SEPARATOR

54-00068

HAZ WASTE

COMPLIANCE

04/05/1992

NA

9545622

Cedar Chemical
4/1992
Lab Analysis Reports

54-00068
AFIN # PERMIT NO.
MEDIA: HAZARDOUS, SUPERFUND, BROWNFIELDS
ENFORCEMENT, COMPLIANCE, PERMITTING
DATE: 1-12-07

Received By:
JAN 12 2007
ADEQ Records
Management Section

54-00068
04-05-1992

Chemical Waste Management, Inc.
Southern Region Laboratory
P.O. Box 2563
Highway 73, 3.5 Miles West of Taylors Bayou (UPS-77640)
Port Arthur, Texas 77643-2563
409/736-2555
FAX: 409/736-3414

Lab ID: CCC−0013
Customer: ENRAC − South
Customer ID: P2 − W
Description: Soil
Report Date: 04/05/92

Semivolatiles by SW846 Method 8270

Date Analyzed: 04/03/92
Analyst: HAB
Reviewer: JEC JEC 4/6/92

ANALYTE	UNITS	PQL	RESULTS	FLAGS
1,2,4,5−Tetrachlorobenzene	mg/kg (ppm)	0.45	< PQL	U
1,2,4−Trichlorobenzene	mg/kg (ppm)	0.33	< PQL	U
1,2−Dichlorobenzene	mg/kg (ppm)	0.23	< PQL	U
1,3−Dichlorobenzene	mg/kg (ppm)	0.23	< PQL	U
1,4−Dichlorobenzene	mg/kg (ppm)	0.18	< PQL	U
2,4,5−Trichlorophenol	mg/kg (ppm)	0.37	< PQL	U
2,4,6−Trichlorophenol	mg/kg (ppm)	0.60	< PQL	U
2,4−Dichlorophenol	mg/kg (ppm)	0.39	< PQL	U
2,4−Dimethylphenol	mg/kg (ppm)	0.64	< PQL	U
2,4−Dinitrophenol	mg/kg (ppm)	1.2	< PQL	U
2,4−Dinitrotoluene	mg/kg (ppm)	0.27	< PQL	U
2,6−Dinitrotoluene	mg/kg (ppm)	0.25	< PQL	U
2−Chloronaphthalene	mg/kg (ppm)	0.20	< PQL	U
2−Chlorophenol	mg/kg (ppm)	0.36	< PQL	U
2−Methylnaphthalene	mg/kg (ppm)	0.35	14	
2−Methylphenol	mg/kg (ppm)	1.6	< PQL	U
2−Nitroaniline	mg/kg (ppm)	0.22	< PQL	U
2−Nitrophenol	mg/kg (ppm)	0.39	< PQL	U
2−sec−Butyl−4,6−dinitrophenol	mg/kg (ppm)	0.82	< PQL	U
3,3'−Dichlorobenzidine	mg/kg (ppm)	0.75	< PQL	U
3+4−Methylphenol	mg/kg (ppm)	0.60	< PQL	U
3−Nitroaniline	mg/kg (ppm)	0.28	< PQL	U
4,6−Dinitro−2−methylphenol	mg/kg (ppm)	0.39	< PQL	U
4−Bromophenyl−phenylether	mg/kg (ppm)	0.23	< PQL	U
4−Chloroaniline	mg/kg (ppm)	0.39	< PQL	U
4−Chlorophenyl−phenylether	mg/kg (ppm)	0.20	< PQL	U
4−Chloro−3−methylphenol	mg/kg (ppm)	0.38	< PQL	U
4−Nitroaniline	mg/kg (ppm)	0.18	< PQL	U
4−Nitrophenol	mg/kg (ppm)	3.3	< PQL	U
Acenaphthene	mg/kg (ppm)	0.32	< PQL	U
Acenaphthylene	mg/kg (ppm)	0.23	< PQL	U
Aniline	mg/kg (ppm)	0.40	< PQL	U
Anthracene	mg/kg (ppm)	0.29	< PQL	U
Azobenzene	mg/kg (ppm)	0.23	< PQL	U
Benzidine	mg/kg (ppm)	6.4	< PQL	U
Benzoic acid	mg/kg (ppm)	6.3	< PQL	U

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Date Analyzed: 04/03/92
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ANALYTE	UNITS	PQL	RESULTS	FLAGS
Benzo(a)anthracene	mg/kg (ppm)	0.35	< PQL	U
Benzo(a)pyrene	mg/kg (ppm)	0.22	< PQL	U
Benzo(b)fluoranthene	mg/kg (ppm)	0.29	< PQL	U
Benzo(g,h,i)perylene	mg/kg (ppm)	0.27	< PQL	U
Benzo(k)fluoranthene	mg/kg (ppm)	0.37	< PQL	U
Benzyl alcohol	mg/kg (ppm)	0.31	< PQL	U
bis(2-Chloroethoxy)methane	mg/kg (ppm)	0.30	< PQL	U
bis(2-Chloroisopropyl)ether	mg/kg (ppm)	1.2	< PQL	U
bis(2-Cloroethyl)ether	mg/kg (ppm)	0.22	< PQL	U
bis(2-Ethylhexyl)phthalate	mg/kg (ppm)	1.9	4.0	B
Butylbenzylphthalate	mg/kg (ppm)	0.24	< PQL	U
Chrysene	mg/kg (ppm)	0.29	< PQL	U
Dibenzofuran	mg/kg (ppm)	0.22	< PQL	U
Dibenz(a,h)anthracene	mg/kg (ppm)	0.22	< PQL	U
Diethylphthalate	mg/kg (ppm)	0.062	< PQL	U
Dimethylphthalate	mg/kg (ppm)	0.028	< PQL	U
Di-n-butylphthalate	mg/kg (ppm)	0.22	1.2	B
Di-n-octylphthalate	mg/kg (ppm)	0.24	< PQL	U
Fluoranthene	mg/kg (ppm)	0.27	< PQL	U
Fluorene	mg/kg (ppm)	1.2	< PQL	U
Hexachlorobenzene	mg/kg (ppm)	0.25	< PQL	U
Hexachlorobutadiene	mg/kg (ppm)	0.11	< PQL	U
Hexachlorocyclopentadiene	mg/kg (ppm)	5.2	< PQL	U
Hexachloroethane	mg/kg (ppm)	0.16	< PQL	U
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.24	< PQL	U
Naphthalene	mg/kg (ppm)	0.23	7.8	
Nitrobenzene	mg/kg (ppm)	0.29	< PQL	U
N-Nitrosodimethylamine	mg/kg (ppm)	0.81	< PQL	U
N-Nitrosodiphenylamine	mg/kg (ppm)	0.51	< PQL	U
N-Nitroso-di-n-propylamine	mg/kg (ppm)	0.76	< PQL	U
Pentachlorophenol	mg/kg (ppm)	4.1	< PQL	U
Phenanthrene	mg/kg (ppm)	0.21	< PQL	U
Phenol	mg/kg (ppm)	0.36	< PQL	U
Pyrene	mg/kg (ppm)	0.33	< PQL	U
Pyridine	mg/kg (ppm)	0.30	< PQL	U

