 10/25/89
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS
COLLECTED BY: CLIENT RECEIPT DATE: 09/21/89
REPORT NO.: 9299 PROJECT NO.:
PAGE NO.: 1

TEST RESULTS	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION: ANALYST	DATE	TIME	BATCH QUALITY CONTROL: SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		12488.00									
Arsenic, Total	mg/l	<0.003				BSC	10/19/89	12:00	0.200	102	0
[illegible]ethylphenol	ug/l	<30				SCP	10/23/89	14:21	100	60	13
Methylene Chloride	ug/l	<0.1				SCP	10/23/89	13:31	40	89	0
Toxaphene	ug/l	<0.24				SCP	10/21/89	18:03	0.5	NA	0

SUPPLEMENT INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1986 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clear Water Act."

SAMPLE DESCRIPTION:
12488.00 GROUNDWATER MONITORING WELL #13

COLLECTION DATE/TIME:
09/20/89 09/20/89 02:50

CERTIFICATION:

John Broussard
Quality Assurance and Quality Control

Norbert R. Johnston
Analytical and Bio-Analytical Services

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ENVIRONMENTAL PROTECTION SYSTEMS

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM DATE: 10/25/89
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS
COLLECTED BY: CLIENT RECEIPT DATE: 09/21/89
REPORT NO.: 9300 PROJECT NO.:
PAGE NO.: 1

TEST RESULTS	UNITS	LABORATORY RESULTS				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
		REGULATORY LIMIT				ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		12489.00									
Arsenic, Total	mg/l	<0.003				BSC	10/19/89	12:00	0.200	102	0
[redacted]robutylphenol	ug/l	<30				SCP	10/23/89	14:21	100	60	13
Methylene Chloride	ug/l	<0.1				SCP	10/23/89	13:31	40	89	0
Toxaphene	ug/l	<0.24				SCP	10/21/89	18:03	0.5	NA	0

[redacted]PLEMENT INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1986 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION:
12489.00 GROUNDWATER MONITORING WELL #14

COLLECTION DATE/TIME:
09/19/89 09/19/89 10:45

CERTIFICATION:

John Broussard
Quality Assurance and Quality Control

Norbert R. Johnston
Analytical and Bio-Analytical Services

This [redacted] applies only to the sample investigated and is not necessarily indi[redacted] of the quality of apparently identical or similar samples. The liabilit[redacted]e labora[redacted] is limited to the amount paid for the report by the client. The client a[redacted]mes all liability for the further distribution of this report or its content and by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

ENVIRONMENTAL PROTECTION SYSTEMS

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM DATE: 10/25/89 COLLECTED BY: CLIENT REPORT NO.: 9301 PAGE NO.: 1

LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS RECEIPT DATE: 09/21/89 PROJECT NO.:

TEST RESULTS	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		12490.00									
Arsenic, Total	mg/l	<0.003				BSC	10/19/89	12:00	0.200	102	0
[redacted]robutylphenol	ug/l	<30				SCP	10/23/89	14:21	100	60	13
Methylene Chloride	ug/l	<0.1				SCP	10/23/89	13:31	40	89	0
Tavachlor	ug/l	<0.24				SCP	10/21/89	18:03	0.5	NA	0

SUPPLEMENT INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1986 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION: 12490.00 GROUNDWATER MONITORING WELL #16

COLLECTION DATE/TIME: 09/20/89 09/20/89 03:05

CERTIFICATION:

John Broussard
Quality Assurance and Quality Control

Herbert R. Johnston
Analytical and Bio-Analytical Services

This [redacted] applies only to the sample investigated and is not necessarily indi[redacted] of the quality of apparently identical or similar samples. The liabilit[redacted]e labora[redacted]is limited to the amount paid for the report by the client. The client a[redacted]mes all liability for the further distribution of this report or its content a[redacted] by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

CEDAR CHEMICAL CORPORATION

24th Floor • 5100 Poplar Avenue • Memphis, TN 38137 • 901-685-5348

REPLY TO: P.O. BOX 3
VICKSBURG, MS 39181
(601) 636-1231

RECEIVED
JUL 07 1989
Dept. of Natural Resources
Bureau of Pollution Control

CERTIFIED MAIL
RETURN RECEIPT REQUESTED
P 677 981 827

July 3, 1989

Mr. Toby Cook
Environmental Engineer
Bureau of Pollution Control
2380 Highway 80 West
Jackson, Mississippi 39209

Subject: Commission Order No. 1253 87
Condition No. 9, Groundwater Monitoring

Dear Mr. Cook:

Please find enclosed copies of the analytical reports and groundwater elevations for Cedar's groundwater monitoring for the second quarter of 1989.

If there are questions concerning this matter, please contact me.

Sincerely,

Steven T. Boswell

STB: pc

Steven T. Boswell
Director of Env. Affairs

DIVISION OF SOLID WASTE
REVIEWED BY TC
DATE 7/7/89
COMMENTS Copy sent to EPA

Cedar Chemical Corporation, Vicksburg Chemical Division

Groundwater Sampling, June 16

Well No.	Water Level
1A	108.0′
2	100.7′
4	107.5′
5	86.1′
6	89.6′
7	94.2′
8	103.7′
9	112.2′
10	109.2′
11	98.2′
12	110.0′
13	110.2′
14	107.6′
16	110.2′

ENVIRONMENTAL PROTECTION SYSTEMS

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM
LOCATION: VICKSBURG, MS 39180
DATE: 06/29/89
PROJECT LOCATION: VICKSBURG, MS
COLLECTED BY: CLIENT
RECEIPT DATE: 06/19/89
REPORT NO.: 7533
PROJECT NO.:
PAGE NO.: 1

TEST RESULTS	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		10380.00									
Arsenic, Total	ug/l	<0.03				BSC	06/21/89	08:00	0.200	110	0
[illegible]nitrobutylphenol	ug/l	103				SCP	06/22/89	08:45	200	62	NA
Methylene Chloride	ug/l	<0.1				SCP	06/27/89	11:49	40	83	10
Toxaphene	ug/l	<0.24				SCP	06/17/89	08:30	25	83	1.2

SUPPLEMENT INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1984 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION:
10380.00 GROUNDWATER MONITORING WELL #1A

COLLECTION DATE/TIME:
06/16/89 06/16/89 10:35

CERTIFICATION:

John Brouard
Quality Assurance and Quality Control

Herbert L. Johnston
Analytical and Bio-Analytical Services

This report applies only to the sample investigated and is not necessarily indicative of the quality of apparently identical or similar samples. The liability of the laboratory is limited to the amount paid for the report by the client. The client assumes all liability for the further distribution of this report or its contents by many such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM DATE: 06/29/89 COLLECTED BY: CLIENT REPORT NO.: 7534 PAGE NO.: 1
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS RECEIPT DATE: 06/19/89 PROJECT NO.:

TEST RESULTS	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		10381.00									
Arsenic, Total	mg/l	<0.03				BSC	06/21/89	08:00	0.200	110	0
Dinitrobutylphenol	ug/l	<30				SCP	06/22/89	08:45	200	62	NA
Methylene Chloride	ug/l	<0.1				SCP	06/27/89	11:49	40	83	10
Toxaphene	ug/l	<0.24				SCP	06/17/89	08:30	25	83	1.2

SUPPLEMENT INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1984 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION: 10381.00 GROUNDWATER MONITORING WELL #2

COLLECTION DATE/TIME: 06/16/89 06/16/89 09:45

CERTIFICATION:

John Broussard
Quality Assurance and Quality Control

Norbert A. Johnston
Analytical and Bio-Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM DATE: 06/29/89 COLLECTED BY: CLIENT REPORT NO.: 7535 PAGE NO.: 1

LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS RECEIPT DATE: 06/19/89 PROJECT NO.:

TEST RESULTS	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		10382.00									
Arsenic, Total	mg/l	0.003				BSC	06/21/89	08:00	0.200	110	0
Dinitrobutylphenol	ug/l	<30				SCP	06/22/89	08:45	200	62	NA
Methylene Chloride	ug/l	<0.1				SCP	06/27/89	11:49	40	83	10
Toxaphene	ug/l	<0.24				SCP	06/17/89	08:30	25	83	1.2

SUPPLEMENT INFORMATION:

Analysis conducted in accordance with 40 CFR Part 136,1984 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION: 10382.00 GROUNDWATER MONITORING WELL #4

COLLECTION DATE/TIME: 06/16/89 06/16/89 11:45

CERTIFICATION:

John Bouvard
Quality Assurance and Quality Control

Norbert R. Johnston
Analytical and Bio-Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM DATE: 06/29/89 COLLECTED BY: CLIENT REPORT NO.: 7536 PAGE NO.: 1

LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS RECEIPT DATE: 06/19/89 PROJECT NO.:

TEST RESULTS	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		10383.00									
Arsenic, Total	mg/l	<0.003				BSC	06/21/89	08:00	0.200	110	0
Dinitrobutylphenol	ug/l	<30				SCP	06/22/89	08:45	200	62	NA
Methylene Chloride	ug/l	<0.1				SCP	06/27/89	11:49	40	83	10
Toxaphene	ug/l	<0.24				SCP	06/17/89	08:30	25	83	1.2

SUPPLEMENT INFORMATION:

Analysis conducted in accordance with 40 CFR Part 136,1984 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION: **COLLECTION DATE/TIME:**

10383.00 GROUNDWATER MONITORING WELL #5 06/16/89 06/16/89 01:15

CERTIFICATION:

John Broussard
Quality Assurance and Quality Control

Norbert A. Johnston
Analytical and Bio-Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 06/29/89 COLLECTED BY: CLIENT REPORT NO.: 7537 PAGE NO.: 1

LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS RECEIPT DATE: 06/19/89 PROJECT NO.:

TEST RESULTS	UNITS	LABORATORY RESULTS				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
		REGULATORY LIMIT				ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		10384.00									
Arsenic, Total	mg/l	<0.003				BSC	06/21/89	08:00	0.200	110	0
nitrobutylphenol	ug/l	<30				SCP	06/22/89	08:45	200	62	NA
Methylene Chloride	ug/l	<0.1				SCP	06/27/89	11:49	40	83	10
Toxaphene	ug/l	<0.24				SCP	06/17/89	08:30	25	83	1.2

SUPPLEMENT INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1984 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION: 10384.00 GROUNDWATER MONITORING WELL #6

COLLECTION DATE/TIME: 06/16/89 06/16/89 01:30

CERTIFICATION:

Quality Assurance and Quality Control

Herbert A. Johnston
Analytical and Bio-Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 06/29/89 COLLECTED BY: CLIENT REPORT NO.: 7538 PAGE NO.: 1

LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS RECEIPT DATE: 06/19/89 PROJECT NO.:

TEST RESULTS	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		10385.00									
Arsenic, Total	ug/l	<0.003				BSC	06/21/89	08:00	0.200	110	0
Dinitrobutylphenol	ug/l	<30				SCP	06/22/89	08:45	200	62	NA
Methylene Chloride	ug/l	<0.1				SCP	06/27/89	11:49	40	83	10
Toxaphene	ug/l	<0.24				SCP	06/17/89	08:30	25	83	1.2

SUPPLEMENT INFORMATION:

Analysis conducted in accordance with 40 CFR Part 136,1984 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION: 10385.00 GROUNDWATER MONITORING WELL #7

COLLECTION DATE/TIME: 06/16/89 06/16/89 01:45

CERTIFICATION:

John Broussard
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical and Bio-Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 06/29/89 COLLECTED BY: CLIENT REPORT NO.: 7539 PAGE NO.: 1

LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS RECEIPT DATE: 06/19/89 PROJECT NO.:

TEST RESULTS	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		10386.00									
Arsenic, Total	ug/l	0.007				BSC	06/21/89	08:00	0.200	110	0
nitrobutylphenol	ug/l	<30				SCP	06/22/89	08:45	200	62	NA
Methylene Chloride	ug/l	<0.1				SCP	06/27/89	11:49	40	83	10
Toxaphene	ug/l	<0.24				SCP	06/17/89	08:30	25	83	1.2

SUPPLEMENT INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1984 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION: 10386.00 GROUNDWATER MONITORING WELL #8

COLLECTION DATE/TIME: 06/16/89 06/16/89 12:40

CERTIFICATION:

John Broussard
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical and Bio-Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 06/29/89 COLLECTED BY: CLIENT REPORT NO.: 7540 PAGE NO.: 1

LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS RECEIPT DATE: 06/19/89 PROJECT NO.:

TEST RESULTS	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		10387.00									
Arsenic, Total	mg/l	0.003				BSC	06/21/89	08:00	0.200	110	0
Dinitrobutylphenol	ug/l	<30				SCP	06/22/89	08:45	200	62	NA
Methylene Chloride	ug/l	<0.1				SCP	06/27/89	11:49	40	83	10
Toxaphene	ug/l	<0.24				SCP	06/17/89	08:30	25	83	1.2

SUPPLEMENT INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1984 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION: 10387.00 GROUNDWATER MONITORING WELL #9

COLLECTION DATE/TIME: 06/16/89-06/16/89 11:05

CERTIFICATION:

John Broussard
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical and Bio-Analytical Services

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ENVIRONMENTAL PROTECTION SYSTEMS

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE
LOCATION: VICKSBURG, MS 39180
DATE: 06/29/89
PROJECT LOCATION: VICKSBURG, MS
COLLECTED BY: CLIENT
RECEIPT DATE: 06/19/89
REPORT NO.: 7541
PROJECT NO.:
PAGE NO.: 1

TEST RESULTS	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		10388.00									
Arsenic, Total	mg/l	0.008				BSC	06/21/89	08:00	0.200	110	0
[illegible]nitrobutylphenol	ug/l	<30				SCP	06/22/89	08:45	200	62	NA
Methylene Chloride	ug/l	<0.1				SCP	06/27/89	11:49	40	83	10
Toxaphene	ug/l	<0.24				SCP	06/17/89	08:30	25	83	1.2

SUPPLEMENT INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1984 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION:

10388.00 GROUNDWATER MONITORING WELL #10

COLLECTION DATE/TIME:

06/16/89 06/16/89 10:10

CERTIFICATION:

John Broumand
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical and Bio-Analytical Services

This report applies only to the sample investigated and is not necessarily indicative of the quality of apparently identical or similar samples. The liability of the laboratory is limited to the amount paid for the report by the client. The client assumes all liability for the further distribution of this report or its contents and by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

ENVIRONMENTAL PROTECTION SYSTEMS

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 06/29/89
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS
COLLECTED BY: CLIENT RECEIPT DATE: 06/19/89
REPORT NO.: 7542 PROJECT NO.:
PAGE NO.: 1

TEST RESULTS	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		10389.00									
Arsenic, Total	mg/l	0.008				BSC	06/21/89	08:00	0.200	110	0
Dinitrobutylphenol	ug/l	<30				SCP	06/22/89	08:45	200	62	NA
Methylene Chloride	ug/l	<0.1				SCP	06/27/89	11:49	40	97	5.6
Toxaphene	ug/l	<0.24				SCP	06/17/89	08:30	25	83	1.2

SUPPLEMENT INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1984 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION:
10389.00 GROUNDWATER MONITORING WELL #11

COLLECTION DATE/TIME:
06/16/89-06/16/89 10:20

CERTIFICATION:

John Broussard
Quality Assurance and Quality Control

Herbert C. Johnston
Analytical and Bio-Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 06/29/89 COLLECTED BY: CLIENT REPORT NO.: 7543 PAGE NO.: 1

LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS RECEIPT DATE: 06/19/89 PROJECT NO.:

TEST RESULTS	UNITS	LABORATORY RESULTS				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
		REGULATORY LIMIT				ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		10390.00									
Arsenic, Total	mg/l	0.010				BSC	06/21/89	08:00	0.200	110	0
[illegible]nitrobutylphenol	ug/l	<30				SCP	06/22/89	08:45	200	62	NA
Methylene Chloride	ug/l	<0.1				SCP	06/27/89	11:49	40	97	5.6
Toxaphene	ug/l	<0.24				SCP	06/17/89	08:30	25	83	1.2

[illegible]UPPLEMENT INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1984 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION:

10390.00 GROUNDWATER MONITORING WELL #12

COLLECTION DATE/TIME:

06/16/89 06/16/89 09:55

CERTIFICATION:

John Brouard
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical and Bio-Analytical Services

This report applies only to the sample investigated and is not necessarily indicative of the quality of apparently identical or similar samples. The liabil[illegible] the labo[illegible]y is limited to the amount paid for the report by the client. The clien[illegible]umes all liability for the further distribution of this report or its conte[illegible] by ma[illegible]uch distribution agrees to hold the laboratory harmless against all cla[illegible]f persons so informed of the contents hereof.

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 06/29/89 COLLECTED BY: CLIENT REPORT NO.: 7544 PAGE NO.: 1

LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS RECEIPT DATE: 06/19/89 PROJECT NO.:

TEST RESULTS	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		10391.00									
Arsenic, Total	mg/l	0.007				BSC	06/21/89	08:00	0.200	110	0
Dinitrobutylphenol	ug/l	<30				SCP	06/22/89	08:45	200	62	NA
Methylene Chloride	ug/l	<0.1				SCP	06/27/89	11:49	40	97	5.6
Toxaphene	ug/l	<0.24				SCP	06/17/89	08:30	25	83	1.2

SUPPLEMENT INFORMATION:

Analysis conducted in accordance with 40 CFR Part 136,1984 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION: 10391.00 GROUNDWATER MONITORING WELL #13

COLLECTION DATE/TIME: 06/16/89 06/16/89 11:20

CERTIFICATION:

John Broumard
Quality Assurance and Quality Control

Norbert A. Johnston
Analytical and Bio-Analytical Services

This report applies only to the sample investigated and is not necessarily indicative of the quality of apparently identical or similar samples. The liability of the laboratory is limited to the amount paid for the report by the client. The client assumes all liability for the further distribution of this report or its contents and by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM DATE: 06/29/89 COLLECTED BY: CLIENT REPORT NO.: 7545 PAGE NO.: 1

LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS RECEIPT DATE: 06/19/89 PROJECT NO.:

TEST RESULTS	UNITS	LABORATORY RESULTS				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
		REGULATORY LIMIT				ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		10392.00									
Arsenic, Total	mg/l	<0.003				BSC	06/21/89	08:00	0.200	110	0
[illegible]itrobutylphenol	ug/l	<30				SCP	06/22/89	08:45	200	62	NA
Methylene Chloride	ug/l	<0.1				SCP	06/27/89	11:49	40	97	5.6
Toxaphene	ug/l	<0.24				SCP	06/17/89	08:30	25	83	1.2

[illegible]PPLEMENT INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1984 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION:

10392.00 GROUNDWATER MONITORING WELL #14

COLLECTION DATE/TIME:

06/16/89 06/16/89 10:45

CERTIFICATION:

John Broumard
Quality Assurance and Quality Control

Herbert R. Johnston
Analytical and Bio-Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM DATE: 06/29/89 COLLECTED BY: CLIENT REPORT NO.: 7546 PAGE NO.: 1
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS RECEIPT DATE: 06/19/89 PROJECT NO.:

TEST RESULTS	UNITS	LABORATORY RESULTS				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
		REGULATORY LIMIT				ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		10393.00									
Arsenic, Total	mg/l	0.005				BSC	06/21/89	08:00	0.200	110	0
Dinitrobutylphenol	ug/l	<30				SCP	06/22/89	08:45	200	62	NA
Methylene Chloride	ug/l	<0.1				SCP	06/27/89	11:49	40	97	5.6
Toxaphene	ug/l	<0.24				SCP	06/17/89	08:30	25	83	1.2

SUPPLEMENT INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1984 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION:	COLLECTION DATE/TIME:
10393.00 GROUNDWATER MONITORING WELL #16	06/16/89 06/16/89 10:25

CERTIFICATION:

Quality Assurance and Quality Control

Analytical and Bio-Analytical Services

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DIVISION OF SOLID WASTE

REVIEWED BY TC

DATE 5/15/89

COMMENTS Copy sent EPA

CEDAR CHEMICAL CORPORATION

24th Floor • 5100 Poplar Avenue • Memphis, TN 38137 • 901-685-5348

REPLY TO: P.O. BOX 3
VICKSBURG, MS 39181
(601) 636-1231

CERTIFIED MAIL
RETURN RECEIPT REQUESTED
P 677 981 817

RECEIVED
MAY 11 1989
Dept. of Natural Resources
Bureau of Pollution Control

May 10, 1989

Mr. Toby Cook
Environmental Engineer
Bureau of Pollution Control
2380 Highway 80 West
Jackson, Mississippi 39209

Subject: Commission Order No. 1253 87
Condition No. 9, Groundwater Monitoring

Dear Mr. Cook:

Please find enclosed copies of the analytical reports and groundwater elevations for Cedar's groundwater monitoring for the first quarter of 1989.