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Lab ID: CCC–0013
Customer: ENRAC – South
Customer ID: P2 – W
Description: Soil
Report Date: 04/05/92

Semivolatiles by SW846 Method 8270

Date Analyzed: 04/03/92
Analyst: HAB
Reviewer: JEC JC 4/6/92

ANALYTE	UNITS	PQL	RESULTS	FLAGS

Flag Legend

B – Compound is found in the blank, as well as the sample.
U – Compound analyzed for, but not detected above the PQL.

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Lab ID: CCC-0014
Customer: ENRAC - South
Customer ID: P2 - C
Description: Soil
Report Date: 04/05/92

Semivolatiles by SW846 Method 8270

Date Analyzed: 04/03/92
Analyst: HAB
Reviewer: JEC JEC 4/6/92

ANALYTE	UNITS	PQL	RESULTS	FLAGS
1,2,4,5-Tetrachlorobenzene	mg/kg (ppm)	0.45	< PQL	U
1,2,4-Trichlorobenzene	mg/kg (ppm)	0.33	< PQL	U
1,2-Dichlorobenzene	mg/kg (ppm)	0.23	< PQL	U
1,3-Dichlorobenzene	mg/kg (ppm)	0.23	< PQL	U
1,4-Dichlorobenzene	mg/kg (ppm)	0.18	< PQL	U
2,4,5-Trichlorophenol	mg/kg (ppm)	0.37	< PQL	U
2,4,6-Trichlorophenol	mg/kg (ppm)	0.60	< PQL	U
2,4-Dichlorophenol	mg/kg (ppm)	0.39	< PQL	U
2,4-Dimethylphenol	mg/kg (ppm)	0.64	< PQL	U
2,4-Dinitrophenol	mg/kg (ppm)	1.2	< PQL	U
2,4-Dinitrotoluene	mg/kg (ppm)	0.27	< PQL	U
2,6-Dinitrotoluene	mg/kg (ppm)	0.25	< PQL	U
2-Chloronaphthalene	mg/kg (ppm)	0.20	< PQL	U
2-Chlorophenol	mg/kg (ppm)	0.36	< PQL	U
2-Methylnaphthalene	mg/kg (ppm)	0.35	7.1	
2-Methylphenol	mg/kg (ppm)	1.6	< PQL	U
2-Nitroaniline	mg/kg (ppm)	0.22	< PQL	U
2-Nitrophenol	mg/kg (ppm)	0.39	< PQL	U
2-sec-Butyl-4,6-dinitrophenol	mg/kg (ppm)	0.82	< PQL	U
3,3'-Dichlorobenzidine	mg/kg (ppm)	0.75	< PQL	U
3+4-Methylphenol	mg/kg (ppm)	0.60	< PQL	U
3-Nitroaniline	mg/kg (ppm)	0.28	< PQL	U
4,6-Dinitro-2-methylphenol	mg/kg (ppm)	0.39	< PQL	U
4-Bromophenyl-phenylether	mg/kg (ppm)	0.23	< PQL	U
4-Chloroaniline	mg/kg (ppm)	0.39	< PQL	U
4-Chlorophenyl-phenylether	mg/kg (ppm)	0.20	< PQL	U
4-Chloro-3-methylphenol	mg/kg (ppm)	0.38	< PQL	U
4-Nitroaniline	mg/kg (ppm)	0.18	< PQL	U
4-Nitrophenol	mg/kg (ppm)	3.3	< PQL	U
Acenaphthene	mg/kg (ppm)	0.32	< PQL	U
Acenaphthylene	mg/kg (ppm)	0.23	< PQL	U
Aniline	mg/kg (ppm)	0.40	< PQL	U
Anthracene	mg/kg (ppm)	0.29	< PQL	U
Azobenzene	mg/kg (ppm)	0.23	< PQL	U
Benzidine	mg/kg (ppm)	6.4	< PQL	U
Benzoic acid	mg/kg (ppm)	6.3	< PQL	U

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ANALYTE	UNITS	PQL	RESULTS	FLAGS
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Benzo(a)pyrene	mg/kg (ppm)	0.22	< PQL	U
Benzo(b)fluoranthene	mg/kg (ppm)	0.29	< PQL	U
Benzo(g,h,i)perylene	mg/kg (ppm)	0.27	< PQL	U
Benzo(k)fluoranthene	mg/kg (ppm)	0.37	< PQL	U
Benzyl alcohol	mg/kg (ppm)	0.31	< PQL	U
bis(2-Chloroethoxy)methane	mg/kg (ppm)	0.30	< PQL	U
bis(2-Chloroisopropyl)ether	mg/kg (ppm)	1.2	< PQL	U
bis(2-Cloroethyl)ether	mg/kg (ppm)	0.22	< PQL	U
bis(2-Ethylhexyl)phthalate	mg/kg (ppm)	1.9	4.7	B
Butylbenzylphthalate	mg/kg (ppm)	0.24	< PQL	U
Chrysene	mg/kg (ppm)	0.29	< PQL	U
Dibenzofuran	mg/kg (ppm)	0.22	< PQL	U
Dibenz(a,h)anthracene	mg/kg (ppm)	0.22	< PQL	U
Diethylphthalate	mg/kg (ppm)	0.062	< PQL	U
Dimethylphthalate	mg/kg (ppm)	0.028	< PQL	U
Di-n-butylphthalate	mg/kg (ppm)	0.22	1.2	B
Di-n-octylphthalate	mg/kg (ppm)	0.24	< PQL	U
Fluoranthene	mg/kg (ppm)	0.27	< PQL	U
Fluorene	mg/kg (ppm)	1.2	< PQL	U
Hexachlorobenzene	mg/kg (ppm)	0.25	< PQL	U
Hexachlorobutadiene	mg/kg (ppm)	0.11	< PQL	U
Hexachlorocyclopentadiene	mg/kg (ppm)	5.2	< PQL	U
Hexachloroethane	mg/kg (ppm)	0.16	< PQL	U
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Naphthalene	mg/kg (ppm)	0.23	3.8	
Nitrobenzene	mg/kg (ppm)	0.29	< PQL	U
N-Nitrosodimethylamine	mg/kg (ppm)	0.81	< PQL	U
N-Nitrosodiphenylamine	mg/kg (ppm)	0.51	< PQL	U
N-Nitroso-di-n-propylamine	mg/kg (ppm)	0.76	< PQL	U
Pentachlorophenol	mg/kg (ppm)	4.1	< PQL	U
Phenanthrene	mg/kg (ppm)	0.21	< PQL	U
Phenol	mg/kg (ppm)	0.36	< PQL	U
Pyrene	mg/kg (ppm)	0.33	< PQL	U
Pyridine	mg/kg (ppm)	0.30	< PQL	U

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Customer ID: P2 – C
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Report Date: 04/05/92

Semivolatiles by SW846 Method 8270

Date Analyzed: 04/03/92
Analyst: HAB
Reviewer: JEC JEC 4/6/92

ANALYTE	UNITS	PQL	RESULTS	FLAGS

Flag Legend

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Date Analyzed: 04/03/92
Analyst: HAB
Reviewer: JEC EC 4/6/92

ANALYTE	UNITS	PQL	RESULTS	FLAGS
1,2,4,5−Tetrachlorobenzene	mg/kg (ppm)	0.45	< PQL	U
1,2,4−Trichlorobenzene	mg/kg (ppm)	0.33	< PQL	U
1,2−Dichlorobenzene	mg/kg (ppm)	0.23	< PQL	U
1,3−Dichlorobenzene	mg/kg (ppm)	0.23	< PQL	U
1,4−Dichlorobenzene	mg/kg (ppm)	0.18	< PQL	U
2,4,5−Trichlorophenol	mg/kg (ppm)	0.37	< PQL	U
2,4,6−Trichlorophenol	mg/kg (ppm)	0.60	< PQL	U
2,4−Dichlorophenol	mg/kg (ppm)	0.39	< PQL	U
2,4−Dimethylphenol	mg/kg (ppm)	0.64	< PQL	U
2,4−Dinitrophenol	mg/kg (ppm)	1.2	< PQL	U
2,4−Dinitrotoluene	mg/kg (ppm)	0.27	< PQL	U
2,6−Dinitrotoluene	mg/kg (ppm)	0.25	< PQL	U
2−Chloronaphthalene	mg/kg (ppm)	0.20	< PQL	U
2−Chlorophenol	mg/kg (ppm)	0.36	< PQL	U
2−Methylnaphthalene	mg/kg (ppm)	0.35	1.3	
2−Methylphenol	mg/kg (ppm)	1.6	< PQL	U
2−Nitroaniline	mg/kg (ppm)	0.22	< PQL	U
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Anthracene	mg/kg (ppm)	0.29	< PQL	U
Azobenzene	mg/kg (ppm)	0.23	< PQL	U
Benzidine	mg/kg (ppm)	6.4	< PQL	U
Benzoic acid	mg/kg (ppm)	6.3	< PQL	U

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Date Analyzed: 04/03/92
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Benzo(k)fluoranthene	mg/kg (ppm)	0.37	< PQL	U
Benzyl alcohol	mg/kg (ppm)	0.31	< PQL	U
bis(2-Chloroethoxy)methane	mg/kg (ppm)	0.30	< PQL	U
bis(2-Chloroisopropyl)ether	mg/kg (ppm)	1.2	< PQL	U
bis(2-Cloroethyl)ether	mg/kg (ppm)	0.22	< PQL	U
bis(2-Ethylhexyl)phthalate	mg/kg (ppm)	1.9	4.2	B
Butylbenzylphthalate	mg/kg (ppm)	0.24	< PQL	U
Chrysene	mg/kg (ppm)	0.29	< PQL	U
Dibenzofuran	mg/kg (ppm)	0.22	< PQL	U
Dibenz(a,h)anthracene	mg/kg (ppm)	0.22	< PQL	U
Diethylphthalate	mg/kg (ppm)	0.062	0.21	
Dimethylphthalate	mg/kg (ppm)	0.028	< PQL	U
Di-n-butylphthalate	mg/kg (ppm)	0.22	1.7	B
Di-n-octylphthalate	mg/kg (ppm)	0.24	< PQL	U
Fluoranthene	mg/kg (ppm)	0.27	< PQL	U
Fluorene	mg/kg (ppm)	1.2	< PQL	U
Hexachlorobenzene	mg/kg (ppm)	0.25	< PQL	U
Hexachlorobutadiene	mg/kg (ppm)	0.11	< PQL	U
Hexachlorocyclopentadiene	mg/kg (ppm)	5.2	< PQL	U
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N-Nitrosodiphenylamine	mg/kg (ppm)	0.51	< PQL	U
N-Nitroso-di-n-propylamine	mg/kg (ppm)	0.76	< PQL	U
Pentachlorophenol	mg/kg (ppm)	4.1	< PQL	U
Phenanthrene	mg/kg (ppm)	0.21	< PQL	U
Phenol	mg/kg (ppm)	0.36	< PQL	U
Pyrene	mg/kg (ppm)	0.33	< PQL	U
Pyridine	mg/kg (ppm)	0.30	< PQL	U

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Customer: ENRAC - South
Customer ID: P2 - E
Description: Soil
Report Date: 04/05/92

Semivolatiles by SW846 Method 8270

Date Analyzed: 04/03/92
Analyst: HAB
Reviewer: JEC JC 4/6/92

ANALYTE	UNITS	PQL	RESULTS	FLAGS

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VOA Sample Narrative

Enclosed are the results of the analysis of one sample, P2-Comp submitted on April 3, 1992.

Representative portions of the sample was extracted in accordance with EPA SW846 Method 5030, and then analyzed in accordance with EPA SW846 Method 8240 using a Hewlett-Packard 5890 series II Gas Chromatograph/Mass Spectrometer (GC/MS) for a calibrated list of target compounds. An instrument performance check (IPC), quality control check (QC), and method blank were analyzed with this sample in accordance with the quality assurance program (QAP).