If there are questions concerning this matter, please contact me.

Sincerely,

Steven T. Boswell

STB: pc

Steven T. Boswell
Director of Env. Affairs

Cedar Chemical Corporation, Vicksburg Chemical Division

Groundwater Sampling, March 28 - 29, 1989

Well No.	Water Level
1A	107.7′
2	100.7′
4	107.5′
5	87.6′
6	90.7′
7	94.5′
8	103.7′
9	112.3′
10	109.7′
11	98.4′
12	110.6′
13	110.4′
14	107.6′
16	110.2′

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM DATE: 04/10/89
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS
COLLECTED BY: CLIENT RECEIPT DATE: 03/30/89
REPORT NO.: 6361 PAGE NO.:
PROJECT NO.:

TEST RESULTS	UNITS	LABORATORY RESULTS	ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
		REGULATORY LIMIT	ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		8925.00						
Arsenic, Total	mg/l	0.009	BSC	04/03/89	16:00	0.200	100	0
Dinitrobutylphenol	ug/l	390	SCP	04/03/89	16:30	100	89	13
Methylene Chloride	ug/l	<0.1	SCP	04/05/89	08:00	40	106	12
Toxaphene	ug/l	<0.24	SCP	03/30/89	16:15	25	100	13

SUPPLEMENT INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1984 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION:
8925.00 GROUNDWATER MONITORING WELL SAMPLE #1A

COLLECTION DATE/TIME:
03/28/89 03/28/89 01:10

CERTIFICATION:
John Brainard
Quality Assurance and Quality Control
Herbert A. Johnston
Analytical and Bioanalytical Services

This report applies only to the sample investigated and is not necessarily indicative of the quality of apparently identical or similar samples. The liability of the laboratory is limited to the amount paid for the report by the client. The client assumes all liability for the further distribution of this report or its content and by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM
LOCATION: VICKSBURG, MS 39180
DATE: 04/10/89
PROJECT LOCATION: VICKSBURG, MS
COLLECTED BY: CLIENT
RECEIPT DATE: 03/30/89
REPORT NO.: 6362
PROJECT NO.:
PAGE NO.: 1

TEST RESULTS	UNITS	LABORATORY RESULTS / REGULATORY LIMIT	ANALYST	DATE	TIME	BATCH QUALITY CONTROL: SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		8926.00						
Arsenic, Total	mg/l	0.005	BSC	04/03/89	16:00	0.200	100	0
Dinitrobutylphenol	ug/l	<30	SCP	04/03/89	16:30	100	89	13
Methylene Chloride	ug/l	<0.1	SCP	04/05/89	08:00	40	106	18
Toxaphene	ug/l	<0.24	SCP	03/30/89	16:15	25	100	13

SUPPLEMENT INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1984 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION:
8926.00 GROUNDWATER MONITORING WELL SAMPLE #2

COLLECTION DATE/TIME:
03/28/89 03/28/89 10:00

CERTIFICATION:

John Brouard
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical and Bio-Analytical Services

This report applies only to the sample investigated and is not necessarily indicative of the quality of apparently identical or similar samples. The liability of the laboratory is limited to the amount paid for the report by the client. The client assumes all liability for the further distribution of this report or its content and by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM
LOCATION: VICKSBURG, MS 39180
DATE: 04/10/89
PROJECT LOCATION: VICKSBURG, MS
COLLECTED BY: CLIENT
RECEIPT DATE: 03/30/89
REPORT NO.: 6363
PROJECT NO.:
PAGE NO.: 1

TEST RESULTS	UNITS	LABORATORY RESULTS / REGULATORY LIMIT	ANALYSIS INFORMATION: ANALYST	DATE	TIME	BATCH QUALITY CONTROL: SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		8927.00						
Arsenic, Total	mg/l	0.007	BSC	04/03/89	16:00	0.200	100	0
Dinitrobutylphenol	ug/l	<30	SCP	04/03/89	16:30	100	89	13
Methylene Chloride	ug/l	<0.1	SCP	04/05/89	08:00	40	106	12
Toxaphene	ug/l	<0.24	SCP	03/30/89	16:15	25	100	13

SUPPLEMENT INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1984 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION:
8927.00 GROUNDWATER MONITORING WELL SAMPLE #4

COLLECTION DATE/TIME:
03/28/89 03/28/89 11:20

CERTIFICATION:

John Broussard
Quality Assurance and Quality Control

Herbert L. Johnston
Analytical and Bio-Analytical Services

This report applies only to the sample investigated and is not necessarily indicative of the quality of apparently identical or similar samples. The liability of the laboratory is limited to the amount paid for the report by the client. The client assumes all liability for the further distribution of this report or its content and by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM DATE: 04/10/89 COLLECTED BY: CLIENT REPORT NO.: 6364 PAGE NO.: 1
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS RECEIPT DATE: 03/30/89 PROJECT NO.:

TEST RESULTS	UNITS	LABORATORY RESULTS / REGULATORY LIMIT	ANALYSIS INFORMATION: ANALYST	DATE	TIME	BATCH QUALITY CONTROL: SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		8928.00						
Arsenic, Total	mg/l	0.009	BSC	04/03/89	16:00	0.200	100	0
Dinitrobutylphenol	ug/l	<30	SCP	04/03/89	16:30	100	89	13
Methylene Chloride	ug/l	<0.1	SCP	04/05/89	08:00	40	106	12
Toxaphene	ug/l	<0.24	SCP	03/30/89	16:15	25	100	13

SUPPLEMENT INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1984 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION:	COLLECTION DATE/TIME:	CERTIFICATION:
8928.00 GROUNDWATER MONITORING WELL SAMPLE #5	03/29/89 03/29/89 02:15	John Broumard, Quality Assurance and Quality Control Herbert A. Johnston, Analytical and Bio-Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 04/10/89 COLLECTED BY: CLIENT REPORT NO.: 6365 PAGE NO.: 1
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS RECEIPT DATE: 03/30/89 PROJECT NO.:

TEST RESULTS	UNITS	LABORATORY RESULTS / REGULATORY LIMIT	ANALYSIS INFORMATION: ANALYST	DATE	TIME	BATCH QUALITY CONTROL: SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		8929.00						
Arsenic, Total	mg/l	0.012	BSC	04/03/89	16:00	0.200	100	0
Dinitrobutylphenol	ug/l	<30	SCP	04/03/89	16:30	100	89	13
Methylene Chloride	ug/l	<0.1	SCP	04/05/89	08:00	40	106	12
Toxaphene	ug/l	<24	SCP	03/30/89	16:15	25	100	13

SUPPLEMENT INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1984 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION:
8929.00 GROUNDWATER MONITORING WELL SAMPLE #6

COLLECTION DATE/TIME:
03/29/89 03/29/89 02:25

CERTIFICATION:

John Broussard
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical and Bio-Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM DATE: 04/10/89 COLLECTED BY: CLIENT REPORT NO.: 6366 PAGE NO.: 1

LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS RECEIPT DATE: 03/30/89 PROJECT NO.:

TEST RESULTS	UNITS	LABORATORY RESULTS / REGULATORY LIMIT	ANALYSIS INFORMATION: ANALYST	DATE	TIME	BATCH QUALITY CONTROL: SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		8930.00						
Arsenic, Total	mg/l	0.020	BSC	04/03/89	16:00	0.200	100	0
Dinitrobutylphenol	ug/l	<30	SCP	04/03/89	16:30	100	89	13
Methylene Chloride	ug/l	<0.1	SCP	04/05/89	08:00	40	106	12
Toxaphene	ug/l	<0.24	SCP	03/30/89	16:15	25	100	13

SUPPLEMENT INFORMATION:

Analysis conducted in accordance with 40 CFR Part 136,1984 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION:

8930.00 GROUNDWATER MONITORING WELL SAMPLE #7

COLLECTION DATE/TIME:

03/29/89 03/29/89 02:35

CERTIFICATION:

John Brouard
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical and Bio-Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM
LOCATION: VICKSBURG, MS 39180
DATE: 04/10/89
PROJECT LOCATION: VICKSBURG, MS
COLLECTED BY: CLIENT
RECEIPT DATE: 03/30/89
REPORT NO.: 6367
PROJECT NO.:
PAGE NO.: 1

TEST RESULTS	UNITS	LABORATORY RESULTS / REGULATORY LIMIT	ANALYST	DATE	TIME	BATCH QUALITY CONTROL: SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		8931.00						
Arsenic, Total	mg/l	0.040	BSC	04/03/89	16:00	0.200	100	0
Dinitrobutylphenol	ug/l	<30	SCP	04/03/89	16:30	100	89	13
Methylene Chloride	ug/l	<0.1	SCP	04/05/89	08:00	40	106	12
Toxaphene	ug/l	<0.24	SCP	03/30/89	16:15	25	100	13

SUPPLEMENT INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1984 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION:
8931.00 GROUNDWATER MONITORING WELL SAMPLE #8

COLLECTION DATE/TIME:
03/29/89 03/29/89 02:00

CERTIFICATION:

John Broussard
Quality Assurance and Quality Control

Herbert C. Johnston
Analytical and Bio-Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CH DATE: 04/10/89
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS
COLLECTED BY: CLIENT RECEIPT DATE: 03/30/89
REPORT NO.: 6368 PROJECT NO.:
PAGE NO.: 1

TEST RESULTS	UNITS	LABORATORY RESULTS / REGULATORY LIMIT	ANALYSIS INFORMATION: ANALYST	DATE	TIME	BATCH QUALITY CONTROL: SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		8932.00						
Arsenic, Total	ug/l	0.009	BSC	04/03/89	16:00	0.200	100	0
Dinitrobutylphenol	ug/l	<30	SCP	04/03/89	16:30	100	89	13
Methylene Chloride	ug/l	<0.1	SCP	04/05/89	08:00	40	106	12
Toxaphene	ug/l	<0.24	SCP	03/31/89	09:30	25	85	34

SUPPLEMENT INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1984 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION:
8932.00 GROUNDWATER MONITORING WELL SAMPLE #9

COLLECTION DATE/TIME:
03/28/89 03/28/89 02:30

CERTIFICATION:

Quality Assurance and Quality Control

Analytical and Bio-Analytical Services

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ENVIRONMENTAL PROTECTION SYSTEMS

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 04/10/89 COLLECTED BY: CLIENT REPORT NO.: 6369 PAGE NO.: 1

LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS RECEIPT DATE: 03/30/89 PROJECT NO.:

TEST RESULTS	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		8933.00									
Arsenic, Total	ug/l	0.014				BSC	04/03/89	16:00	0.200	100	0
Dinitrobutylphenol	ug/l	<30				SCP	04/03/89	16:30	100	89	13
Methylene Chloride	ug/l	<0.1				SCP	04/05/89	08:00	40	106	12
Toxaphene	ug/l	<0.24				SCP	03/31/89	09:30	25	85	34

SUPPLEMENT INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1984 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION:

8933.00 GROUNDWATER MONITORING WELL SAMPLE #10

COLLECTION DATE/TIME:

03/28/89 03/28/89 10:40

CERTIFICATION:

John Broussard
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical and Bio-Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM
LOCATION: VICKSBURG, MS 39180
DATE: 04/10/89
PROJECT LOCATION: VICKSBURG, MS
COLLECTED BY: CLIENT
RECEIPT DATE: 03/30/89
REPORT NO.: 6370
PROJECT NO.:
PAGE NO.: 1

TEST RESULTS	UNITS	LABORATORY RESULTS / REGULATORY LIMIT	ANALYSIS INFORMATION: ANALYST	DATE	TIME	BATCH QUALITY CONTROL: SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		8934.00						
Arsenic, Total	mg/l	0.011	BSC	04/03/89	16:00	0.200	100	0
Dinitrobutylphenol	ug/l	<30	SCP	04/03/89	16:30	100	89	13
Methylene Chloride	ug/l	<0.1	SCP	04/05/89	08:00	40	106	12
Toxaphene	ug/l	<0.24	SCP	03/31/89	09:30	25	85	34

SUPPLEMENT INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1984 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION:
8934.00 GROUNDWATER MONITORING WELL SAMPLE #11

COLLECTION DATE/TIME:
03/28/89 03/28/89 11:00

CERTIFICATION:

John Townsend
Quality Assurance and Quality Control

Robert A. Johnston
Analytical and Bio-Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 04/10/89
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS
COLLECTED BY: CLIENT RECEIPT DATE: 03/30/89
REPORT NO.: 6371 PROJECT NO.:
PAGE NO.: 1

TEST RESULTS	UNITS	LABORATORY RESULTS				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
		REGULATORY LIMIT				ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		8935.00									
Arsenic, Total	ug/l	0.020				BSC	04/03/89	16:00	0.200	100	0
Dinitrobutylphenol	ug/l	<30				SCP	04/03/89	16:30	100	89	13
Methylene Chloride	ug/l	<0.1				SCP	04/05/89	08:00	40	106	12
Toxaphene	ug/l	<0.24				SCP	03/31/89	09:30	25	85	34

SUPPLEMENT INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1984 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION:
8935.00 GROUNDWATER MONITORING WELL SAMPLE #12

COLLECTION DATE/TIME:
03/28/89 03/28/89 10:20

CERTIFICATION:

John Broussard
Quality Assurance and Quality Control

Herbert R. Johnston
Analytical and Bio-Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM DATE: 04/10/89
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS
COLLECTED BY: CLIENT RECEIPT DATE: 03/30/89
REPORT NO.: 6372 PAGE NO.: 1
PROJECT NO.:

TEST RESULTS	UNITS	LABORATORY RESULTS	REGULATORY LIMIT			ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		8936.00									
Arsenic, Total	mg/l	0.032				BSC	04/03/89	16:00	0.200	100	0
Dinitrobutylphenol	ug/l	<30				SCP	04/03/89	16:30	100	89	13
Methylene Chloride	ug/l	<0.1				SCP	04/07/89	09:04	40	99.9	2
Toxaphene	ug/l	<0.24				SCP	03/31/89	09:30	25	85	34

SUPPLEMENT INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1984 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION:
8936.00 GROUNDWATER MONITORING WELL SAMPLE #13

COLLECTION DATE/TIME:
03/28/89 03/28/89 02:10

CERTIFICATION:

John N. Broussard
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical and Bio-Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM
LOCATION: VICKSBURG, MS 39180
DATE: 04/10/89
PROJECT LOCATION: VICKSBURG, MS
COLLECTED BY: CLIENT
RECEIPT DATE: 03/30/89
REPORT NO.: 6373
PROJECT NO.:
PAGE NO.: 1

TEST RESULTS	UNITS	LABORATORY RESULTS	ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
		REGULATORY LIMIT	ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		8937.00						
Arsenic, Total	ug/l	0.007	BSC	04/03/89	16:00	0.200	100	0
Dinitrobutylphenol	ug/l	<30	SCP	04/03/89	16:30	100	89	13
Methylene Chloride	ug/l	<0.1	SCP	04/07/89	09:04	40	99.9	2
Toxaphene	ug/l	<0.24	SCP	03/31/89	09:30	25	85	34

SUPPLEMENT INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1984 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION:
8937.00 GROUNDWATER MONITORING WELL SAMPLE #14

COLLECTION DATE/TIME:
03/28/89 03/28/89 01:50

CERTIFICATION:

John Brouyard
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical and Bio-Analytical Services

This report applies only to the sample investigated and is not necessarily indicative of the quality of apparently identical or similar samples. The liability of the laboratory is limited to the amount paid for the report by the client. The client assumes all liability for the further distribution of this report or its content and by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM DATE: 04/10/89
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: VICKSBURG, MS
COLLECTED BY: CLIENT RECEIPT DATE: 03/30/89
REPORT NO.: 6374 PROJECT NO.: PAGE NO.: 1

TEST RESULTS	UNITS	LABORATORY RESULTS / REGULATORY LIMIT	ANALYSIS INFORMATION: ANALYST	DATE	TIME	BATCH QUALITY CONTROL: SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		8938.00						
Arsenic, Total	ug/l	0.021	BSC	04/03/89	16:00	0.200	100	0
Dinitrobutylphenol	ug/l	<30	SCP	04/03/89	16:30	100	89	13
Methylene Chloride	ug/l	<0.1	SCP	04/07/89	09:04	40	99.9	2
Toxaphene	ug/l	<0.24	SCP	03/31/89	09:30	25	85	34

SUPPLEMENT INFORMATION:
Analysis conducted in accordance with 40 CFR Part 136,1984 "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

SAMPLE DESCRIPTION:
8938.00 GROUNDWATER MONITORING WELL SAMPLE #16

COLLECTION DATE/TIME:
03/28/89 03/28/89 01:30

CERTIFICATION:

John Broussard
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical and Bio-Analytical Services

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CEDAR CHEMICAL CORPORATION

24th Floor • 5100 Poplar Avenue • Memphis, TN 38137 • 901-685-5348

REPLY TO: P. O. BOX 3
VICKSBURG, MS 39180
(601) 636-1231

CERTIFIED MAIL
RETURN RECEIPT REQUESTED
P 677 981 805

RECEIVED
JAN 17 1989
Dept. of Natural Resources
Bureau of Pollution Control

January 12, 1989

Mr. Toby Cook
Environmental Engineer
Bureau of Pollution Control
2380 Highway 80 West
Jackson, Mississippi 39209

Subject: Commission Order No. 1253 87
Condition No. 9, Groundwater Monitoring

Dear Mr. Cook:

Please find enclosed copies of the analytical reports and groundwater elevations for Cedar's groundwater monitoring for the fourth quarter of 1988.

The method of analysis for dinitrobutylphenol now being used is EPA Method 8040. This method has a slightly higher detection limit than that previously used. As the contract laboratory has been unable to produce reliable results using other EPA methods with lower detection limits, we believe this to be the appropriate method of analysis for dinitrobutylphenol.

If there are questions concerning this matter, please contact me.

Sincerely,

Steven T. Boswell
Director of Env. Affairs

STB: pc

bc: Mr. Ahlers
Mr. Madsen
Mr. Keen
Dr. Gastrock

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 12/23/88 COLLECTED BY: CLIENT REPORT NO.: 4978 PAGE NO.: 1

LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: Vicksburg,Ms. RECEIPT DATE: 12/08/88 PROJECT NO.:

TEST RESULTS	UNITS	LABORATORY RESULTS				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
		REGULATORY LIMIT				ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		6885.00									
Arsenic, Total	mg/l	<0.003				BSC	12/13/88	16:00	0.200	106	0
Dinitrobutylphenol	ug/l	61				SCP	12/22/88	08:00	100	55	NA
Methylene Chloride	ug/l	<0.1				SCP	12/13/88	10:27	40	108	NA
Toxaphene	ug/l	<0.24				SCP	12/09/88	13:00	25	77	5.5
TEST RESULTS FOR SAMPLE LOG NUMBER:			6886.00								
Arsenic, Total	mg/l		<0.003			BSC	12/13/88	16:00	0.200	106	0
Dinitrobutylphenol	ug/l		<30			SCP	12/22/88	08:00	100	55	NA
Methylene Chloride	ug/l		<0.1			SCP	12/13/88	10:27	40	108	NA
Toxaphene	ug/l		<0.24			SCP	12/09/88	13:00	25	77	5.5

SUPPLEMENT INFORMATION:

Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:	COLLECTION DATE/TIME:
6885.00 Well #1A	12/07/88 12/07/88 01:56
6886.00 Well #2	12/07/88 12/07/88 11:52

CERTIFICATION:

John Broussard
Quality Assurance and Quality Control

Norbert A. Johnston
Analytical and Bio-Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 12/23/88
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: Vicksburg,Ms.
COLLECTED BY: CLIENT RECEIPT DATE: 12/08/88
REPORT NO.: 4979 PROJECT NO.:
PAGE NO.: 1

TEST RESULTS	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION: ANALYST	DATE	TIME	BATCH QUALITY CONTROL: SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		6887.00									
Arsenic, Total	mg/l	<0.003				BSC	12/13/88	16:00	0.200	106	0
Dinitrobutylphenol	ug/l	<30				SCP	12/22/88	08:00	100	55	NA
Methylene Chloride	ug/l	<0.1				SCP	12/13/88	10:27	40	108	NA
Toxaphene	ug/l	<0.24				SCP	12/09/88	13:00	25	77	5.5
TEST RESULTS FOR SAMPLE LOG NUMBER:			6888.00								
Arsenic, Total	mg/l		0.010			BSC	12/13/88	16:00	0.200	106	0
Dinitrobutylphenol	ug/l		<30			SCP	12/22/88	08:00	100	55	NA
Methylene Chloride	ug/l		<0.1			SCP	12/13/88	10:27	40	108	NA
Toxaphene	ug/l		<0.24			SCP	12/09/88	13:00	25	77	5.5

SUPPLEMENT INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:	COLLECTION DATE/TIME:
6887.00 Well #4	12/07/88 12/07/88 08:45
6888.00 Well #5	12/07/88 12/07/88 11:20

CERTIFICATION:

John Braunard
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical and Bio-Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM DATE: 12/27/88
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: Vicksburg,Ms.
COLLECTED BY: CLIENT RECEIPT DATE: 12/08/88
REPORT NO.: 4980 PROJECT NO.:
PAGE NO.: 1

TEST RESULTS	UNITS	LABORATORY RESULTS REGULATORY LIMIT				ANALYSIS INFORMATION ANALYST	DATE	TIME	BATCH QUALITY CONTROL SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		6889.00									
Arsenic, Total	mg/l	0.003				BSC	12/13/88	16:00	0.200	106	0
Dinitrobutylphenol	ug/l	<30				SCP	12/22/88	08:00	100	55	NA
Methylene Chloride	ug/l	<0.1				SCP	12/13/88	10:27	40	108	NA
Toxaphene	ug/l	<0.24				SCP	12/09/88	13:00	25	77	5.5
TEST RESULTS FOR SAMPLE LOG NUMBER:			6890.00								
Arsenic, Total	mg/l		0.014			BSC	12/13/88	16:00	0.200	106	0
Dinitrobutylphenol	ug/l		<30			SCP	12/22/88	08:00	100	55	NA
Methylene Chloride	ug/l		<0.1			SCP	12/13/88	10:27	40	108	NA
Toxaphene	ug/l		<0.24			SCP	12/09/88	13:00	25	77	5.5

SUPPLEMENT INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:	COLLECTION DATE/TIME:
6889.00 Well #6	12/07/88 12/07/88 11:26
6890.00 Well #7	12/07/88 12/07/88 11:35

CERTIFICATION:

John Broumand
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical and Bio-Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 12/23/88 COLLECTED BY: CLIENT REPORT NO.: 4981 PAGE NO.: 1
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: Vicksburg,Ms. RECEIPT DATE: 12/08/88 PROJECT NO.:

TEST RESULTS	UNITS	LABORATORY RESULTS REGULATORY LIMIT				ANALYSIS INFORMATION ANALYST	DATE	TIME	BATCH QUALITY CONTROL SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		6891.00									
Arsenic, Total	mg/l	0.027				BSC	12/13/88	16:00	0.200	106	0
Dinitrobutylphenol	ug/l	<30				SCP	12/22/88	08:00	100	55	NA
Methylene Chloride	ug/l	<0.1				SCP	12/13/88	10:27	40	108	NA
Toxaphene	ug/l	<0.24				SCP	12/09/88	13:00	25	77	5.5
TEST RESULTS FOR SAMPLE LOG NUMBER:			6892.00								
Arsenic, Total	mg/l		<0.003			BSC	12/13/88	16:00	0.200	106	0
Dinitrobutylphenol	ug/l		<30			SCP	12/22/88	08:00	100	55	NA
Methylene Chloride	ug/l		<0.1			SCP	12/13/88	10:27	40	108	NA
Toxaphene	ug/l		<0.24			SCP	12/09/88	13:00	25	77	5.5

SUPPLEMENT INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:

6891.00 Well #8
6892.00 Well #9

COLLECTION DATE/TIME:

12/07/88 12/07/88 11:00
12/07/88 12/07/88 02:15

CERTIFICATION:

John Broussard
Quality Assurance and Quality Control

Robert A. Johnston
Analytical and Bio-Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 12/23/88
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: Vicksburg,Ms.
COLLECTED BY: CLIENT RECEIPT DATE: 12/08/88
REPORT NO.: 4982 PROJECT NO.:
PAGE NO.: 1

TEST RESULTS	UNITS	LABORATORY RESULTS REGULATORY LIMIT				ANALYSIS INFORMATION ANALYST	DATE	TIME	BATCH QUALITY CONTROL SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		6893.00									
Arsenic, Total	mg/l	0.006				BSC	12/13/88	16:00	0.200	106	0
Dinitrobutylphenol	ug/l	<30				SCP	12/22/88	08:00	100	55	NA
Methylene Chloride	ug/l	<0.1				SCP	12/13/88	10:27	40	108	NA
Toxaphene	ug/l	<0.24				SCP	12/09/88	13:00	25	77	5.5
TEST RESULTS FOR SAMPLE LOG NUMBER:			6894.00								
Arsenic, Total	mg/l		0.012			BSC	12/13/88	16:00	0.200	106	0
Dinitrobutylphenol	ug/l		<30			SCP	12/22/88	08:00	100	55	NA
Methylene Chloride	ug/l		<0.1			SCP	12/13/88	10:27	40	108	NA
Toxaphene	ug/l		<0.24			SCP	12/09/88	13:00	25	77	5.5

SUPPLEMENT INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:	COLLECTION DATE/TIME:
6893.00 Well #10	12/07/88 12/07/88 01:40
6894.00 Well #11	12/07/88 12/07/88 01:45

CERTIFICATION:

John Broussard
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical and Bio-Analytical Services

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ENVIRONMENTAL PROTECTION SYSTEMS

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 12/23/88 COLLECTED BY: CLIENT REPORT NO.: 4983 PAGE NO.: 1

LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: Vicksburg,Ms. RECEIPT DATE: 12/08/88 PROJECT NO.:

TEST RESULTS	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		6895.00									
Arsenic, Total	mg/l	0.005				BSC	12/14/88	16:00	0.200	102	0
Dinitrobutylphenol	ug/l	<30				SCP	12/22/88	08:00	100	55	NA
Methylene Chloride	ug/l	<0.1				SCP	12/13/88	10:27	40	108	NA
Toxaphene	ug/l	<0.24				SCP	12/09/88	13:00	25	77	5.5
TEST RESULTS FOR SAMPLE LOG NUMBER:			6896.00								
Arsenic, Total	mg/l		0.009			BSC	12/14/88	16:00	0.200	102	0
Dinitrobutylphenol	ug/l		<30			SCP	12/22/88	08:00	100	55	NA
Methylene Chloride	ug/l		<0.1			SCP	12/13/88	10:27	40	108	NA
Toxaphene	ug/l		<0.24			SCP	12/09/88	13:00	25	77	5.5

SUPPLEMENT INFORMATION:

Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:	COLLECTION DATE/TIME:
6895.00 Well #12	12/07/88 12/07/88 01:35
6896.00 Well #13	12/07/88 12/07/88 02:20

CERTIFICATION:

John Broumand
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical and Bio-Analytical Services

This report applies only to the sample investigated and is not necessarily representative of the quality of apparently identical or similar samples. The liability of the laboratory *is limited to the amount paid for the report* by the client. The client assumes all liability for the further distribution of this report or its content and by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 12/23/88 COLLECTED BY: CLIENT REPORT NO.: 4984 PAGE NO.: 1
LOCATION: VICKSBURG, MS 39180 PROJECT LOCATION: Vicksburg,Ms. RECEIPT DATE: 12/08/88 PROJECT NO.:

TEST RESULTS	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION: ANALYST	DATE	TIME	BATCH QUALITY CONTROL: SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		6897.00									
Arsenic, Total	mg/l	0.003				BSC	12/14/88	16:00	0.200	102	0
Dinitrobutylphenol	ug/l	<30				SCP	12/22/88	08:00	100	55	NA
Methylene Chloride	ug/l	<0.1				SCP	12/13/88	10:27	40	108	NA
Toxaphene	ug/l	<0.24				SCP	12/09/88	13:00	25	77	5.5
TEST RESULTS FOR SAMPLE LOG NUMBER:			6898.00								
Arsenic, Total	mg/l		0.006			BSC	12/14/88	16:00	0.200	102	0
Dinitrobutylphenol	ug/l		<30			SCP	12/22/88	08:00	100	55	NA
Methylene Chloride	ug/l		<0.1			SCP	12/13/88	10:27	40	108	NA
Toxaphene	ug/l		<0.24			SCP	12/09/88	13:00	25	77	5.5

SUPPLEMENT INFORMATION:

Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:	COLLECTION DATE/TIME:
6897.00 Well #14	12/07/88 12/07/88 02:05
6898.00 Well #16	12/07/88 12/07/88 01:52

CERTIFICATION:

John Broussard
Quality Assurance and Quality Control

Herbert R. Johnston
Analytical and Bio-Analytical Services

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Ce[illegible] Chemical Corporation, Vicksburg Chemical Division

Groundwater Sampling, December 6 - 7, 1988

Well No.	Water Level
1A	107.1′
2	98.9′
4	106.2′
5	83.9′
6	85.8′
7	92.9′
8	103.2′
9	111.1′
10	108.4′
11	97.9′
12	109.1′
13	109.1′
14	106.7′
16	109.1′

Environmental Protection Systems
Comprehensive Engineering Services and Analytical Testing
Division of Enviro/Analysis Corp.

November 3, 1988
File No. 1.89.3.0733

RECEIVED
NOV - 4 1988
Dept. of Natural Resources
Bureau of Pollution Control

Mr. Louis H. Crawford, P.E.
TDS Branch, Hazardous Waste Division
Bureau of Pollution Control
P. O. Box 10385
Jackson, MS 39209

Dear Mr. Crawford:

Subject: Vicksburg Chemical Results

The "not determined" results for the Well No. 1A at Vicksburg Chemical was a result of no qualitative recovery of surrogate standard for that sample. This was the probable result of new analysts doing this complicated esterification process for the first time. I have required our new Organic Group to successfully esterify dinitrobutyphenol and a surrogate standard on at least three sets of blank water samples before analyzing the next quarter's samples from these wells.

If you have any questions or comments, please do not hesitate to call.

Sincerely,

ENVIRONMENTAL PROTECTION SYSTEMS

John Broussard

John P. Broussard
Laboratory Coordinator

JPB/ncr

DIVISION OF SOLID WASTE
REVIEWED BY
DATE 7 NOV 88
COMMENTS Copy in Comp. file
Copy to EPA

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CEDAR CHEMICAL CORPORATION

24th Floor • 5100 Poplar Avenue • Memphis, TN 38137 • 901-685-5348

REPLY TO: P. O. BOX 3
VICKSBURG, MS 39180
(601) 636-1231

CERTIFIED MAIL
RETURN RECEIPT REQUESTED
P 677 980 768

October 13, 1988

Mr. Jack McCord
Environmental Engineer
Bureau of Pollution Control
2380 Highway 80 West
Jackson, Mississippi 39209

Subject: Commission Order No. 1253 87
Condition No. 9, Groundwater Monitoring

Dear Mr. McCord:

Please find enclosed copies of the analytical reports and groundwater elevations for Cedar's groundwater monitoring for the third quarter of 1988.

If there are questions concerning this matter, please contact me.

Sincerely,

Steven T. Boswell

Steven T. Boswell
Director of Env. Affairs

STB: pc

DIVISION OF SOLID WASTE
REVIEWED BY
DATE 21/28 OCT 88
COMMENTS copies to EPA
28 OCT 88

Cedar Chemical Corporation, Vicksburg Chemical Division

Groundwater Sampling, August 26-27, 1988

Well No.	Water Level
1A	107.5′
2	97.8′
4	105.5′
5	82.0′
6	83.6′
7	86.3′
8	100.8′
9	110.7′
10	107.9′
11	96.5′
12	108.5′
13	107.7′
14	106.3′
16	108.8′

ENVIRONMENTAL PROTECTION SYSTEMS
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LABORATORY REPORT

LIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 10/11/88
OCATION: Vicksburg, MS 39180 PROJECT LOCATION: Vicksburg,Ms.
COLLECTED BY: CLIENT RECEIPT DATE: 08/29/88
REPORT NO.: 3724 PAGE NO.: 1
PROJECT NO.:

TEST RESULTS	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		4722.00									
rsenic, Total	mg/l	0.003				BSC	09/07/88	16:00	0.200	104	0
Dinitrobutylphenol	ug/l	ND				SCP	10/01/88	18:31	NA	NA	NA
Methylene Chloride	ug/l	<0.01				SCP	09/08/88	11:48	0.04	114	NA
Toxaphene	ug/l	<0.24				SCP	09/06/88	17:03	3	83	NA
TEST RESULTS FOR SAMPLE LOG NUMBER:			4723.00								
Arsenic, Total	mg/l		0.003			BSC	09/07/88	16:00	0.200	104	0
Dinitrobutylphenol	ug/l		<0.5			SCP	10/01/88	18:31	NA	NA	NA
Methylene Chloride	ug/l		<0.01			SCP	09/08/88	11:48	0.04	114	NA
Toxaphene	ug/l		<0.24			SCP	09/06/88	17:03	3	83	NA

SUPPLEMENT INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

ND = Not Detected

SAMPLE DESCRIPTION:

4722.00 Well #1A
4723.00 Well #2

COLLECTION DATE/TIME:

08/26/88 08/26/88 11:45
08/26/88 08/26/88 10:40

CERTIFICATION:

John Broussard
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical and Bio-Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 10/11/88
LOCATION: Vicksburg, MS 39180 PROJECT LOCATION: Vicksburg,Ms.
COLLECTED BY: CLIENT REPORT NO.: 3725 PAGE NO.: 1
RECEIPT DATE: 08/29/88 PROJECT NO.:

TEST RESULTS	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		4724.00									
Arsenic, Total	mg/l	0.006				BSC	09/07/88	16:00	0.200	104	0
Dinitrobutylphenol	ug/l	<0.5				SCP	10/01/88	18:31	NA	NA	NA
Methylene Chloride	ug/l	<0.01				SCP	09/08/88	11:48	0.04	114	NA
Toxaphene	ug/l	<0.24				SCP	09/06/88	17:03	3	83	NA
TEST RESULTS FOR SAMPLE LOG NUMBER:			4725.00								
Arsenic, Total	mg/l		0.007			BSC	09/07/88	16:00	0.200	104	0
Dinitrobutylphenol	ug/l		<0.5			SCP	10/01/88	18:31	NA	NA	NA
Methylene Chloride	ug/l		<0.01			SCP	09/08/88	11:48	0.04	114	NA
Toxaphene	ug/l		<0.24			SCP	09/06/88	17:03	3	83	NA

SUPPLEMENT INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:

4724.00 Well #4
4725.00 Well #6

COLLECTION DATE/TIME:

08/26/88 08/26/88 09:40
08/27/88 08/27/88 07:55

CERTIFICATION:

John Broussard
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical and Bio-Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM DATE: 10/11/88 COLLECTED BY: CLIENT REPORT NO.: 3743 PAGE NO.: 1
LOCATION: Vicksburg, MS 39180 PROJECT LOCATION: Vicksburg,Ms. RECEIPT DATE: 08/29/88 PROJECT NO.:

TEST RESULTS	UNITS	LABORATORY RESULTS REGULATORY LIMIT				ANALYSIS INFORMATION ANALYST	DATE	TIME	BATCH QUALITY CONTROL SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		4726.00									
Arsenic, Total	mg/l	0.012				BSC	09/07/88	16:00	0.200	104	0
Dinitrobutylphenol	ug/l	<0.5				SCP	10/01/88	18:31	NA	NA	NA
Methylene Chloride	ug/l	<0.01				SCP	09/08/88	11:48	0.04	114	NA
Toxaphene	ug/l	<0.24				SCP	09/06/88	17:03	3	83	NA
TEST RESULTS FOR SAMPLE LOG NUMBER:			4727.00								
Arsenic, Total	mg/l		<0.003			BSC	09/07/88	16:00	0.200	104	0
Dinitrobutylphenol	ug/l		<0.5			SCP	10/01/88	18:31	NA	NA	NA
Methylene Chloride	ug/l		<0.01			SCP	09/08/88	08:12	0.04	114	NA
Toxaphene	ug/l		<0.24			SCP	09/06/88	17:03	3	83	NA