The results of the analysis of the sample, Port Arthur number CCC-0016 are contained within the data package.

I certify that this sample data package is complete and in compliance with the contracted agreement. Release of this data has been authorized by the laboratory manager and is verified by the following signature.

John C. Terry
Special Projects Manager
Southern Region

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FAX: 409/736-3414

Lab ID: CCC-0016
Customer: Cedar Chemical
Customer ID: P2-Comp
Description: Soil
Report Date: 04/06/92

VOLATILES By SW846 Method 8240

Date Analyzed: 04/06/92
Analyst: ML
Reviewer: EC 4/6/92

ANALYTE	UNITS	MDL	RESULTS	FLAGS
1,1,1-Trichloroethane	µg/kg (ppb)	5.6	< MDL	U
1,1,1,2-Tetrachloroethane	µg/kg (ppb)	6.9	< MDL	U
1,1,2,2-Tetrachloroethane	µg/kg (ppb)	15	< MDL	U
1,1,2-Trichloroethane	µg/kg (ppb)	3.1	< MDL	U
1,1,2-Trichlorotrifluoroethane	µg/kg (ppb)	4.5	< MDL	U
1,1-Dichloroethane	µg/kg (ppb)	3.2	< MDL	U
1,1-Dichloroethene	µg/kg (ppb)	3.6	< MDL	U
1,2-Dibromo-3-chloropropane	µg/kg (ppb)	11	< MDL	U
1,2-Dibromomethane	µg/kg (ppb)	5.0	< MDL	U
1,2-Dichloroethane	µg/kg (ppb)	2.1	< MDL	U
1,2-Dichloropropane	µg/kg (ppb)	1.3	< MDL	U
1,2,3-Trichloropropane	µg/kg (ppb)	9.5	< MDL	U
2-Butanone	µg/kg (ppb)	16	340	
2-Chloroethyl vinyl ether	µg/kg (ppb)	2.0	< MDL	U
2-Hexanone	µg/kg (ppb)	8.8	240	
4-Methyl-2-pentanone	µg/kg (ppb)	16	< MDL	U
Acetone	µg/kg (ppb)	6.0	25000	
Acetonitrile	µg/kg (ppb)	9.4	< MDL	U
Acrolein	µg/kg (ppb)	8.0	< MDL	U
Acrylonitrile	µg/kg (ppb)	5.3	< MDL	U
Allyl Chloride	µg/kg (ppb)	6.4	< MDL	U
Benzene	µg/kg (ppb)	1.2	35	
Bromodichloromethane	µg/kg (ppb)	3.1	< MDL	U
Bromoform	µg/kg (ppb)	7.8	< MDL	U
Bromomethane	µg/kg (ppb)	2.4	< MDL	U
Carbon disulfide	µg/kg (ppb)	3.2	< MDL	U
Carbon tetrachloride	µg/kg (ppb)	1.6	< MDL	U
Chlorobenzene	µg/kg (ppb)	2.1	< MDL	U
Chloroethane	µg/kg (ppb)	2.2	< MDL	U
Chloroform	µg/kg (ppb)	2.1	< MDL	U
Chloromethane	µg/kg (ppb)	1.9	< MDL	U
Chloroprene	µg/kg (ppb)	3.9	< MDL	U
cis-1,3-dichloropropene	µg/kg (ppb)	2.7	< MDL	U
Dibromochloromethane	µg/kg (ppb)	3.4	< MDL	U
Dibromomethane	µg/kg (ppb)	3.8	< MDL	U
Ethanol	µg/kg (ppb)	3.8	< MDL	U

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Chemical Waste Management, Inc.
Southern Region Laboratory
P.O. Box 2563
Highway 73, 3.5 Miles West of Taylors Bayou (UPS-77640)
Port Arthur, Texas 77643-2563
409/736-2555
FAX: 409/736-3414

Lab ID: CCC–0016
Customer: Cedar Chemical
Customer ID: P2–Comp
Description: Soil
Report Date: 04/06/92

VOLATILES By SW846 Method 8240

Date Analyzed: 04/06/92
Analyst: ML
Reviewer: EC 4/6/92

ANALYTE	UNITS	MDL	RESULTS	FLAGS
Ethyl acetate	µg/kg (ppb)	8.3	< MDL	U
Ethyl ether	µg/kg (ppb)	7.1	< MDL	U
Ethyl methacrylate	µg/kg (ppb)	4.1	< MDL	U
Ethylbenzene	µg/kg (ppb)	5.9	< MDL	U
Iodomethane	µg/kg (ppb)	6.1	< MDL	U
Isobutyl alcohol	µg/kg (ppb)	20	< MDL	U
Methylacrylonitrile	µg/kg (ppb)	11	< MDL	U
Methyl methacrylate	µg/kg (ppb)	11	< MDL	U
Methylene chloride	µg/kg (ppb)	3.9	< MDL	U
Proprionitrile	µg/kg (ppb)	21	< MDL	U
Styrene	µg/kg (ppb)	3.2	< MDL	U
Tetrachloroethene	µg/kg (ppb)	2.6	< MDL	U
Toluene	µg/kg (ppb)	1.1	120	
trans–1,2–dichloroethene	µg/kg (ppb)	2.5	< MDL	U
trans–1,3–dichloropropene	µg/kg (ppb)	1.8	< MDL	U
Trichloroethane	µg/kg (ppb)	1.2	< MDL	U
Trichlorofluoromethane	µg/kg (ppb)	5.5	< MDL	U
Vinyl Chloride	µg/kg (ppb)	1.9	< MDL	U
Xylenes	µg/kg (ppb)	11	530	

Flag Legend

B – Compound is found in the blank, as well as the sample.
U – Compound analyzed for, but not detected above the MDL.