SUPPLEMENT INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:	COLLECTION DATE/TIME:
4726.00 Well #7	08/27/88 08/27/88 08:05
4727.00 Well #8	08/27/88 08/27/88 07:20

CERTIFICATION:

John Brainard
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical and Bio-Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 10/11/88 COLLECTED BY: CLIENT REPORT NO.: 3726 PAGE NO.: 1

LOCATION: Vicksburg, MS 39180 PROJECT LOCATION: Vicksburg,Ms. RECEIPT DATE: 08/29/88 PROJECT NO.:

TEST RESULTS	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		4728.00									
Arsenic, Total	mg/l	0.006				BSC	09/07/88	16:00	0.200	104	0
Dinitrobutylphenol	ug/l	<0.5				SCP	10/01/88	18:31	NA	NA	NA
Methylene Chloride	ug/l	<0.01				SCP	09/08/88	11:48	0.04	114	NA
Toxaphene	ug/l	<0.24				SCP	09/06/88	17:03	3	83	NA
TEST RESULTS FOR SAMPLE LOG NUMBER:			4729.00								
Arsenic, Total	mg/l		0.003			BSC	09/07/88	16:00	0.200	104	0
Dinitrobutylphenol	ug/l		<0.5			SCP	10/01/88	18:31	NA	NA	NA
Methylene Chloride	ug/l		<0.01			SCP	09/08/88	11:48	0.04	114	NA
Toxaphene	ug/l		<0.24			SCP	09/06/88	17:03	3	83	NA

SUPPLEMENT INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:

4728.00 Well #9
4729.00 Well #10

COLLECTION DATE/TIME:

08/27/88 08/27/88 07:30
08/26/88 08/26/88 11:00

CERTIFICATION:

John Brouard
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical and Bio-Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEDATE: 10/11/88
LOCATION: Vicksburg, MS 39180 PROJECT LOCATION: Vicksburg,Ms.
COLLECTED BY: CLIENT REPORT NO.: 3727 PAGE NO.: 1
RECEIPT DATE: 08/29/88 PROJECT NO.:

TEST RESULTS	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		4730.00									
Arsenic, Total	mg/l	0.007				BSC	09/07/88	16:00	0.200	104	0
Dinitrobutylphenol	ug/l	<0.5				SCP	10/01/88	18:31	NA	NA	NA
Methylene Chloride	ug/l	<0.01				SCP	09/08/88	11:48	0.04	114	NA
Toxaphene	ug/l	<0.24				SCP	09/06/88	17:03	3	83	NA
TEST RESULTS FOR SAMPLE LOG NUMBER:			4731.00								
Arsenic, Total	mg/l		<0.003			BSC	09/07/88	16:00	0.200	104	0
Dinitrobutylphenol	ug/l		<0.5			SCP	10/01/88	18:31	NA	NA	NA
Methylene Chloride	ug/l		<0.01			SCP	09/08/88	11:48	0.04	114	NA
Toxaphene	ug/l		<0.24			SCP	09/06/88	17:03	3	83	NA

SUPPLEMENT INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:

4730.00 Well #11
4731.00 Well #12

COLLECTION DATE/TIME:

08/26/88 08/26/88 11:20
08/26/88 08/26/88 10:50

CERTIFICATION:

John Brouard
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical and Bio-Analytical Services

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ENVIRONMENTAL PROTECTION SYSTEMS
P.O. Box 20382 • 165 Upton Drive • Jackson, MS 39209 • Telephone (601) 922-8242 • FAX (601) 922-9163

LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 10/11/88
LOCATION: Vicksburg, MS 39180 PROJECT LOCATION: Vicksburg,Ms.
COLLECTED BY: CLIENT RECEIPT DATE: 08/29/88
REPORT NO.: 3728 PROJECT NO.:
PAGE NO.: 1

TEST RESULTS	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION: ANALYST	DATE	TIME	BATCH QUALITY CONTROL: SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		4732.00									
Arsenic, Total	mg/l	0.011				BSC	09/07/88	16:00	0.200	104	0
Dinitrobutylphenol	ug/l	<0.5				SCP	10/01/88	18:31	NA	NA	NA
Methylene Chloride	ug/l	<0.01				SCP	09/08/88	11:48	0.04	114	NA
Toxaphene	ug/l	<0.24				SCP	09/06/88	17:03	3	83	NA
TEST RESULTS FOR SAMPLE LOG NUMBER:			4733.00								
Arsenic, Total	mg/l		0.003			BSC	09/07/88	16:00	0.200	104	0
Dinitrobutylphenol	ug/l		<0.5			SCP	10/01/88	18:31	NA	NA	NA
Methylene Chloride	ug/l		<0.01			SCP	09/08/88	11:48	0.04	114	NA
Toxaphene	ug/l		<0.24			SCP	09/06/88	17:03	3	83	NA

SUPPLEMENT INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:

4732.00 Well #13
4733.00 Well #14

COLLECTION DATE/TIME:

08/27/88 08/27/88 07:40
08/26/88 08/26/88 11:50

CERTIFICATION:

John Brainard
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical and Bio-Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 10/11/88 COLLECTED BY: CLIENT REPORT NO.: 3723 PAGE NO.: 1

LOCATION: Vicksburg, MS 39180 PROJECT LOCATION: Vicksburg,Ms. RECEIPT DATE: 08/29/88 PROJECT NO.:

TEST RESULTS	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		4734.00									
Arsenic, Total	mg/l	0.010				BSC	09/07/88	16:00	0.200	104	0
Dinitrobutylphenol	ug/l	<0.5				SCP	10/01/88	18:31	NA	NA	NA
Methylene Chloride	ug/l	<0.01				SCP	09/08/88	11:48	0.04	114	NA
Toxaphene	ug/l	<0.24				SCP	09/06/88	17:03	3	83	NA

SUPPLEMENT INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:

4734.00 Well #16

COLLECTION DATE/TIME:

08/26/88 08/26/88 11:30

CERTIFICATION:

John Broussard
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical and Bio-Analytical Services

This report applies only to the sample investigated and is not necessarily indicative of the quality of apparently identical or similar samples. The liability of the laboratory is limited to the amount paid for the report by the client. The client assumes all liability for the further distribution of this report or its content and by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

CEDAR CHEMICAL CORPORATION

24th Floor • 5100 Poplar Avenue • Memphis, TN 38137 • 901-685-5348

REPLY TO: P. O. BOX 3
VICKSBURG, MS 39180
(601) 636-1231

CERTIFIED MAIL
RETURN RECEIPT REQUESTED
P 677 980 763

RECEIVED
AUG 12 1988
Dept. of Natural Resources
Bureau of Pollution Control

August 9, 1988

Mr. Jack McCord
Environmental Engineer
Bureau of Pollution Control
2380 Highway 80 West
Jackson, Mississippi 39209

Subject: Commission Order No. 1253 87
Condition No. 9, Groundwater Monitoring

Dear Mr. McCord:

Please find enclosed copies of the analytical reports for Cedar's groundwater monitoring for the second quarter of 1988.

As was previously reported, Well No. 15 has been found to be contaminated with various halogenated compounds. Due to the sample matrix, our contractor cannot quantify accurately or with precision the presence of toxaphene or dinoseb. Previously, a GC-MS analysis did not confirm the presence of toxaphene in the well. Our own laboratory work indicates a dinoseb concentration of approximately 1.5 mg/l.

As has been previously discussed, Cedar has plugged and abandoned Well No. 15 and two piezometer wells which were installed through the dike of the South Pond. A new monitor well, No. 16, has been installed in a hydrologically similar (but not through the pond dike) location. Please find enclosed the abandonment reports and installation report for these wells. Well 16 will be sampled in the third quarter's sampling which is scheduled for the week of August 15, 1988.

If there are questions concerning this matter, please contact me.

Sincerely,

Steven T. Boswell

Steven T. Boswell
Director of Env. Affairs

STB: pc

DIVISION OF SOLID WASTE
REVIEWED BY
DATE 8/15/88
COMMENTS Sent to EPA in weekly mail

Cedar Chemical Corporation, Vicksburg Chemical Operation

Groundwater Sampling, June 7, 8 1988

Well No.	Water Level	Methylene Chloride ug/l	Toxaphene ug/l	Arsenic mg/l	Dinitro-Butylphenol mg/l
1A	104.8′	<0.1	<.24	<.003	3.5
2	97.4′	<0.1	<.24	<.003	<.0005
4	105.4′	<0.1	<.24	<.003	<.0005
5	83.8′	<0.1	<.24	.006	<.0005
6	85.9′	<0.1	<.24	<.003	<.0005
7	90.8′	<0.1	<.24	.009	<.0005
8	101.8′	<0.1	<.24	.015	<.0005
9	109.9′	<0.1	<.24	.003	<.0005
10	107.4′	<0.1	<.24	<.003	<.0005
11	95.6′	<0.1	<.24	.003	<.0005
12	107.8′	<0.1	<.24	<.003	<.0005
13	108.4′	<0.1	<.24	.006	<.0005
14	104.6′	<0.1	<.24	<.003	<.0005
15	102.2′	19000	<24	.007	<50

ENVIRONMENTAL PROTECTION SYSTEMS

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 06/30/88 COLLECTED BY: CLIENT REPORT NO.: 2090 PAGE NO.: 1

LOCATION: Vicksburg, MS 39180 PROJECT LOCATION: Vicksburg,Ms. RECEIPT DATE: 06/09/88 PROJECT NO.:

TEST RESULTS	UNITS	LABORATORY RESULTS				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
		REGULATORY LIMIT				ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		2670.00									
Arsenic, Total	mg/l	<0.003				BSC	06/13/88	11:30	0.200	98	0
Dinitrobutylphenol	ug/l	3500				JPB	06/21/88	23:25	5	100	NA
Methylene Chloride	ug/l	0.1				JPB	06/21/88	16:58	40	92	0
Toxaphene	ug/l	<0.24				JPB	06/20/88	18:04	6.0	83	0
TEST RESULTS FOR SAMPLE LOG NUMBER:			2671.00								
Arsenic, Total	mg/l		<0.003			BSC	06/13/88	11:30	0.200	98	0
Dinitrobutylphenol	ug/l		<0.5			JPB	06/21/88	23:25	5	100	NA
Methylene Chloride	ug/l		<0.1			JPB	06/21/88	16:58	40	92	0
Toxaphene	ug/l		<0.24			JPB	06/20/88	18:04	6.0	83	0

SUPPLEMENT INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:

2670.00 Well # 1A
2671.00 Well # 2

COLLECTION DATE/TIME:

06/08/88 06/08/88 UNK
06/07/88 06/07/88 UNK

CERTIFICATION:

John Broussard
Quality Assurance and Quality Control

Herbert B. Johnston
Analytical and Bio-Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 06/30/88
LOCATION: Vicksburg, MS 39180 PROJECT LOCATION: Vicksburg,Ms.

COLLECTED BY: CLIENT REPORT NO.: 2091 PAGE NO.: 1
RECEIPT DATE: 06/09/88 PROJECT NO.:

TEST RESULTS	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION: ANALYST	DATE	TIME	BATCH QUALITY CONTROL: SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		2672.00									
Arsenic, Total	mg/l	<0.003				BSC	06/13/88	11:30	0.200	98	0
Dinitrobutylphenol	ug/l	<0.5				JPB	06/21/88	23:25	5	100	N4
Methylene Chloride	ug/l	<0.1				JPB	06/21/88	16:58	40	92	0
Toxaphene	ug/l	0.24				JPB	06/20/88	18:04	6.0	83	0
TEST RESULTS FOR SAMPLE LOG NUMBER:			2673.00								
Arsenic, Total	mg/l		0.006			BSC	06/13/88	11:30	0.200	98	0
Dinitrobutylphenol	ug/l		<0.5			JPB	06/21/88	23:25	5	100	N4
Methylene Chloride	ug/l		<0.1			JPB	06/22/88	14:35	40	79	0
Toxaphene	ug/l		<0.24			JPB	06/20/88	18:04	6.0	83	0

SUPPLEMENT INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:

2672.00 Well #4
2673.00 Well #5

COLLECTION DATE/TIME:

06/07/88 06/07/88 UNK
06/08/88 06/08/88 UNK

CERTIFICATION:

John Broussard
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical and Bio-Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 06/30/88 COLLECTED BY: CLIENT REPORT NO.: 2092 PAGE NO.: 1

LOCATION: Vicksburg, MS 39180 PROJECT LOCATION: Vicksburg,Ms. RECEIPT DATE: 06/09/88 PROJECT NO.:

TEST RESULTS	UNITS	LABORATORY RESULTS REGULATORY LIMIT				ANALYSIS INFORMATION ANALYST	DATE	TIME	BATCH QUALITY CONTROL SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		2674.00									
Arsenic, Total	mg/l	<0.003				BSC	06/13/88	11:30	0.200	98	0
Dinitrobutylphenol	ug/l	<0.5				JPB	06/21/88	23:25	5	100	NA
Methylene Chloride	ug/l	<0.1				JPB	06/22/88	14:35	40	79	0
Toxaphene	ug/l	<0.24				JPB	06/20/88	18:04	6.0	83	0
TEST RESULTS FOR SAMPLE LOG NUMBER:			2675.00								
Arsenic, Total	mg/l		0.009			BSC	06/13/88	11:30	0.200	98	0
Dinitrobutylphenol	ug/l		<0.5			JPB	06/21/88	23:25	5	100	NA
Methylene Chloride	ug/l		<0.1			JPB	06/22/88	14:35	40	79	0
Toxaphene	ug/l		<0.24			JPB	06/20/88	18:04	6.0	83	0

SUPPLEMENT INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:

2674.00 Well #6
2675.00 Well #7

COLLECTION DATE/TIME:

06/08/88 06/08/88 UNK
06/08/88 06/08/88 UNK

CERTIFICATION:

John Broussard
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical and Bio-Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM DATE: 06/30/88 COLLECTED BY: CLIENT REPORT NO.: 2093 PAGE NO.: 1
LOCATION: Vicksburg, MS 39180 PROJECT LOCATION: Vicksburg,Ms. RECEIPT DATE: 06/09/88 PROJECT NO.:

TEST RESULTS	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		2676.00									
Arsenic, Total	mg/l	0.015				BSC	06/13/88	11:30	0.200	98	0
Dinitrobutylphenol	ug/l	<0.5				JPB	06/21/88	23:25	5	100	NA
Methylene Chloride	ug/l	<0.1				JPB	06/22/88	14:35	40	79	0
Toxaphene	ug/l	<0.24				JPB	06/20/88	18:04	6.0	83	0
TEST RESULTS FOR SAMPLE LOG NUMBER:			2677.00								
Arsenic, Total	mg/l		0.009			BSC	06/13/88	11:30	0.200	98	0
Dinitrobutylphenol	ug/l		<0.5			JPB	06/21/88	23:25	5	100	NA
Methylene Chloride	ug/l		<0.1			JPB	06/22/88	14:35	40	79	0
Toxaphene	ug/l		<0.24			JPB	06/20/88	18:04	6.0	83	0

SUPPLEMENT INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:
2676.00 Well #8
2677.00 Well #9

COLLECTION DATE/TIME:
06/08/88 06/08/88 UNK
06/08/88 06/09/88 UNK

CERTIFICATION:

John Broumard
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical and Bio-Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEM DATE: 06/30/88
LOCATION: Vicksburg, MS 39180 PROJECT LOCATION: Vicksburg,Ms.
COLLECTED BY: CLIENT RECEIPT DATE: 06/09/88
REPORT NO.: 2094 PROJECT NO.:
PAGE NO.: 1

TEST RESULTS	UNITS	LABORATORY RESULTS REGULATORY LIMIT				ANALYSIS INFORMATION ANALYST	DATE	TIME	BATCH QUALITY CONTROL SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		2678.00									
Arsenic, Total	mg/l	<0.003				BSC	06/13/88	11:30	0.200	98	0
Dinitrobutylphenol	ug/l	<0.5				JPB	06/21/88	23:25	5	100	NA
Methylene Chloride	ug/l	<0.1				JPB	06/22/88	14:35	40	79	0
Toxaphene	ug/l	<0.24				JPB	06/20/88	18:04	6.0	83	0
TEST RESULTS FOR SAMPLE LOG NUMBER:			2679.00								
Arsenic, Total	mg/l		<0.003			BSC	06/13/88	11:30	0.200	98	0
Dinitrobutylphenol	ug/l		<0.5			JPB	06/21/88	23:25	5	100	NA
Methylene Chloride	ug/l		<0.1			JPB	06/22/88	14:35	40	79	0
Toxaphene	ug/l		<0.24			JPB	06/20/88	18:04	6.0	83	0

SUPPLEMENT INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:

2678.00 Well #10
2679.00 Well #11

COLLECTION DATE/TIME:

06/07/88 06/07/88 UNK
06/07/88 06/07/88 UNK

CERTIFICATION:

John Broussard
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical and Bio-Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 06/30/88 COLLECTED BY: CLIENT REPORT NO.: 2095 PAGE NO.: 1
LOCATION: Vicksburg, MS 39180 PROJECT LOCATION: Vicksburg,Ms. RECEIPT DATE: 06/09/88 PROJECT NO.:

TEST RESULTS	UNITS	LABORATORY RESULTS				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
		REGULATORY LIMIT				ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		2680.00									
Arsenic, Total	mg/l	<0.003				BSC	06/13/88	11:30	0.200	98	0
Dinitrobutylphenol	ug/l	<0.5				JPB	06/21/88	23:25	5	100	NA
Methylene Chloride	ug/l	<0.1				JPB	06/22/88	14:35	40	79	0
Toxaphene	ug/l	<0.24				JPB	06/20/88	18:04	6.0	83	0
TEST RESULTS FOR SAMPLE LOG NUMBER:			2681.00								
Arsenic, Total	mg/l		<0.003			BSC	06/13/88	11:30	0.200	98	0
Dinitrobutylphenol	ug/l		<0.5			JPB	06/21/88	23:25	5	100	NA
Methylene Chloride	ug/l		<0.1			JPB	06/22/88	14:35	40	79	0
Toxaphene	ug/l		<0.24			JPB	06/20/88	18:04	6.0	83	0

SUPPLEMENT INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:	COLLECTION DATE/TIME:
2680.00 Well #12	06/07/88 06/07/88 UNK
2681.00 Well #14	06/08/88 06/09/88 UNK

CERTIFICATION:

John Broussard
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical and Bio-Analytical Services

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LABORATORY REPORT

CLIENT: Vicksburg Chemical Div of Celanese Chem DATE: 07/27/88
LOCATION: Vicksburg, MS 39180 PROJECT LOCATION: Vicksburg,Ms.
COLLECTED BY: CLIENT RECEIPT DATE: 07/12/88
REPORT NO.: 2458 PROJECT NO.:
PAGE NO.: 1

TEST RESULTS	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION: ANALYST	DATE	TIME	BATCH QUALITY CONTROL: SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		2680.10									
Arsenic, Total	mg/l	0.006				BSC	07/26/88	18:00	0.200	98	0
Dinitrobutylphenol	ug/l	<0.5				JPB	06/22/88	19:46	5	100	0
Methylene Chloride	ug/l	<0.1				JPB	06/23/88	18:50	40	102	0
Toxaphene	ug/l	<0.24				JPB	06/20/88	13:45	6	88	0