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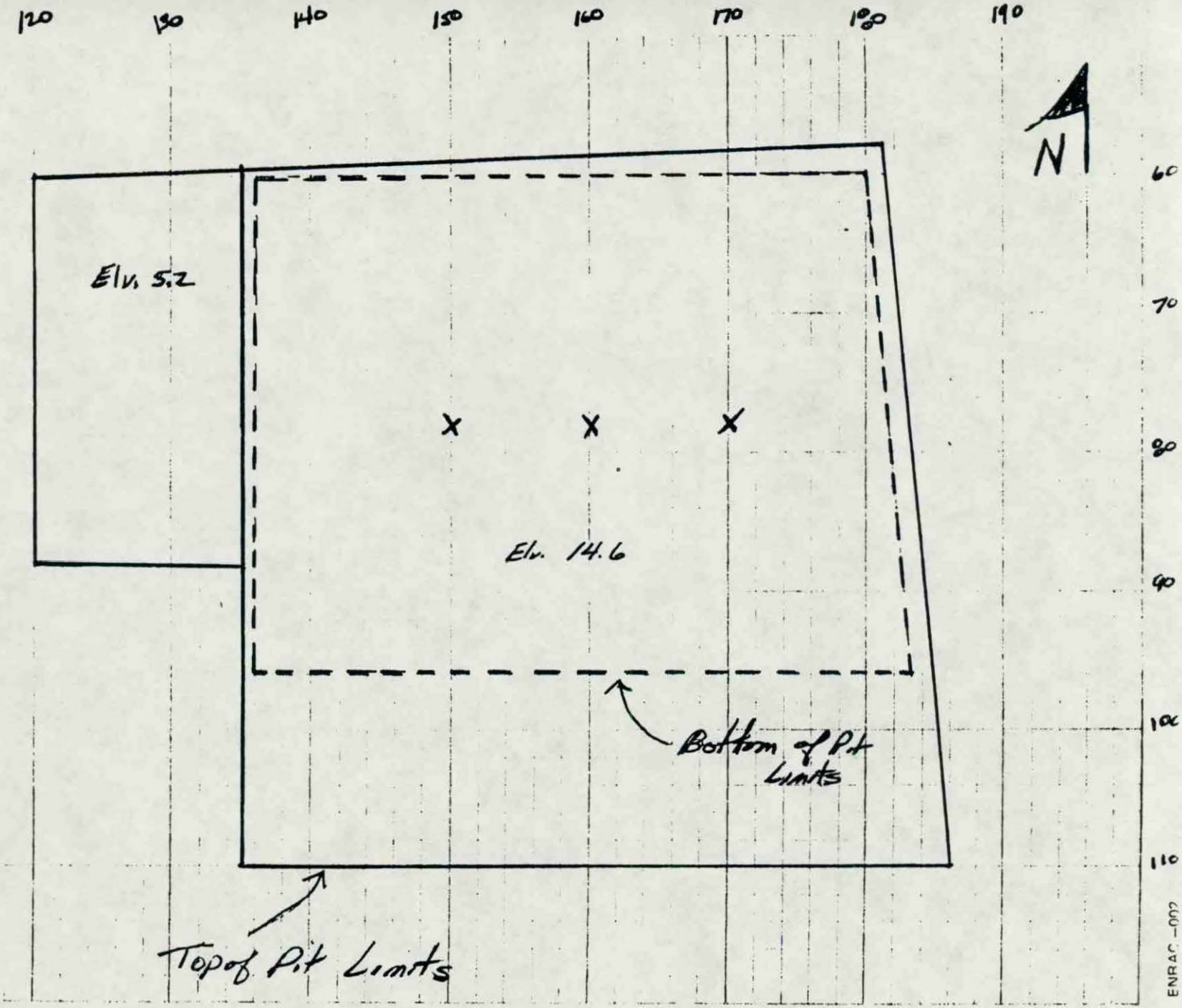
CWM-ENRAC

SUBJECT Cedar Chemical Pit #2	
Job No. 73379	Made by Kevin Sunday
Ref. PtB2	Checked
	Reviewed
	Date 3/31/92
	Sheet 1 of 1

Bench - Fire Hydrant - 2.6

X - Denotes Sample Point



ENRAC-002

CEDAR CHEMICAL
TRANSPORATION LOG

DATE	MANIFEST #	DOC #	TRUCK NUMBER	CERT. ON-SITE WEIGHTS	DAILY ON-SITE TONNAGE	TO DATE CERT. TOTAL
3-16-92	3126101	1	40	24.32	24.32	24.32
3-16-92	3126102	2	44	25.76	50.08	50.08
3-16-92	3126103	3	41	24.31	74.39	74.39
3-16-92	3126104	4	38	25.09	99.48	99.48
3-16-92	3126105	5	42	26.61	126.09	126.09
				TOTAL	126.09	126.09
3-17-92	3126106	6	45	23.47	23.47	149.56
3-17-92	3126107	7	9	24.85	48.32	174.41
3-17-92	3126108	8	39	24.52	72.84	198.93
3-17-92	3126109	9	701	23.45	96.29	222.38
3-17-92	3126110	10	43	24.82	121.11	247.20
3-17-92	3126111	11	384	23.60	144.71	270.80
3-17-92	3126112	12	897	27.12	171.83	297.92
3-17-92	3126113	13	702	26.17	198.00	324.09
3-17-92	3126114	14	556	25.16	223.16	349.25
3-17-92	3126115	15	431	25.30	248.46	374.55
3-17-92	3126116	16	500	25.67	274.13	400.22
				TOTAL	274.13	400.22
3-18-92	3126117	17	38	27.10	27.10	427.32
3-18-92	3126118	18	41	26.14	53.24	453.46
3-18-92	3126119	19	42	27.51	80.75	480.97
3-18-92	3126120	20	933	23.57	104.32	504.54
				TOTAL	104.32	504.54
3-19-92	3126121	21	43	25.81	25.81	530.35
3-19-92	3126122	22	211	25.05	50.86	555.40
3-19-92	3126123	23	44	24.74	75.60	580.14
3-19-92	3126124	24	700	23.21	98.81	603.35
				TOTAL	98.81	603.35
3-20-92	3126125	25	39	24.45	24.45	627.80
3-20-92	3126126	26	938	24.15	48.60	651.95
3-20-92	3126127	27	9	25.77	74.37	677.72
3-20-92	3126128	28	40	25.12	99.49	702.84
3-20-92	3126129	29	45	27.46	126.95	730.30
3-20-92	3126130	30	48	25.91	152.86	756.21
3-20-92	3126131	31	942	22.26	175.12	778.47
3-20-92	3126132	32	941	22.52	197.64	800.99
3-20-92	3126133	33	41	23.69	221.33	824.68
				TOTAL	221.33	824.68
3-21-92	3126134	34	424	29.62	29.62	854.30
3-21-92	3126135	35	943	24.63	54.25	878.93
3-21-92	3126136	36	946	25.41	79.66	904.34
3-21-92	3126137	37	43	26.61	106.27	930.95
3-21-92	3126138	38	49	27.60	133.87	958.55
3-21-92	3126139	39	38	26.90	160.77	985.45
				TOTAL	160.77	985.45
3-22-92	3126140	40	39	24.54	24.54	1009.99
3-22-92	3126141	41	9	26.58	51.12	1036.57
3-22-92	3126142	42	48	25.17	76.29	1061.74
3-22-92	3126143	43	40	25.79	102.08	1087.53
3-22-92	3126144	44	42	25.17	127.25	1112.70

CEDAR CHEMICAL
TRANSPORATION LOG

DATE	MANIFEST #	DOC #	TRUCK NUMBER	CERT. ON-SITE WEIGHTS	DAILY ON-SITE TONNAGE	TO DATE CERT. TOTAL	
3-22-92	3126145	45	44	26.68	153.93	1139.38	
3-22-92	3126146	46	45	26.34	180.27	1165.72	
				TOTAL	180.27	1165.72	
3-23-92	3126147	47	41	25.11	25.11	1190.83	
3-23-92	3126148	48	49	26.15	51.26	1216.98	
3-23-92	3126149	49	38	25.02	76.28	1242.00	
				TOTAL	76.28	1242.00	
3-24-92	3126150	50	935	25.01	25.01	1267.01	↑
3-24-92	3126151	51	430	25.32	50.33	1292.33	
3-24-92	3126152	52	48	25.58	75.91	1317.91	
3-24-92	3126153	53	42	26.20	102.11	1344.11	Pit No 1
3-24-92	3126154	54	40	25.66	127.77	1369.77	Pit No 2
3-24-92	3126155	55	45	23.06	150.83	1392.83	
3-24-92	3126156	56	49	26.51	177.34	1419.34	↓
3-24-92	3126157	57	44	25.23	202.57	1444.57	
3-24-92	3126158	58	41	25.78	228.35	1470.35	
3-24-92	3126159	59	39	24.37	252.72	1494.72	
				TOTAL	252.72	1494.72	
3-25-92	3126160	60	763	27.43	27.43	1522.15	
3-25-92	3126161	61	38	27.91	55.34	1550.06	
3-25-92	3126162	62	384	24.54	79.88	1574.60	
3-25-92	3126163	63	257	27.53	107.41	1602.13	
3-25-92	3126164	64	424	26.00	133.41	1628.13	
3-25-92	3126165	65	48	25.70	159.11	1653.83	
3-25-92	3126166	66	430	26.13	185.24	1679.96	
3-25-92	3126167	67	40	25.53	210.77	1705.49	
3-25-92	3126168	68	700	22.85	233.62	1728.34	
3-25-92	3126169	69	45	22.98	256.60	1751.32	
				TOTAL	256.60	1751.32	
3-26-92	3126170	70	39	24.95	24.95	1776.27	
3-26-92	3126171	71	9	25.72	50.67	1801.99	
3-26-92	3126172	72	44	26.20	76.87	1828.19	
3-26-92	3126173	73	49	26.09	102.96	1854.28	
3-26-92	3126174	74	41	25.47	128.43	1879.75	
3-26-92	3126175	75	257	28.54	156.97	1908.29	
3-26-92	3126176	76	424	27.97	184.94	1936.26	
				TOTAL	184.94	1936.26	
3-27-92	3126177	77	45	26.61	26.61	1962.87	
3-27-92	3126178	78	707	23.60	50.21	1986.47	
3-27-92	3126179	79	38	25.39	75.60	2011.86	
3-27-92	3126180	80	433	32.14	107.74	2044.00	
3-27-92	3126181	81	328	30.06	137.80	2074.06	
3-27-92	3126182	82	275	30.89	168.69	2104.95	
3-27-92	3126183	83	238	29.24	197.93	2134.19	
3-27-92	3126184	84	205	23.24	221.17	2157.43	
3-27-92	3126185	void			221.17	2157.43	
3-27-92	3126186	85	732	35.04	256.21	2192.47	
3-27-92	3126187	86	767	28.73	284.94	2221.20	
3-27-92	3126188	87	705	23.44	308.38	2244.64	
3-27-92	3126189	88	247	24.32	332.70	2268.96	

CEDAR CHEMICAL
TRANSPORATION LOG

DATE	MANIFEST #	DOC #	TRUCK NUMBER	CERT. ON-SITE WEIGHTS	DAILY ON-SITE TONNAGE	TO DATE CERT. TOTAL
3-27-92	3126190	89	210	27.71	360.41	2296.67
3-27-92	3126191	90	269	28.81	389.22	2325.48
3-27-92	3126192	91	385	24.25	413.47	2349.73
3-27-92	3126193	92	350	24.23	437.70	2373.96
				TOTAL	437.70	2373.96
3-28-92	3126194	93	40	25.79	25.79	2399.75
3-28-92	3126195	94	42	24.95	50.74	2424.70
3-28-92	3126196	95	49	27.24	77.98	2451.94
3-28-92	3126197	96	48	24.80	102.78	2476.74
3-28-92	3126198	97	704	23.82	126.60	2500.56
3-28-92	3126199	98	702	25.09	151.69	2525.65
3-28-92	3126200	99	861	24.63	176.32	2550.28
3-28-92	3129676	100	9	25.71	202.03	2575.99
3-28-92	3129677	101	257	28.24	230.27	2604.23
3-28-92	3129678	102	424	26.44	256.71	2630.67
3-28-92	3129679	103	41	25.01	281.72	2655.68
				TOTAL	281.72	2655.68
3-29-92	3129680	104	337	28.58	28.58	2684.26
3-29-92	3129681	105	202	27.15	55.73	2711.41
3-29-92	3129682	106	275	31.05	86.78	2742.46
3-29-92	3129683	107	44	26.64	113.42	2769.10
3-29-92	3129684	108	49	30.19	143.61	2799.29
3-29-92	3129685	109	42	25.96	169.57	2825.25
3-29-92	3129686	110	732	27.27	196.84	2852.52
3-29-92	3129687	111	205	23.94	220.78	2876.46
3-29-92	3129688	112	247	25.14	245.92	2901.60
3-29-92	3129689	113	238	29.15	275.07	2930.75
3-29-92	3129690	114	350	25.00	300.07	2955.75
3-29-92	3129691	115	895	31.55	331.62	2987.30
3-29-92	3129692	116	41	26.62	358.24	3013.92
3-29-92	3129693	117	861	25.05	383.29	3038.97
3-29-92	3129694	118	763	25.37	408.66	3064.34
				TOTAL	408.66	3064.34
3-30-92	3129695	119	427	27.17	27.17	3091.51
3-30-92	3129696	120	429	25.74	52.91	3117.25
3-30-92	3129697	121	439	26.07	78.98	3143.32
3-30-92	3129698	122	422	26.02	105.00	3169.34
3-30-92	3129699	123	352	24.12	129.12	3193.46
3-30-92	3129700	124	734	24.52	153.64	3217.98
3-30-92	3129701	125	733	25.37	179.01	3243.35
3-30-92	3129702	126	48	26.31	205.32	3269.66
3-30-92	3129703	127	877	22.96	228.28	3292.62
3-30-92	3129704	128	707	25.09	253.37	3317.71
3-30-92	3129705	129	895	29.93	283.30	3347.64
				TOTAL	283.30	3347.64