SUPPLEMENT INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:
2680.10 Well # 13

COLLECTION DATE/TIME:
06/07/88-06/07/88 UNK

CERTIFICATION:

Quality Assurance and Quality Control

Analytical and Bio-Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 06/30/88 COLLECTED BY: CLIENT REPORT NO.: 2089 PAGE NO.: 1

LOCATION: Vicksburg, MS 39180 PROJECT LOCATION: Vicksburg,Ms. RECEIPT DATE: 06/09/88 PROJECT NO.:

TEST RESULTS	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		2682.00									
Arsenic, Total	mg/l	0.007				BSC	06/13/88	11:30	0.200	98	0
Para-Butylphenol	ug/l	50				JPB	06/22/88	20:38	NA	NA	NA
Toluene	ug/l	24				JPB	06/20/88	18:04	6.0	83	0
Vinyl Chloride	ug/l	62.6				JPB	06/23/88	17:05	NA	NA	NA
Methylene Chloride	ug/l	19,000				JPB	06/23/88	17:05	NA	NA	NA
1,1-Dichloroethene	ug/l	13.0				JPB	06/23/88	17:05	NA	NA	NA
1,2-Dichloroethene	ug/l	570				JPB	06/23/88	17:05	NA	NA	NA
Chloroform	ug/l	100,000				JPB	06/23/88	17:05	NA	NA	NA
1,1,2-Trichloroethane	ug/l	9,200				JPB	06/23/88	17:05	NA	NA	NA

RECEIVED
JUL 5 - 1988

SUPPLEMENT INFORMATION:
Analyses were performed in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:
2682.00 Well #15

COLLECTION DATE/TIME:
06/08/88 06/09/88 UNK

CERTIFICATION:

John Broussard
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical and Bio-Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 06/30/88
LOCATION: Vicksburg, MS 39180 PROJECT LOCATION: Vicksburg,Ms.
COLLECTED BY: CLIENT REPORT NO.: 2089 PAGE NO.: 2
RECEIPT DATE: 06/09/88 PROJECT NO.:

TEST RESULTS	UNITS	LABORATORY RESULTS				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
		REGULATORY LIMIT				ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		2682.00									
Carbon Tetrachloride	ug/l	290,000				JPB	06/23/88	17:05	NA	NA	NA
Trichloroethene	ug/l	990				JPB	06/23/88	17:05	NA	NA	NA
Dibromochloromethane	ug/l	4,000				JPB	06/23/88	17:05	NA	NA	NA
Bromoform	ug/l	1,300				JPB	06/23/88	17:05	NA	NA	NA
Tetrachloroethene	ug/l	2,000				JPB	06/23/88	17:05	NA	NA	NA
1,4-Dichlorobenzene	ug/l	6.3				JPB	06/23/88	17:05	NA	NA	NA
All others Purgeables, Screen 112	ug/l	ND				JPB	06/23/88	17:05	NA	NA	NA

SUPPLEMENT INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, November 1986, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:
2682.00 Well #15

COLLECTION DATE/TIME:
06/08/88 06/09/88 UNK

CERTIFICATION:

John Broussard
Quality Assurance and Quality Control

Herbert A. Sobotka
Analytical and Bio-Analytical Services

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WARE LIND FURLOW ENGINEERS, INC.

GEOTECHNICAL AND EARTH SCIENCE CONSULTANTS

SITE ASSESSMENT • DESIGN
TECHNICAL SUPPORT • MONITORING

859 PEAR ORCHARD ROAD • POST OFFICE BOX 10115 • JACKSON, MISSISSIPPI 39206 • AREA CODE 601 956-4467

July 21, 1988

Cedar Chemical Corporation
Post Office Box 3
Vicksburg, Mississippi 39180

Report No. 88021-1

Attention: Mr. Steven T. Boswell

MONITOR WELL REPLACEMENT AND REMOVAL
CEDAR CHEMICAL CORPORATION
VICKSBURG, MISSISSIPPI

Gentlemen:

Submitted herein is the report of the installation of Monitor Well MW-16 and removal of Piezometers PZ-2 and PZ-3 and Monitor Well MW-15. The following paragraphs discuss the installation procedures for the new monitor well (MW-16) and removal procedures for the monitor well (MW-15) and piezometers (PZ-2 and PZ-3). This work was authorized by Mr. Boswell and your Purchase Order No. 01-060139 dated June 22, 1988.

Presently Cedar Chemical Corporation is proceeding with preparation of plans and specifications related to construction of improvements to the rainwater retention ponds which will include removal of sludge materials, installation of a double synthetic liner and construction of a stabilized sludge storage cell. In anticipation of implementation of these improvements to the rainwater retention ponds, we recommended to Cedar Chemical Corporation that all penetrations of the rainwater retention pond dikes be eliminated. Implementation of this recommendation required the removal of Monitor Well MW-15 and Piezometers PZ-2 and PZ-3. Locations of Monitor MW-15 and Piezometer PZ-2 and PZ-3 are shown on Plate 1.

Removal of Monitor Well MW-15 and Piezometers PZ-2 and PZ-3 were accomplished by pulling the protective metal shrouds and drilling the PVC riser pipe, screen and grout using an oversized bit. Monitor Well MW-15 was originally installed with an 8-in. surface casing. This surface casing was removed by drilling with an oversized bit. After the monitor well and piezometers were drilled out, the bore hole was grouted from the bottom up using a cement-bentonite grout using tremie methods. Cuttings from the removal of the monitor well and piezometers were placed in hazardous waste containers

and sealed. Details of the removal of Monitor Well MW-15 and Piezometers PZ-2 and PZ-3 are presented on Plates 2 through 4.

Because of removing of Monitor Well MW-15, a replacement monitor well was installed. The replacement monitor well is designated as MW-16 and is located as shown on Plate 1. Installation details are given below.

Soil stratification at the location of Monitor Well MW-16 was evaluated by means of a boring made with a truck-mounted rotary drill rig. The soil boring was advanced by rotary wash drilling techniques using a circulating fluid to flush cuttings from the hole. After the initial 14 ft of the boring was drilled and sampled a 10-in. diameter PVC surface casing was placed in a drilled hole to a depth of 14 ft. The surface casing was then pushed to a depth of 15.5 ft to provide a seal at the bottom of the casing. After the bottom seal was established, the annular space between the surface casing and bore hole was grouted in-place using a neat cement grout with bentonite. Additionally, the interior of surface casing was grouted. After the surface casing was set, the soil boring was advanced below the 14 ft depth to a terminal depth of 56 ft.

Undisturbed samples were taken in the soil boring on about 5-ft centers by pushing a 3-in. OD thin-wall Shelby tube sampler a distance of approximately 2 ft into the soil with hydraulic cylinders from the drill rig (ASTM D 1587). Depths at which these samples were taken are indicated by shaded portions in the "Samples" column of the boring log. After a Shelby tube was recovered from a boring the sample was carefully extruded in the field and examined visually. One representative portion was selected and sealed in a glass jar for return to the laboratory. A graphical log of the soil boring showing the location of samples and descriptions soils encountered is presented on Plate 5.

After the soil boring was completed, the diameter of the bore hole was increased using an 8-in. diameter drill bit. The 8-in. diameter bore hole was advanced to a depth of 56 ft. A 4-in. OD 10 ft long Schedule 40 PVC well screen with No. 10 slots was set at a bottom depth of 53 ft. This screen is connected to the surface by 4-in. diameter PVC flush joint pipe. After the screen was set at a depth of 53 ft, the annulus between the screen and the bore hole was filled with No. 3 blasting sand filter material placed by tremie method. The filter sand was placed to a depth of 40 ft which is 3 ft above the top of the screen. Subsequently, bentonite pellets were placed in the bore hole above the sand filter to a depth of 38 ft to create a 2-ft thick seal. The bentonite pellets were allowed to swell for about one hour before proceeding with the installation. The annulus above the bentonite seal was grouted with a neat cement grout containing bentonite as a suspension agent. The 4-in. OD Schedule 40 PVC riser pipe was extended approximately 2 ft above the ground surface and capped. Subsequently, a 6-in. square steel well protector was placed over the PVC riser and grouted in-place with a 2 ft x 2 ft x 4-in. thick concrete slab. The protective steel shroud was manufactured with a hinge top that is lockable. After installation of Monitor Well MW-16 was completed, the monitor well was developed by air lift method until relatively clear flow was observed emerging from the

well. Details of the installation of Monitor Well MW-16 are presented on Plate 6.

We appreciate this opportunity to provide you with our services on this project. If we can answer any questions or provide any additional data, please call on us.

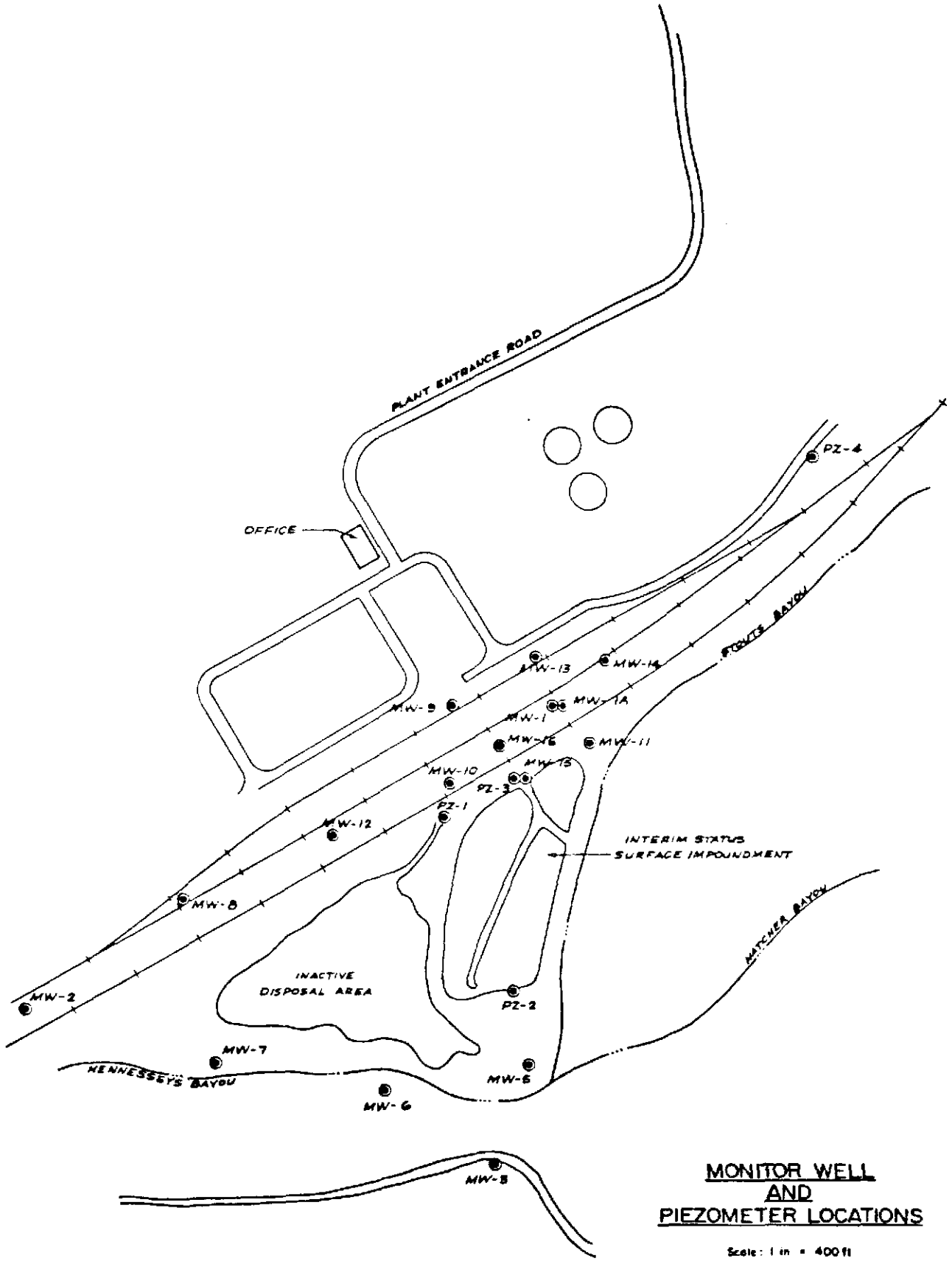
Very truly yours,

WARE LIND FURLOW ENGINEERS, Inc.

Eugene G. Wardlaw

Eugene G. Wardlaw, P. E.

EGW/tlr
Copies Submitted: (2)


PLANT ENTRANCE ROAD
OFFICE
PZ-4
MW-13
MW-14
MW-9
MW-1
MW-1A
MW-16
MW-11
MW-10
MW-15
PZ-3
PZ-1
MW-12
INTERIM STATUS
SURFACE IMPOUNDMENT
MW-8
MW-2
INACTIVE
DISPOSAL AREA
PZ-2
MW-7
HENNESSEY'S BAYOU
MW-6
MW-5
MONITOR WELL
AND
PIEZOMETER LOCATIONS
Scale: 1 in = 400 ft

WATER WELL PLUGGING AND ABANDONMENT FORM

1. WELL OWNER: (if different from owner when drilled, note in item 5)
Vicksburg Chemical PZ-2

2. LOCATION OF WELL: County: Warren, Well is Near, Cedar Chemical
Vicksburg, Mississippi
(Crossroads, Town, City, Railroad, Any Landmark, etc.)
See Plate 1
(Please draw sketch on back of Original)

3. WELL INFORMATION: Depth of hole, 56 ft, Diameter of casing 2 in.
Depth of completed well, 50 ft, Date completed 12/7/84 by
(Installed by): not known

4. Describe in detail how well or hole was plugged: (materials used amount of casing and/or screen removed, or left in hole)
PZ-2 was reamed to 55' using an 8" diameter drag bit. A cement bentonite slurry was tremied into the resultant bore hole from the bottom to the surface.(5 bags Portland Cement, 1 bag Bentonite)

5. REMARKS:

6. DATE OF ABANDONMENT (plugging) 7/8/88

7. TECHNICIAN John E. Malanchak

by Eugene A. Wardlaw Date July 21, 1988
WARE LIND FURLOW Engineering, Inc.

WATER WELL PLUGGING AND ABANDONMENT FORM

1. WELL OWNER: (if different from owner when drilled, note in item 5)
Vicksburg Chemical PZ-3

2. LOCATION OF WELL: County: Warren, Well is Near, Cedar Chemical
Vicksburg, Mississippi
(Crossroads, Town, City, Railroad, Any Landmark, etc.)
See Plate 1
(Please draw sketch on back of Original)

3. WELL INFORMATION: Depth of hole, 52 ft, Diameter of casing 2 in.
Depth of completed well, 51 ft, Date completed 12/6/84 by
(Installed by): not known

4. Describe in detail how well or hole was plugged: (materials used amount of casing and/or screen removed, or left in hole)
PZ-3 was reamed to 55' using an 8" diameter drag bit. A cement bentonite slurry was tremied into the resultant bore hole from the bottom to the surface.(5 bags Portland Cement, 1 bag Bentonite)

5. REMARKS:

6. DATE OF ABANDONMENT (plugging) 7/8/88

7. TECHNICIAN John E. Malanchak

by Eugene H. Wardlaw Date July 21, 1988
WARE LIND FURLOW Engineering, Inc.

WATER WELL PLUGGING AND ABANDONMENT FORM

1. WELL OWNER: (if different from owner when drilled, note in item 5)

Vicksburg Chemical MW-15

2. LOCATION OF WELL: County: Warren , Well is Near, Cedar Chemical

Vicksburg, Mississippi
(Crossroads, Town, City, Railroad, Any Landmark, etc.)

See Plate 1
(Please draw sketch on back of Original)

3. WELL INFORMATION: Depth of hole, 48 ft, Diameter of casing 4 in.

Depth of completed well, 48 ft, Date completed 12/02/86 by

(Installed by): Ware Lind Furlow Engineers, Inc.

4. Describe in detail how well or hole was plugged: (materials used amount of casing and/or screen removed, or left in hole)

MW-15 was reamed to 48' using a modified 7 " diameter drag bit with a 2' long stinger. The 8" surface casing was reamed to total depth (14') using a 10" diameter drag bit. A cem/bent grout was tremied

5. REMARKS: Into the reultant bore hole from the bottom to the surface (well bore hole 5 bags Portland cement, 1 bag bentonite; surface casing bore hole, 4 bags Portland cement, 1 bag bentonite

6. DATE OF ABANDONMENT (plugging) 7/5/88 & 7/6/88

7. TECHNICIAN John E. Malanchak

by Eugene F. Wardlaw Date July 21, 1988

WARE LIND FURLOW Engineering, Inc.

LOG OF BORING NO. MW-16
VICKSBURG CHEMICAL
VICKSBURG, MISSISSIPPI

TYPE: Rotary wash & Shelby tube

LOCATION: See Plate 1

DEPTH, FT.	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL	BLOWS PER FT	UNIT DRY WEIGHT LB/CU FT	COHESION, KIPS/SQ FT (1, 2, 3, 4) / PLASTIC LIMIT — WATER CONTENT, % — LIQUID LIMIT (20, 40, 60, 80)	ELEVATION, FT
			Meduim dense tan silt				
10			Loose tan clayey silt -brown clayey silt, occasional wood below 12'				
15			Firm tan silty clay -stiff below 17'				
20							
25			Very stiff gray clay				
30			Medium dense tan clayey silt, with silty fine sand seams				
35			Stiff gray clay -light grayish green clay below 37'				
40							
50			Medium dense green silty fine sand w/shell fragments				
60			Hard light grayish green silty clay, w/shell fragments and occasional lithified ledges				

Note: Scale Change

COMPLETION DEPTH: 56 ft
DATE: 7/5/88

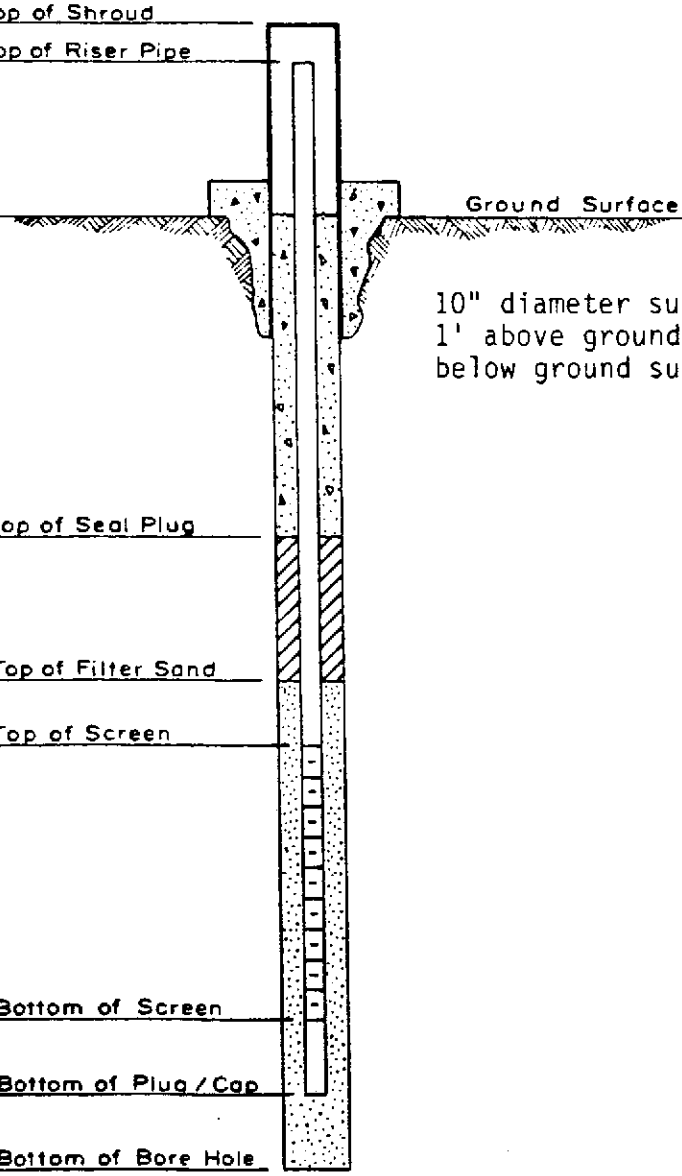
DEPTH TO WATER IN BORING: 7.4 ft after 20 min.
DATE: 7/5/88

LOG OF GROUNDWATER OBSERVATION WELL

Project & Location Vicksburg Chemical Vicksburg, Mississippi
Client Vicksburg Chemical Date of Report 7/15/88

Observation Well No. 16 Date Completed 7/16/88 Technician J. Malanchak
Riser Pipe: Material PVC Diameter 4 in. Type of Joints thread
Screen: Material PVC Slot Size .010" Diameter 4 in. Length 10 ft
Diameter of Borehole 8 in. Type of Filter Pack No. 3 blasing sand
Method of Placement of Filter Material 1¼" PVC tremie pipe
Type of Seal Above Screen bentonite pellets Backfill Above Seal cement/bentonite
Drilling Mud _____ used. Fresh Water Flush Before Setting Well Screen yes
Well Developed by air lift Development Time 1½ hrs
Groundwater Level @ 2 hrs N/A @ 24 hrs _____ Other _____

ELEV, MSL / DEPTH, FT	FEATURE	GENERALIZED SOIL STRATIFICATION	DEPTH, FT
25	Top of Shroud		
2	Top of Riser Pipe		
		Ground Surface	
		10" diameter surface casing from 1' above ground to a depth of 15' below ground surface	
38	Top of Seal Plug		
40	Top of Filter Sand		
43	Top of Screen		
52	Bottom of Screen		
53	Bottom of Plug / Cap		
56	Bottom of Bore Hole		



WARE LINE FORLOW ENGINEERS

CEDAR CHEMICAL CORPORATION

24th Floor • 5100 Poplar Avenue • Memphis, TN 38137 • 901-685-5348

REPLY TO: P. O. BOX 3
VICKSBURG, MS 39180
(601) 636-1231

RECEIVED
MAY 11 1988
Dept. of Natural Resources
Bureau of Pollution Control

CERTIFIED MAIL
RETURN RECEIPT REQUESTED
P 113 213 020

May 9, 1988

Mr. Jack McCord
Environmental Engineer
Bureau of Pollution Control
2380 Highway 80 West
Jackson, Mississippi 39209

Subject: Commission Order No. 1253 87
Condition No. 9, Groundwater Monitoring

Dear Mr. McCord:

Please find enclosed copies of the analytical reports for Cedar's groundwater monitoring for the first quarter of 1988.

As was previously reported, Well No. 15 has been found to be contaminated with various halogenated compounds. Due to the sample matrix, our contractor cannot quantify accurately or with precision the presence of toxaphene or dinoseb. Previously, a GC-MS analysis did not confirm the presence of toxaphene in the well. Our own laboratory work indicates a dinoseb concentration of approximately 1.5 mg/l.

To define the extent of contamination at this site, Cedar will install at least one new groundwater monitoring well in the area of this well. The location and interval to be monitored will be selected by our contractor, Ware, Lind Furlow. We will certainly welcome discussion with Bureau staff concerning this matter.

If there are questions concerning this matter, please contact me.

Sincerely,

Steven T. Boswell

Steven T. Boswell
Director of Env. Affairs

STB: pc

Cedar Chemical Corporation, Vicksburg Chemical Operation

Groundwater Sampling, March 18, 1988

Well No.	Water Level	Methylene Chloride ug/l	Toxaphene ug/l	Arsenic mg/l	Dinitro-Butylphenol mg/l
1A	107.9′	<0.1	<0.48	<0.003	4.0
2	99.2′	<0.1	<0.48	<0.003	<.001
4	106.8′	<0.1	<0.48	<0.003	<.001
5	87.6′	<0.1	<0.48	<0.003	<.001
6	91.8′	<0.1	<0.48	<0.003	<.001
7	94.6′	<0.1	<0.48	0.005	<.001
8	103.7′	<0.1	<0.48	<0.003	<.001
9	106.9′	<0.1	<0.48	<0.003	<.001
10	109.5′	<0.1	<0.48	<0.003	<.001
11	98.7′	<0.1	<0.48	0.005	<.001
12	110.2′	<0.1	<0.48	<0.003	<.001
13	110.2′	<0.1	<0.48	<0.003	<.001
14	107.5′	<0.1	<0.48	<0.003	<.001
15	105.0′	13000	<48	0.016	<100.0

ENVIRONMENTAL PROTECTION SYSTEMS

P.O. Box 20382 • 165 Upton Drive • Jackson, MS 39209 • Telephone (601) 922-8242 • FAX (601) 922-9163

LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEMICAL DATE: 04/15/88 COLLECTED BY: CLIENT REPORT NO.: 642 PAGE NO.: 1

LOCATION: Vicksburg, MS 39180 PROJECT LOCATION: Vicksburg,Ms RECEIPT DATE: 03/22/88 PROJECT NO.:

TEST RESULTS	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		764.00									
Arsenic, Total	mg/l	<0.003				BSC	04/07/88	10:00	0.200	104	0
Dinitrobutylphenol	ug/l	4000				JPB	03/30/88	19:44	5	100	NA
Methylene Chloride	ug/l	<0.1				JPB	04/07/88	09:11	40	91	0
Toxaphene	ug/l	<0.48				JPB	04/05/88	18:06	0.6	100	0

SUPPLEMENT INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, July, 1984, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:

764.00 Groundwater monitoring well # 1A

COLLECTION DATE/TIME:

03/22/88-03/22/88 UNK

CERTIFICATION:

John Brouard
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical and Bio-Analytical Services

This report applies only to the sample investigated and is not necessarily indicative of the quality of apparently identical or similar samples. The liability of the laboratory is limited to the amount paid for the report by the client. The client assumes all liability for the further distribution of this report or its content and by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEMICAL DATE: 04/15/88
LOCATION: Vicksburg, MS 39180 PROJECT LOCATION: Vicksburg,Ms.

COLLECTED BY: CLIENT
RECEIPT DATE: 03/22/88

REPORT NO.: 643 PAGE NO.: 1
PROJECT NO.:

TEST RESULTS	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		765.00									
Arsenic, Total	mg/l	<0.003				BSC	04/07/88	10:00	0.200	104	0
Dinitrobutylphenol	ug/l	<1				JPB	03/30/88	19:44	5	100	NA
Methylene Chloride	ug/l	<0.1				JPB	04/07/88	09:11	40	91	0
Toxaphene	ug/l	<0.48				JPB	04/05/88	18:06	0.6	100	0

SUPPLEMENT INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, July, 1984, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:

765.00 Groundwater monitoring well # 2

COLLECTION DATE/TIME:

03/22/88-03/22/88 UNK

CERTIFICATION:

John Broumard
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical and Bio-Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEMICAL DATE: 04/15/88
LOCATION: Vicksburg, MS 39180 PROJECT LOCATION: Vicksburg,Ms.

COLLECTED BY: CLIENT REPORT NO.: 644 PAGE NO.: 1
RECEIPT DATE: 03/22/88 PROJECT NO.:

TEST RESULTS	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION: ANALYST	DATE	TIME	BATCH QUALITY CONTROL: SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		766.00									
nic, Total	mg/l	<0.003				BSC	04/07/88	10:00	0.200	104	0
Dinitrobutylphenol	ug/l	<1				JPB	03/30/88	19:44	5	100	NA
Methylene Chloride	ug/l	<0.1				JPB	04/07/88	09:11	40	91	0
Toxaphene	ug/l	<0.48				JPB	04/05/88	18:06	0.6	10(	0

SUPPLEMENT INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, July, 1984, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:

766.00 Groundwater monitoring well # 4

COLLECTION DATE/TIME:

03/22/88-03/22/88 UNK

CERTIFICATION:

John Brainard
Quality Assurance and Quality Control

Robert A. Johnston
Analytical and Bio-Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEMICAL DATE: 04/15/88
LOCATION: Vicksburg, MS 39180 PROJECT LOCATION: Vicksburg,Ms.
COLLECTED BY: CLIENT REPORT NO.: 645 PAGE NO.: 1
RECEIPT DATE: 03/22/88 PROJECT NO.:

TEST RESULTS	UNITS	LABORATORY RESULTS				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
		REGULATORY LIMIT				ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		767.00									
Arsenic, Total	mg/l	<0.003				BSC	04/07/88	10:00	0.200	104	0
Dinitrobutylphenol	ug/l	<1				JPB	03/30/88	19:44	5	100	NA
Methylene Chloride	ug/l	<0.1				JPB	04/07/88	09:11	40	91	0
Toxaphene	ug/l	<0.48				JPB	04/05/88	18:06	0.6	100	0

SUPPLEMENT INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, July, 1984, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:

767.00 Groundwater monitoring well # 5

COLLECTION DATE/TIME:

03/22/88-03/22/88 UNK

CERTIFICATION:

John Broumard
Quality Assurance and Quality Control

Robert A. Johnston
Analytical and Bio-Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEMICAL DATE: 04/15/88
LOCATION: Vicksburg, MS 39180 PROJECT LOCATION: Vicksburg,Ms.
COLLECTED BY: CLIENT RECEIPT DATE: 03/22/88
REPORT NO.: 646 PROJECT NO.: PAGE NO.: 1

TEST RESULTS	UNITS	LABORATORY RESULTS				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
		REGULATORY LIMIT				ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		768.00									
Arsenic, Total	mg/l	<0.003				BSC	04/07/88	10:00	0.200	104	0
Dinitrobutylphenol	ug/l	<01				JPB	03/30/88	19:44	5	100	NA
Methylene Chloride	ug/l	<0.1				JPB	04/07/88	09:11	40	91	0
Toxaphene	ug/l	<0.48				JPB	04/05/88	18:06	0.6	100	0

SUPPLEMENT INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, July, 1984, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:
768.00 Groundwater monitoring well # 6

COLLECTION DATE/TIME:
03/22/88-03/22/88 UNK

CERTIFICATION:

John Bouvard
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical and Bio-Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEMICAL DATE: 04/15/88 COLLECTED BY: CLIENT REPORT NO.: 647 PAGE NO.: 1

LOCATION: Vicksburg, MS 39180 PROJECT LOCATION: Vicksburg,Ms. RECEIPT DATE: 03/22/88 PROJECT NO.:

TEST RESULTS	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		769.00									
Arsenic, Total	mg/l	0.005				BSC	04/07/88	10:00	0.200	104	0
Dinitrobutylphenol	ug/l	<1				JPB	03/30/88	19:44	5	100	NA
Methylene Chloride	ug/l	<0.1				JPB	04/07/88	09:11	40	91	0
Toxaphene	ug/l	<0.48				JPB	04/05/88	18:06	0.6	100	0

SUPPLEMENT INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, July, 1984, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:

769.00 Groundwater monitoring well # 7

COLLECTION DATE/TIME:

03/22/88-03/22/88 UNK

CERTIFICATION:

John Broumard
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical and Bioanalytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEMICAL DATE: 04/15/88
LOCATION: Vicksburg, MS 39180 PROJECT LOCATION: Vicksburg,Ms.
COLLECTED BY: CLIENT REPORT NO.: 648 PAGE NO.: 1
RECEIPT DATE: 03/22/88 PROJECT NO.:

TEST RESULTS	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		770.00									
[illegible]nic, Total	mg/l	<0.003				BSC	04/07/88	10:00	0.200	104	0
Dinitrobutylphenol	ug/l	<1				JPB	03/30/88	19:44	5	100	NA
Methylene Chloride	ug/l	<0.1				JPB	04/07/88	09:11	40	91	0
Toxaphene	ug/l	<0.48				PB	04/05/88	18:06	0.6	100	0

SUPPLEMENT INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, July, 1984, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:
770.00 Groundwater monitoring well # 8

COLLECTION DATE/TIME:
03/22/88-03/22/88 UNK

CERTIFICATION:
John Brouard
Quality Assurance and Quality Control
Herbert A. Johnston
Analytical and Bio-Analytical Services

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEMICAL DATE: 04/15/88 COLLECTED BY: CLIENT REPORT NO.: 649 PAGE NO.: 1

LOCATION: Vicksburg, MS 39180 PROJECT LOCATION: Vicksburg,Ms. RECEIPT DATE: 03/22/88 PROJECT NO.:

TEST RESULTS	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		771.00									
Arsenic, Total	mg/l	<0.003				BSC	04/07/88	10:00	0.200	104	0
Dinitrobutylphenol	ug/l	<1				JPB	03/30/88	19:44	5	100	NA
Methylene Chloride	ug/l	<0.1				JPB	04/07/88	09:11	40	91	0
Toxaphene	ug/l	<0.48				JPB	04/05/88	18:06	0.6	100	0

SUPPLEMENT INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, July, 1984, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:

771.00 Groundwater monitoring well # 9

COLLECTION DATE/TIME:

03/22/88-03/22/88 UNK

CERTIFICATION:

John Broussard
Quality Assurance and Quality Control

Robert A. Johnston
Analytical and Bio-Analytical Services

This report applies only to the sample investigated and is not necessarily indicative of the quality of apparently identical or similar samples. The liability of the laboratory is limited to the amount paid for the report by the client. The client assumes all liability for the further distribution of this report or its content and by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

ENVIRONMENTAL PROTECTION SYSTEMS

P.O. Box 20382 • 165 Upton Drive • Jackson, MS 39209 • Telephone (601) 922-8242 • FAX (601) 922-9163

LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEMICAL DATE: 04/15/88 COLLECTED BY: CLIENT REPORT NO.: 650 PAGE NO.: 1

LOCATION: Vicksburg, MS 39180 PROJECT LOCATION: Vicksburg,Ms. RECEIPT DATE: 03/22/88 PROJECT NO.:

TEST RESULTS	UNITS	LABORATORY RESULTS REGULATORY LIMIT				ANALYSIS INFORMATION ANALYST	DATE	TIME	BATCH QUALITY CONTROL SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		772.00									
Arsenic, Total	mg/l	<0.003				BSC	04/07/88	10:00	0.200	104	0
Dinitrobutylphenol	ug/l	<1				JPB	03/30/88	19:44	5	100	NA
Methylene Chloride	ug/l	<0.1				JPB	04/07/88	09:11	40	91	0
Toxaphene	ug/l	<0.48				JPB	04/05/88	18:06	0.6	100	0

SUPPLEMENT INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, July, 1984, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:

772.00 Groundwater monitoring well # 10

COLLECTION DATE/TIME:

03/22/88-03/22/88 UNK

CERTIFICATION:

John Brouard
Quality Assurance and Quality Control

Hubert A. Johnston
Analytical and Bio-Analytical Services

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ENVIRONMENTAL PROTECTION SYSTEMS

P.O. Box 20382 • 165 Upton Drive • Jackson, MS 39209 • Telephone (601) 922-8242 • FAX (601) 922-9163

LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEMICAL DATE: 04/15/88
LOCATION: Vicksburg, MS 39180 PROJECT LOCATION: Vicksburg,Ms.

COLLECTED BY: CLIENT REPORT NO.: 651 PAGE NO.: 1
RECEIPT DATE: 03/22/88 PROJECT NO.:

TEST RESULTS	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION: ANALYST	DATE	TIME	BATCH QUALITY CONTROL: SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		773.00									
Arsenic, Total	mg/l	0.005				BSC	04/07/88	10:00	0.200	104	0
Dinitrobutylphenol	ug/l	<1				JPB	03/30/88	19:44	5	100	NA
Methylene Chloride	ug/l	<0.1				JPB	04/07/88	09:11	40	91	0
Toxaphene	ug/l	<0.48				JPB	04/05/88	18:06	0.6	100	0

SUPPLEMENT INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, July, 1984, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:

773.00 Groundwater monitoring well # 11

COLLECTION DATE/TIME:

03/22/88-03/22/88 UNK

CERTIFICATION:

John Broumard
Quality Assurance and Quality Control

Robert A. Johnston
Analytical and Bio-Analytical Services

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ENVIRONMENTAL PROTECTION SYSTEMS

P.O. Box 20382 • 165 Upton Drive • Jackson, MS 39209 • Telephone (601) 922-8242 • FAX (601) 922-9163

LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEMDATE: 04/15/88 COLLECTED BY: CLIENT REPORT NO.: 652 PAGE NO.: 1

LOCATION: Vicksburg, MS 39180 PROJECT LOCATION: Vicksburg,Ms. RECEIPT DATE: 03/22/88 PROJECT NO.:

TEST RESULTS	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
						ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		774.00									
Arsenic, Total	mg/l	<0.003				BSC	04/07/88	10:00	0.200	104	0
Dinitrobutylphenol	ug/l	<1				JPB	03/30/88	19:44	5	100	NA
Methylene Chloride	ug/l	<0.1				JPB	04/07/88	09:11	40	91	0
Toxaphene	ug/l	<0.48				JPB	04/05/88	18:06	0.6	100	0

SUPPLEMENT INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, July, 1984, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:

774.00 Groundwater monitoring well # 12

COLLECTION DATE/TIME:

03/22/88-03/22/88 UNK

CERTIFICATION:

John Broussard
Quality Assurance and Quality Control

Robert C. Johnston
Analytical and Bio-Analytical Services

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ENVIRONMENTAL PROTECTION SYSTEMS

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LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEMICAL DATE: 04/15/88
LOCATION: Vicksburg, MS 39180 PROJECT LOCATION: Vicksburg,Ms.
COLLECTED BY: CLIENT REPORT NO.: 653 PAGE NO.: 1
RECEIPT DATE: 03/22/88 PROJECT NO.:

TEST RESULTS	UNITS	LABORATORY RESULTS				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
		REGULATORY LIMIT				ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		775.00									
Arsenic, Total	mg/l	<0.003				BSC	04/07/88	10:00	0.200	104	0
Dinitrobutylphenol	ug/l	<1				JPB	03/30/88	19:44	5	100	NA
Methylene Chloride	ug/l	<0.1				JPB	04/07/88	09:11	40	91	0
Toxaphene	ug/l	<0.48				JPB	04/05/88	18:06	0.6	100	0

SUPPLEMENT INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, July, 1984, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:

775.00 Groundwater monitoring well # 13

COLLECTION DATE/TIME:

03/22/88-03/22/88 UNK

CERTIFICATION:

John Brouard
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical and Bio-Analytical Services

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ENVIRONMENTAL PROTECTION SYSTEMS

P.O. Box 20382 • 165 Upton Drive • Jackson, MS 39209 • Telephone (601) 922-8242 • FAX (601) 922-9163

LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHEMICAL
LOCATION: Vicksburg, MS 39180
DATE: 04/15/88
PROJECT LOCATION: Vicksburg,Ms.
COLLECTED BY: CLIENT
RECEIPT DATE: 03/22/88
REPORT NO.: 654
PROJECT NO.:
PAGE NO.: 1

TEST RESULTS	UNITS	LABORATORY RESULTS				ANALYSIS INFORMATION			BATCH QUALITY CONTROL		
		REGULATORY LIMIT				ANALYST	DATE	TIME	SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		776.00									
Arsenic, Total	mg/l	<0.003				BSC	04/07/88	10:00	0.200	104	0
Dinitrobutylphenol	ug/l	<1				JPB	03/30/88	19:44	5	100	NA
Methylene Chloride	ug/l	<0.1				JPB	04/07/88	09:11	40	91	0
Toxaphene	ug/l	<0.48				JPB	04/05/88	18:06	0.6	100	0

SUPPLEMENT INFORMATION:

Analyses conducted in accordance with 40 CFR, Part 261, July, 1984, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:

776.00 Groundwater monitoring well # 14

COLLECTION DATE/TIME:

03/22/88-03/22/88 UNK

CERTIFICATION:

John Brouyard
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical and Bio-Analytical Services

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ENVIRONMENTAL PROTECTION SYSTEMS

LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE[illegible] DATE: 04/15/88
LOCATION: Vicksburg, MS 39180 PROJECT LOCATION: Vicksburg,Ms.