APPENDIX D

Results of Confirmation Sampling and Analyses

Pit No. 1

Chemical Waste Management, Inc.
Southern Region Laboratory
P.O. Box 2563
Highway 73, 3.5 Miles West of Taylors Bayou (UPS-77640)
Port Arthur, Texas 77643-2563
409/736-2555
FAX. 409/736-3414

Southern Regional Laboratory

Analytical Report Cover Page

Lab I D:	CCC-0009
Customer I D:	P1-W
Sample Matrix:	SOIL

Sample Arrived: 12:00:00 27 MAR 1992
Report Completed: 12:19:21 30 MAR 1992

Overall Sample Status: Reported
Final Report: Yes

PCP Status: None

Dioxin Status: None

PNA Status: None

BETX Status: None

BNA Status: Reported

Wet Chemistry Status: None

Final Report Generated at 12:19:21 on 30 MAR 1992

Chemical Waste Management, Inc.
Southern Region Laboratory
P.O. Box 2563
Highway 73, 3.5 Miles West of Taylors Bayou (UPS-77640)
Port Arthur, Texas 77643-2563
409/736-2555
FAX. 409/736-3414

Lab ID: CCC-0009
Customer: ENRAC - South
Customer ID: P1 - W
Description: Soil
Report Date: 03/30/92

Semivolatiles by SW846 Method 8270

Date Analyzed: 03/28/92
Analyst: HAB
Reviewer: [illegible]

ANALYTE	UNITS	PQL	RESULTS	FLAGS
1,2,4,5-Tetrachlorobenzene	mg/kg (ppm)	0.45	< PQL	U
1,2,4-Trichlorobenzene	mg/kg (ppm)	0.33	< PQL	U
1,2-Dichlorobenzene	mg/kg (ppm)	0.23	< PQL	U
1,3-Dichlorobenzene	mg/kg (ppm)	0.23	< PQL	U
1,4-Dichlorobenzene	mg/kg (ppm)	0.18	< PQL	U
2,4,5-Trichlorophenol	mg/kg (ppm)	0.37	< PQL	U
2,4,6-Trichlorophenol	mg/kg (ppm)	0.60	< PQL	U
2,4-Dichlorophenol	mg/kg (ppm)	0.39	< PQL	U
2,4-Dimethylphenol	mg/kg (ppm)	0.64	< PQL	U
2,4-Dinitrophenol	mg/kg (ppm)	1.2	< PQL	U
2,4-Dinitrotoluene	mg/kg (ppm)	0.27	< PQL	U
2,6-Dinitrotoluene	mg/kg (ppm)	0.25	< PQL	U
2-Chloronaphthalene	mg/kg (ppm)	0.20	< PQL	U
2-Chlorophenol	mg/kg (ppm)	0.36	< PQL	U
2-Methylnaphthalene	mg/kg (ppm)	0.35	< PQL	U
2-Methylphenol	mg/kg (ppm)	1.6	< PQL	U
2-Nitroaniline	mg/kg (ppm)	0.22	< PQL	U
2-Nitrophenol	mg/kg (ppm)	0.39	< PQL	U
2-sec-Butyl-4,6-dinitrophenol	mg/kg (ppm)	0.82	< PQL	U
3,3'-Dichlorobenzidine	mg/kg (ppm)	0.75	< PQL	U
3+4-Methylphenol	mg/kg (ppm)	0.60	< PQL	U
3-Nitroaniline	mg/kg (ppm)	0.28	< PQL	U
4,6-Dinitro-2-methylphenol	mg/kg (ppm)	0.39	< PQL	U
4-Bromophenyl-phenylether	mg/kg (ppm)	0.23	< PQL	U
4-Chloroaniline	mg/kg (ppm)	0.39	< PQL	U
4-Chlorophenyl-phenylether	mg/kg (ppm)	0.20	< PQL	U
4-Chloro-3-methylphenol	mg/kg (ppm)	0.38	< PQL	U
4-Nitroaniline	mg/kg (ppm)	0.18	< PQL	U
4-Nitrophenol	mg/kg (ppm)	3.3	< PQL	U
Acenaphthene	mg/kg (ppm)	0.32	< PQL	U
Acenaphthylene	mg/kg (ppm)	0.23	< PQL	U
Aniline	mg/kg (ppm)	0.40	< PQL	U
Anthracene	mg/kg (ppm)	0.29	< PQL	U
Azobenzene	mg/kg (ppm)	0.23	< PQL	U
Benzidine	mg/kg (ppm)	6.4	< PQL	U
Benzoic acid	mg/kg (ppm)	6.3	< PQL	U

Chemical Waste Management, Inc.
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Port Arthur, Texas 77643-2563
409/736-2555
FAX: 409/736-3414

Lab ID: CCC-0009
Customer: ENRAC - South
Customer ID: P1 - W
Description: Soil
Report Date: 03/30/92