COLLECTED BY: CLIENT
RECEIPT DATE: 03/22/88

REPORT NO.: 655 PAGE NO.: 1
PROJECT NO.:

TEST RESULTS	UNITS	LABORATORY RESULTS / REGULATORY LIMIT				ANALYSIS INFORMATION: ANALYST	DATE	TIME	BATCH QUALITY CONTROL: SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		777.00									
Arsenic, Total	mg/l	0.016				BSC	04/07/88	10:00	0.200	104	0
Dinitrobutylphenol	mg/l	<100				JPB	03/30/88	19:44	5	100	NA
Toxaphene	ug/l	<48				JPB	04/05/88	18:06	0.6	100	0
Vinyl Chloride	ug/l	33.4				JPB	04/07/88	09:11	40	91	0
Methylene Chloride	ug/l	13,000				JPB	04/07/88	09:11	40	91	0
1,1-Dichloroethene	ug/l	9.9				JPB	04/07/88	09:11	40	91	0
1,2-Dichloroethene	ug/l	430				JPB	04/07/88	09:11	40	91	0
Chloroform	ug/l	170,000				JPB	04/07/88	09:11	40	91	0
1,1,1-Trichloroethane	ug/l	7,700				JPB	04/07/88	09:11	40	91	0

SUPPLEMENT INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, July, 1984, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:
777.00 Gro[illegible]ter monitoring well # 15

COLLECTION DATE/TIME:
03/22/88-03/22/88

CERTIFICATION:

John Brownard
Quality Assurance and Quality Co[illegible]

Herbert R. Johnston
Analytical and Bio-Analytical Services

ENVIRONMENTAL PROTECTION SYSTEMS

P.O. Box 20382 • 165 Upton Drive • Jackson, MS 39209 • Telephone (601) 922-8242 • FAX (601) 922-9163

LABORATORY REPORT

CLIENT: VICKSBURG CHEMICAL DIV OF CEDAR CHE DATE: 04/15/88
LOCATION: Vicksburg, MS 39180 PROJECT LOCATION: Vicksburg,Ms.
COLLECTED BY: CLIENT RECEIPT DATE: 03/22/88
REPORT NO.: 655 PROJECT NO.:
PAGE NO.: 2

TEST RESULTS	UNITS	LABORATORY RESULTS REGULATORY LIMIT				ANALYSIS INFORMATION ANALYST	DATE	TIME	BATCH QUALITY CONTROL SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
TEST RESULTS FOR SAMPLE LOG NUMBER:		777.00									
Carbon Tetrachloride	ug/l	230,000				JPB	04/07/88	09:11	40	91	0
Trichloroethene	ug/l	3,200				JPB	04/07/88	09:11	40	91	0
Dibromochloromethane	ug/l	1,200				JPB	04/07/88	09:11	40	91	0
Bromoform	ug/l	1,900				JPB	04/07/88	09:11	40	91	0
Tetrachloroethene	ug/l	4,300				JPB	04/07/88	09:11	40	91	0
All others Purgeables, Screen 112	ug/l	<1.0				JPB	04/07/88	09:11	40	91	0

SUPPLEMENT INFORMATION:
Analyses conducted in accordance with 40 CFR, Part 261, July, 1984, "Test Methods for Evaluating Solid Waste" (SW-846).

SAMPLE DESCRIPTION:
777.00 Groundwater monitoring well # 15

COLLECTION DATE/TIME:
03/22/88-03/22/88 UNK

CERTIFICATION:

John Broussard
Quality Assurance and Quality Control

Herbert A. Johnston
Analytical and Bio-Analytical Services

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CEDAR CHEMICAL CORPORATION

24th Floor • 5100 Poplar Avenue • Memphis, TN 38137 • 901-685-5348

REPLY TO: P. O. BOX 3
VICKSBURG, MS 39180
(601) 636-1231

RECEIVED
FEB - 2 1988
Dept. of Natural Resources
Bureau of Pollution Control

CERTIFIED MAIL
RETURN RECEIPT REQUESTED
P 113 213 026

Mr. Charles Estes, P.E.
Division of Solid Waste Management
Hazardous Waste Section
Bureau of Pollution Control
2380 U.S. Highway 80 West
Jackson, Mississippi 39209

January 29, 1988

Subject: Cedar Chemical Corp. Groundwater Monitoring
Commission Order No. 1253 87, Condition 9

Dear Mr. Estes:

As we discussed by telephone yesterday, January 29, 1988, Cedar has detected contamination in Monitor Well 15. This is one of the three most recently installed wells required by Commission Order No. 1046 86. The well is located on the western edge of the South Pond at the Vicksburg plant and has been erroneously described as No. 13 in previous correspondence. A diagram showing the well location is attached.

The contaminants indicated are methylene chloride at 175 ppb, dinitro-butylphenol at less than 50 ppm and toxaphene at less than 24 ppb. The contractor 's laboratory was unable to closely quantify the amounts of DNBP and toxaphene in the sample from Well 15 due to interferences. The laboratory report is attached. A sample from the well has been submitted for GC-MS analysis to aid in identification of contaminants.

Additionally, the level of dinitro-butylphenol in Well 1A indicates an order of magnitude difference in concentration from previous analyses. We have analyzed this well and find about one-tenth of the level reported by our contractor's laboratory. No other wells showed concentrations above 0.5 ppb for DNBP. No other wells but Well 15 showed methylene chloride at concentrations above 0.1 ppb.

No wells showed arsenic concentrations exceeding drinking water standards. The highest was No.8 at 39 ppb.

In order to evaluate the contamination at Well 15, Cedar will retain the services of a professional hydrogeologist and will develop a plan of action to determine if Well 15 is yielding a representative sample of groundwater. Additionally, locations for extra wells will be evaluated

to help determine the extent of any plume that may have formed. As soon as this plan is defined, we would like to meet with you and your staff to discuss it.

If there are questions concerning this matter, please contact me.

Sincerely,

Steven T. Boswell

Steven T. Boswell
Director of Env. Affairs

STB: pc

Attachments

Cedar Chemical Corporation, Vicksburg Chemical Operation

Groundwater Sampling, December 22, 1987

Well No.	Water Level	Methylene Chloride ug/l	Toxaphene ug/l	Arsenic mg/l	Dinitro-Butylphenol mg/l
1A	108.1′	<4.0	<0.24	0.003	5.5
2	96.3′	<4.0	<0.24	0.003	<.0005
4	104.9′	<4.0	<0.24	<0.003	<.0005
5	84.7′	<4.0	<0.24	0.007	<.0005
6	85.7′	<4.0	<0.24	0.005	<.0005
7	91.7′	<4.0	<0.24	0.013	<.0005
8	102.6′	<4.0	<0.24	0.039	<.0005
9	111.4′	<4.0	<0.24	0.004	<.0005
10	108.8′	<4.0	<0.24	0.005	<.0005
11	98.5′	<4.0	<0.24	<.012	<.0005
12	109.6′	<4.0	<0.24	0.005	<.0005
13	107.7′	<4.0	<0.24	0.005	<0.0005
14	106.8′	<4.0	<0.24	<0.003	<.0005
15	105.8′	175	<24.0	0.023	<50.0

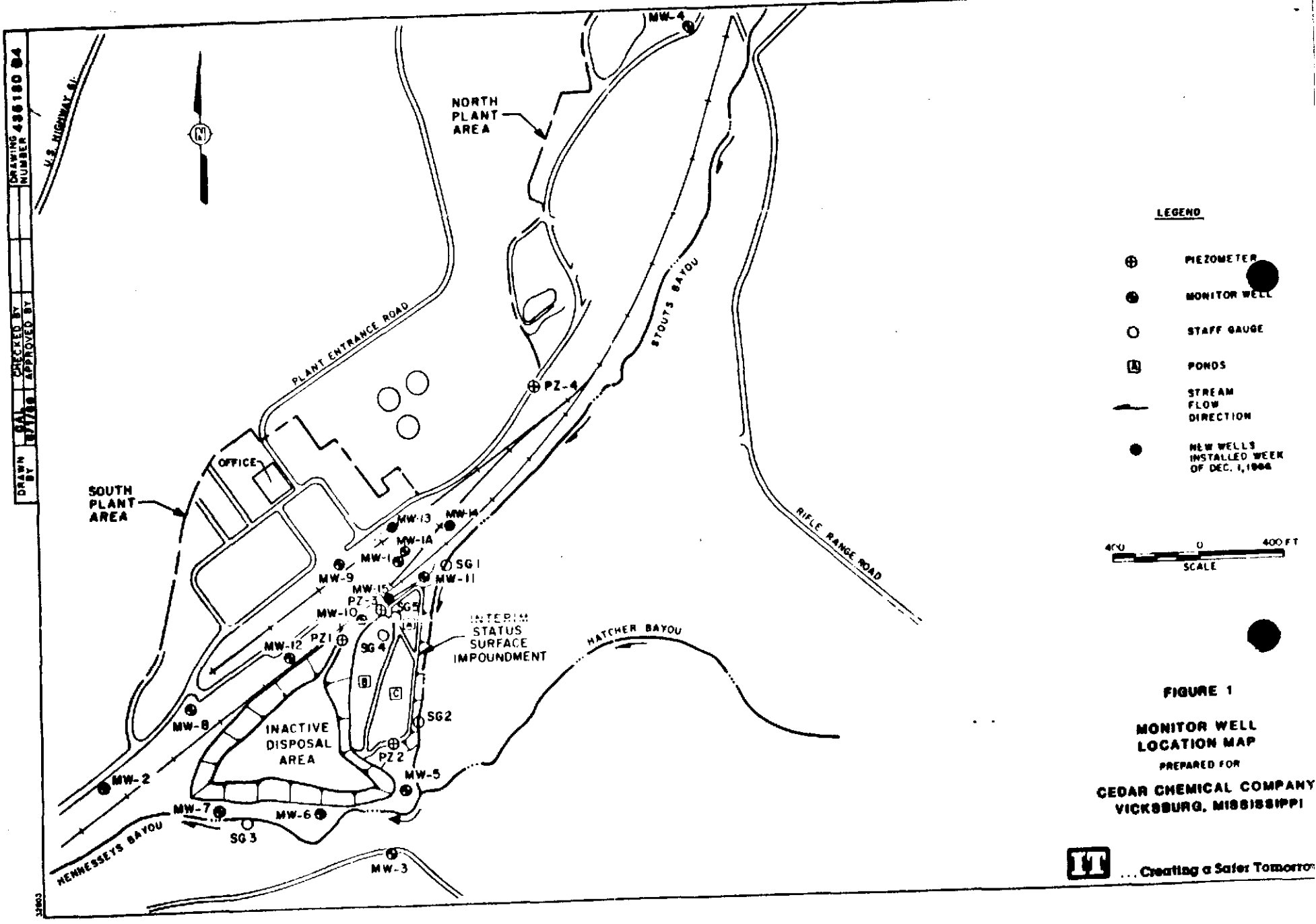

FIGURE 1

MONITOR WELL LOCATION MAP

PREPARED FOR

CEDAR CHEMICAL COMPANY
VICKSBURG, MISSISSIPPI

IT ... Creating a Safer Tomorrow

CEDAR CHEMICAL CORPORATION

24th Floor • 5100 Poplar Avenue • Memphis, TN 38137 • 901-685-5348

REPLY TO: P. O. BOX 3
VICKSBURG, MS 39180
(601) 636-1231

CERTIFIED MAIL
RETURN RECEIPT REQUESTED
P 113 212 029

RECEIVED
MAR - 9 1988
Dept. of Natural Resources
Bureau of Pollution Control

March 8, 1988

Mr. Jack McCord
Environmental Engineer
Bureau of Pollution Control
2380 Highway 80 West
Jackson, Mississippi 39209

Subject: Commission Order No. 1253 87
Condition No. 9, Groundwater Monitoring

Dear Mr. McCord:

Please find enclosed copies of the analytical report detailing the findings of the GC-MS run on Cedar's Monitor Well No.15. It is interesting to note that toxaphene was not found at reportable levels in this sampling. Several other halogenated species were found including methylene chloride. The source of these compounds is yet unknown.

Cedar has engaged the firm of Ware Lind Furlow to provide hydrogeological and other technical services to determine the source or sources of this contamination. Once the source has been identified, a remedial action plan can be developed.

If there are questions concerning this matter, please contact me.

Sincerely,

Steven T. Boswell

STB: pc

Steven T. Boswell
Director of Env. Affairs

DIVISION OF SOLID WASTE
REVIEWED BY
DATE 3-9-88
COMMENTS Sent to EPA
in weekly mail 3-11-88

ENVIRONMENTAL PROTECTION SYSTEMS, INC.

ANALYTICAL DIVISION
P.O. Box 20382 • 160 Upton Drive
Jackson, Mississippi 39209
(601) 922-8242

ANALYTICAL DIVISION
7215 Pine Forest Road
Pensacola, Florida 32506
(904) 944-0301

LABORATORY REPORT

88.1.0430 | 1/2

CLIENT: Cedar Chemical Corp.
LOCATION: Vicksburg, MS
DATE: 02/25/88
INVOICE NO: 017840/cb

COLLECTED BY: Client (7954)
DATE COLLECTED: 01/18/88
DATE RECEIVED: 01/19/88
DATE ANALYZED: 02/23/88

LABORATORY SAMPLE IDENTIFICATION

88017732 - Groundwater

ANALYSES	IDENTIFICATION NO. 7732				QUALITY CONTROL: STANDARD OR SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
Bis(2-Ethylhexyl)Phthalate, ug/l	110						
Di-n-butyl Phthalate, ug/l	614						
All others Base/Neutrals Extractables Screen 110, ug/l	<10						
A[redacted]xtractables, Screen 111, ug/l	<10						
Carbon Tetrachloride, mg/l	1.66						
Chloroform, mg/l	28.6						
1, 3-Dichlorobenzene, ug/l	85.4						
1, 1, 2-Trichloroethane, mg/l	7.32						
1, 4-Dichlorobenzene, ug/l	13.3						
Methylene Chloride, mg/l	1.1						

COMMENT

Analyses conducted in accordance with 40 CFR, Part 261, November, 1986, Test Methods for Evaluating Solid Waste (SW-846). *Analysis conducted by subcontracting facility.*

CERTIFICATION

John Broussard
QUALITY ASSURANCE AND QUALITY CONTROL

Herbert A. Johnston
ANALYTICAL AND BIOANALYTICAL SERVICES

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ENVIRONMENTAL PROTECTION SYSTEMS, INC.

ANALYTICAL DIVISION
P.O. Box 20382 • 160 Upton Drive
Jackson, Mississippi 39209
(601) 922-8242

ANALYTICAL DIVISION
7215 Pine Forest Road
Pensacola, Florida 32506
(904) 944-0301

LABORATORY REPORT

88.1.0430 | 2/2

CLIENT: Cedar Chemical Corporation
LOCATION: Vicksburg, MS
DATE: 02/25/88
INVOICE NO: 017840/cb

COLLECTED BY: Client (7954)
DATE COLLECTED: 01/18/88
DATE RECEIVED: 01/19/88
DATE ANALYZED: 02/23/88

LABORATORY SAMPLE IDENTIFICATION

88017732 - Groundwater

ANALYSES	IDENTIFICATION NO. 7732				QUALITY CONTROL STANDARD OR SPIKE VALUE	% RECOVERY	RELATIVE % DEVIATION
All others in Volatile Organic Extractables Screen 112, mg/l	<0.5						
8080 Pest, ug/l	<0.2						
Aniline, ug/l	20.2						

COMMENT

Analyses conducted in accordance with 40 CFR, Part 261, November, 1986, Test Methods for Evaluating Solid Waste (SW-846). Analysis conducted by subcontracting facility.

CERTIFICATION

John Brummard
QUALITY ASSURANCE AND QUALITY CONTROL

Herbert A. Johnston
ANALYTICAL AND BIO-ANALYTICAL SERVICES

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ENVIRONMENTAL PROTECTION SYSTEMS, INC.

P. O. Box 20382
106 Upton Dr.
Jackson, Ms. 39209
601/922-6242

7215 Pine Forest Rd.
Pensacola, Fl. 32506
904/944-0301

EPA PRIORITY POLLUTANT ORGANICS

40 CFR, Part 136, 1984, Guideline Establishing Test Procedures for the Analysis of Pollutants

Base-Neutral Extractable Organics - Screen 110A

- Acenaphthene
- Acenaphthylene
- Anthracene
- Benzo(a)Anthracene
- Benzo(a)Pyrene
- Benzo(e)Fluoranthene
- Benzo(ghi)Perylene
- Benzo(k)Fluoranthane
- Bis(2-Chloroethoxy)Methane
- Bis(2-Chloroisopropyl)Ether
- Bis(2-Ethylhexyl)Phthalate
- 4-Bromophenyl Phenyl Ether
- Benzylbutyl Phthalate
- 2-Chloronaphthalene
- 4-Chlorophenyl Phenyl Ether
- Chrysene
- Dibenzo(a,h)Anthracene
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- 3,3'-Dichlorobenzidine
- Aldrin
- β-BHC
- δ-BHC
- Chlordane
- 4,4'-DDD
- 4,4'-DDE
- Bis(2-Chloroethyl)Ether
- 4,4'-DDT
- Dieldrin
- Endosulfan Sulfate
- Endrin Aldehyde
- Heptachlor
- Heptachlor Epoxide
- Diethyl Phthalate
- Dimethyl Phthalate
- Di-n-butyl Phthalate
- 2,4-Dinitrotoluene
- 2,6-Dinitrotoluene
- Di-n-octyl Phthalate
- Fluoranthene
- Fluorene
- Hexachlorobenzene
- Hexachlorobutadiene
- Hexachloroethane
- Ideno(1,2,3-cd)Pyrene
- Isophorone
- Naphthalene
- Nitrobenzene
- N-Nitrosodi-N-Propylamine
- Phenanthrene
- Pyrene
- 1,2,4-Trichlorobenzene
- PCB-1016
- PCB-1221
- PCB-1232
- PCB-1242
- PCB-1248
- PCB-1254
- PCB-1260
- Toxaphene

Additional Extractable Parameters - Screen 110B

- Benzidine
- β-BHC
- δ-BHC
- Endosulfan I
- Endosulfan II
- Endrin
- Hexachlorocyclopentadiene
- N-Nitrosodimethylamine
- N-Nitrosodiphenylamine

Acid Extractable Organics - Screen 111

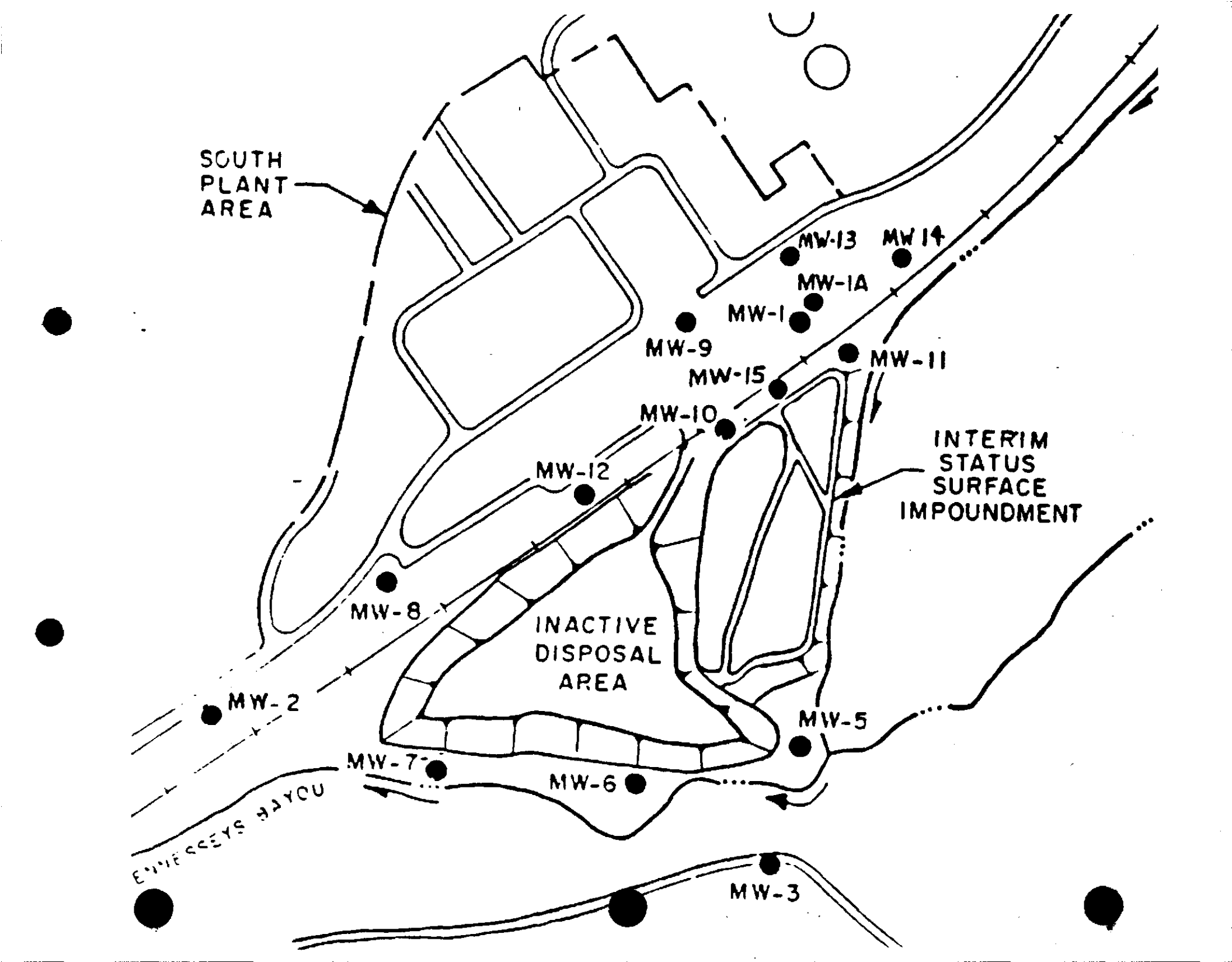
- 2-Chlorophenol
- 2,4-Dichlorophenol
- 2,4-Dimethylpenol
- 2-Methyl-4,6,-dinitrophenol
- 2,4-Dinitrophenol
- 2-Nitrophenol
- 4-Nitrophenol
- 4-Chloro-3-methylphenol
- Pentachlorophenol
- Phenol
- 2,4,6-Trichlorophenol

Purgeables - Screen 112

- Benzene
- Bromoform
- Carbon Tetrachloride
- Chlorobenzene
- Dibromochloromethane
- Chloroethane
- 2-Chloroethylvinyl Ether
- Chloroform
- Bromodichloromethane
- 1,1-Dichloroethane
- 1,2-Dichloroethane
- 1,1-Dichloroethene
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- cis-1,3-Dichloropropene
- 1,2-Dichloropropane
- trans-1,3-Dichloropropene
- Ethylbenzene
- Bromomethane
- Chloromethane
- Methylene Chloride
- 1,1,2,2-Tetrachloroethane
- Tetrachloroethene
- Toluene
- Trans-1,2-Dichloroethene
- 1,1,1-Trichloroethane
- 1,1,2-Trichloroethane
- Trichloroethene
- Vinyl Chloride

Polychlorinated Biphenyls - Screen 113

- Aroclor 1016
- Aroclor 1221
- Aroclor 1232
- Aroclor 1242
- Aroclor 1248
- Aroclor 1254
- Aroclor 1260


SOUTH
PLANT
AREA
MW-13
MW 14
MW-1A
MW-1
MW-9
MW-11
MW-15
MW-10
MW-12
INTERIM
STATUS
SURFACE
IMPOUNDMENT
MW-8
INACTIVE
DISPOSAL
AREA
MW-2
MW-5
MW-7
MW-6
MW-3

CEDAR CHEMICAL CORPORATION

24th Floor • 5100 Poplar Avenue • Memphis, TN 38137 • 901-685-5348

REPLY TO: P. O. BOX 3
VICKSBURG, MS 39180
(601) 636-1231

RECEIVED
DEC 28 1987
Dept. of Natural Resources
Bureau of Pollution Control

CERTIFIED MAIL
RETURN RECEIPT REQUESTED
P 113 213 008

December 23, 1987

Mr. Jack McCord
Environmental Engineer
Bureau of Pollution Control
2380 Highway 80 West
Jackson, Mississippi 39209

Subject: Commission Order No. 1253 87
Condition No. 9, Groundwater Monitoring

Dear Mr. McCord:

As we discussed by telephone December 15, 1987, enclosed are the results and groundwater elevations for the November 4, re-sampling of Cedar's wells for dinitro-butyl-phenol (all wells) and methylene chloride (well 13 only).

Our laboratory contractor reported interference in several samples and is unable to report exact results in those samples. Maximum estimated concentrations are reported in those cases. Sampling for the last quarter of 1987 has been completed and samples are in route to a different contract laboratory at the time of this letter.

All wells will be analyzed for the parameters previously reported (DNBP, toxaphene, methylene chloride and arsenic).

If there are questions concerning this matter, please contact me.

DIVISION OF SOLID WASTE
REVIEWED BY SM
DATE 12-28-87
COMMENTS Sent Copies to EPA Week of 12-28-87

Sincerely,

Steven T. Boswell

Steven T. Boswell
Director of Env. Affairs

STB: pc

Cedar Chemical Corporation, Vicksburg Chemical Operation

Groundwater Sampling, November 4, 1987

Well No.	MSL Water Level	Methylene Chloride mg/l	Dinitro-Butylphenol mg/l
1A	105.5′		.34
2	92.1′		< 0.13*
4	103.9′		.005
5	82.25′		.012
6	83.5′		.05
7	84.9′		.005
8	100.2′		< .010*
9	110.1′		.005
10	107.4′		.005
11	96.4′		< .055*
12	107.9′		.005
13	105.7′	7.3	< 2.5**
14	105.1′		.005
15	106.4′		.005

* Laboratory reports interferences with method for DNBP.

** Laboratory reports intereferences with method for DNBP & methylene chloride.

MISSISSIPPI DEPARTMENT OF NATURAL RESOURCES
Bureau of Pollution Control
P. O. Box 10385
Jackson, Mississippi 39209
(601) 961-5171

MEMORANDUM

TO: Vicksburg Chemical File

FROM: Jack McCord

SUBJECT: Quarterly Groundwater Sampling

DATE: November 13, 1987

Steve Boswell called to tell me that after Vicksburg Chemical re-sampled their wells because of previous elevated detection limits for dinoseb, that the lab had dropped and broken the sample for Well 1A. Since the previous analysis had shown detectable levels of dinoseb in Well 1A, I told Mr. Boswell that resampling 1A would not be necessary. Mr. Boswell also told me he had sent me the incorrect groundwater elevations, but that he was sending me the correct ones.

JM:cm
cc: Mr. James H. Scarbrough, EPA

CEDAR CHEMICAL CORPORATION

24th Floor • 5100 Poplar Avenue • Memphis, TN 38137 • 901-685-5348

REPLY TO: P. O. BOX 3
VICKSBURG, MS 39180
(601) 636-1231

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Dept. of Natural Resources
Bureau of Pollution Control

CERTIFIED MAIL
RETURN RECEIPT REQUESTED
P 113 212 999

November 16, 1987

Mr. Jack McCord
Environmental Engineer
Bureau of Pollution Control
2380 Highway 80 West
Jackson, Mississippi 39209

Subject: Commission Order No. 1253 87
Condition No. 9, Groundwater Monitoring

Dear Mr. McCord:

As we discussed by telephone November 13, 1987, enclosed are the groundwater elevations for the September 29 sampling of Cedar's wells. The levels previously remitted were from the November 4, sampling and were mistakenly sent with the analyses for the September 29, sampling.

Also, as we discussed, our laboratory contractor lost the sample of MW-1A from the November sampling due to breakage of the sample bottle. Results for that well were reported for the September sampling at a level of 0.34 mg/l.

If there are questions concerning this matter, please contact me.

Sincerely,

Steven T. Boswell

Steven T. Boswell
Director of Env. Affairs

STB: pc

DIVISION OF SOLID WASTE
REVIEWED BY
DATE 11-23-87
COMMENTS Sent to EPA 11-23-87

Cedar Chemical Corporation, Vicksburg Chemical Operation

Groundwater Sampling, September 29, 1987

Well No.	Water Level	Methylene Chloride ug/l	Toxaphene ug/l	Arsenic mg/l	Dinitro-Butylphenol mg/l
1A	105.7′	<2.0	<0.24	0.054	.34
2	92.6′	<2.0	<0.24	<0.003	<0.1
4	105.0′	<2.0	<0.24	<0.003	<0.1
5	82.7′	<2.0	<0.24	<0.003	<0.1
6	83.9′	<2.0	<0.24	0.003	<0.1
7	85.0′	<2.0	<0.24	0.010	<0.1
8	100.7′	<2.0	<0.24	0.017	<0.1
9	110.3′	<2.0	<0.24	0.004	<0.1
10	107.7′	<2.0	<0.24	<0.003	<0.1
11	96.7′	<2.0	<0.24	0.010	<0.1
12	108.2′	<2.0	<0.24	0.006	<0.1
13	105.8′	400	<0.24	0.018	<0.1
14	105.4′	<2.0	<0.24	<0.003	<0.1
15	106.6′	<2.0	<0.24	<0.003	<0.1

CEDAR CHEMICAL CORPORATION

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REPLY TO: P. O. BOX 3
VICKSBURG, MS 39180
(601) 636-1231

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NOV - 9 1987
Dept. of Natural Resources
Bureau of Pollution Control

CERTIFIED MAIL
RETURN RECEIPT REQUESTED
P 113 212 998

November 6, 1987

Mr. Jack McCord
Environmental Engineer
Bureau of Pollution Control
2380 Highway 80 West
Jackson, Mississippi 39209

Subject: Commission Order No. 1253 87
Condition No. 9, Groundwater Monitoring

Dear Mr. McCord:

As we discussed by telephone November 5, 1987, please find enclosed the results of the sampling of Cedar's groundwater monitoring wells as described in my letter of September 24.

The wells have been re-sampled for dinitro-butylphenol as those analyses were not done by a method having great enough sensitivity. We will repeat the sampling of well MW-13 for methylene chloride. The resampling was conducted on November 4. As no other sample contained methylene chloride, we suspect the sample was contaminated.

Also, please find enclosed the plan locations of wells 13, 14 and 15. If there are questions concerning this matter, please contact me.

Sincerely,

Steven T. Boswell

STB: pc

Steven T. Boswell
Director of Env. Affairs

DIVISION OF SOLID WASTE
REVIEWED BY
DATE 11-9-87
COMMENTS detection limits too high for DNBP

Cedar Chemical Corporation, Vicksburg Chemical Operation

Groundwater Sampling, September 29, 1987

Well No.	MSL Water Level	Methylene Chloride ug/l	Toxaphene ug/l	Arsenic mg/l	Dinitro-Butylphenol mg/l
1A	105.5'	<2.0	<0.24	0.054	.34
2	92.1'	<2.0	<0.24	<0.003	<0.1
4	103.9'	<2.0	<0.24	<0.003	<0.1
5	82.25'	<2.0	<0.24	<0.003	<0.1
6	83.5'	<2.0	<0.24	0.003	<0.1
7	84.9'	<2.0	<0.24	0.010	<0.1
8	100.2'	<2.0	<0.24	0.017	<0.1
9	110.1'	<2.0	<0.24	0.004	<0.1
10	107.4'	<2.0	<0.24	<0.003	<0.1
11	96.4'	<2.0	<0.24	0.010	<0.1
12	107.9'	<2.0	<0.24	0.006	<0.1
13	105.7'	400	<0.24	0.018	<0.1
14	105.1'	<2.0	<0.24	<0.003	<0.1
15	106.4'	<2.0	<0.24	<0.003	<0.1

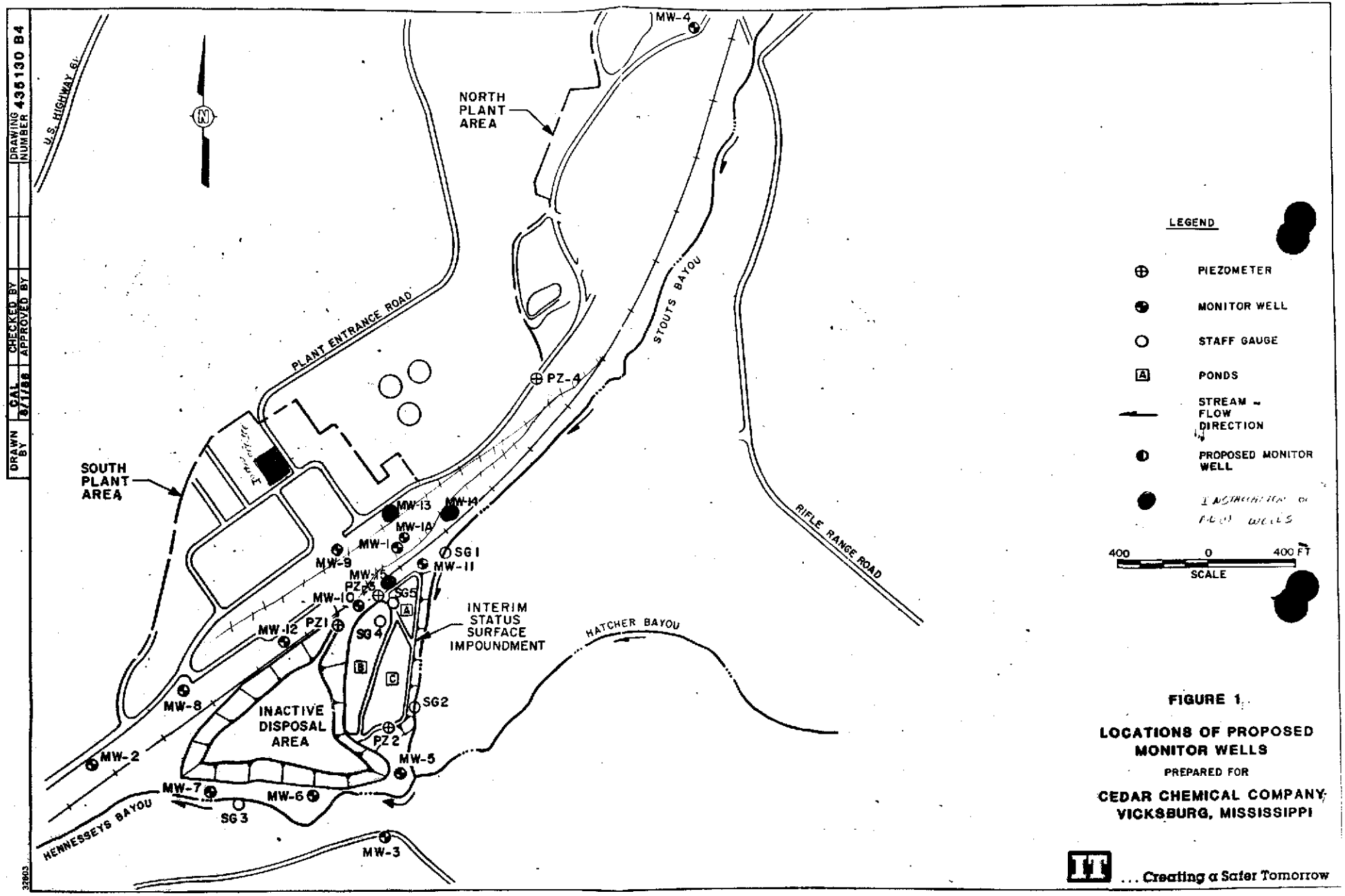

FIGURE 1

LOCATIONS OF PROPOSED MONITOR WELLS

PREPARED FOR

CEDAR CHEMICAL COMPANY, VICKSBURG, MISSISSIPPI

IT ... Creating a Safer Tomorrow