Semivolatiles by SW846 Method 8270

Date Analyzed: 03/28/92
Analyst: HAB
Reviewer: Ec

ANALYTE	UNITS	PQL	RESULTS	FLAGS
Benzo(a)anthracene	mg/kg (ppm)	0.35	< PQL	U
Benzo(a)pyrene	mg/kg (ppm)	0.22	< PQL	U
Benzo(b)fluoranthene	mg/kg (ppm)	0.29	< PQL	U
Benzo(g,h,i)perylene	mg/kg (ppm)	0.27	< PQL	U
Benzo(k)fluoranthene	mg/kg (ppm)	0.37	< PQL	U
Benzyl alcohol	mg/kg (ppm)	0.31	< PQL	U
bis(2-Chloroethoxy)methane	mg/kg (ppm)	0.30	< PQL	U
bis(2-Chloroisopropyl)ether	mg/kg (ppm)	1.2	< PQL	U
bis(2-Cloroethyl)ether	mg/kg (ppm)	0.22	< PQL	U
bis(2-Ethylhexyl)phthalate	mg/kg (ppm)	1.9	11	B
Butylbenzylphthalate	mg/kg (ppm)	0.24	< PQL	U
Chrysene	mg/kg (ppm)	0.29	< PQL	U
Dibenzofuran	mg/kg (ppm)	0.22	< PQL	U
Dibenz(a,h)anthracene	mg/kg (ppm)	0.22	< PQL	U
Diethylphthalate	mg/kg (ppm)	0.062	< PQL	U
Dimethylphthalate	mg/kg (ppm)	0.028	< PQL	U
Di-n-butylphthalate	mg/kg (ppm)	0.22	< PQL	U
Di-n-octylphthalate	mg/kg (ppm)	0.24	< PQL	U
Fluoranthene	mg/kg (ppm)	0.27	< PQL	U
Fluorene	mg/kg (ppm)	1.2	< PQL	U
Hexachlorobenzene	mg/kg (ppm)	0.25	< PQL	U
Hexachlorobutadiene	mg/kg (ppm)	0.11	< PQL	U
Hexachlorocyclopentadiene	mg/kg (ppm)	5.2	< PQL	U
Hexachloroethane	mg/kg (ppm)	0.16	< PQL	U
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.24	< PQL	U
Naphthalene	mg/kg (ppm)	0.23	< PQL	U
Nitrobenzene	mg/kg (ppm)	0.29	< PQL	U
N-Nitrosodimethylamine	mg/kg (ppm)	0.81	< PQL	U
N-Nitrosodiphenylamine	mg/kg (ppm)	0.51	< PQL	U
N-Nitroso-di-n-propylamine	mg/kg (ppm)	0.76	< PQL	U
Pentachlorophenol	mg/kg (ppm)	4.1	< PQL	U
Phenanthrene	mg/kg (ppm)	0.21	< PQL	U
Phenol	mg/kg (ppm)	0.36	< PQL	U
Pyrene	mg/kg (ppm)	0.33	< PQL	U
Pyridine	mg/kg (ppm)	0.30	< PQL	U

Chemical Waste Management, Inc.
Southern Region Laboratory
P.O. Box 2563
Highway 73, 3.5 Miles West of Taylors Bayou (UPS-77640)
Port Arthur, Texas 77643-2563
409/736-2555
FAX: 409/736-3414

Lab ID: CCC-0009
Customer: ENRAC - South
Customer ID: P1 - W
Description: Soil
Report Date: 03/30/92

Semivolatiles by SW846 Method 8270

Date Analyzed: 03/28/92
Analyst: HAB
Reviewer:

ANALYTE	UNITS	PQL	RESULTS	FLAGS

Flag Legend

B - Compound is found in the blank, as well as the sample.
U - Compound analyzed for, but not detected above the PQL.

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FAX. 409/736-3414

Southern Regional Laboratory

Analytical Report Cover Page

Lab I D:	CCC-0010
Customer I D:	P1-C
Sample Matrix:	SOIL

Sample Arrived: 12:00:00 27 MAR 1992
Report Completed: 12:20:29 30 MAR 1992

Overall Sample Status: Reported
Final Report: Yes

PCP Status: None

Dioxin Status: None

PNA Status: None

BETX Status: None

BNA Status: Reported

Wet Chemistry Status: None

Final Report Generated at 12:20:29 on 30 MAR 1992

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FAX: 409/736-3414

Lab ID: CCC-0010
Customer: ENRAC - South
Customer ID: P1 - C
Description: Soil
Report Date: 03/30/92

Semivolatiles by SW846 Method 8270

Date Analyzed: 03/28/92
Analyst: HAB
Reviewer: E

ANALYTE	UNITS	PQL	RESULTS	FLAGS
1,2,4,5-Tetrachlorobenzene	mg/kg (ppm)	0.45	< PQL	U
1,2,4-Trichlorobenzene	mg/kg (ppm)	0.33	< PQL	U
1,2-Dichlorobenzene	mg/kg (ppm)	0.23	< PQL	U
1,3-Dichlorobenzene	mg/kg (ppm)	0.23	< PQL	U
1,4-Dichlorobenzene	mg/kg (ppm)	0.18	< PQL	U
2,4,5-Trichlorophenol	mg/kg (ppm)	0.37	< PQL	U
2,4,6-Trichlorophenol	mg/kg (ppm)	0.60	< PQL	U
2,4-Dichlorophenol	mg/kg (ppm)	0.39	< PQL	U
2,4-Dimethylphenol	mg/kg (ppm)	0.64	< PQL	U
2,4-Dinitrophenol	mg/kg (ppm)	1.2	< PQL	U
2,4-Dinitrotoluene	mg/kg (ppm)	0.27	< PQL	U
2,6-Dinitrotoluene	mg/kg (ppm)	0.25	< PQL	U
2-Chloronaphthalene	mg/kg (ppm)	0.20	< PQL	U
2-Chlorophenol	mg/kg (ppm)	0.36	< PQL	U
2-Methylnaphthalene	mg/kg (ppm)	0.35	< PQL	U
2-Methylphenol	mg/kg (ppm)	1.6	< PQL	U
2-Nitroaniline	mg/kg (ppm)	0.22	< PQL	U
2-Nitrophenol	mg/kg (ppm)	0.39	< PQL	U
2-sec-Butyl-4,6-dinitrophenol	mg/kg (ppm)	0.82	< PQL	U
3,3'-Dichlorobenzidine	mg/kg (ppm)	0.75	< PQL	U
3+4-Methylphenol	mg/kg (ppm)	0.60	< PQL	U
3-Nitroaniline	mg/kg (ppm)	0.28	< PQL	U
4,6-Dinitro-2-methylphenol	mg/kg (ppm)	0.39	< PQL	U
4-Bromophenyl-phenylether	mg/kg (ppm)	0.23	< PQL	U
4-Chloroaniline	mg/kg (ppm)	0.39	< PQL	U
4-Chlorophenyl-phenylether	mg/kg (ppm)	0.20	< PQL	U
4-Chloro-3-methylphenol	mg/kg (ppm)	0.38	< PQL	U
4-Nitroaniline	mg/kg (ppm)	0.18	< PQL	U
4-Nitrophenol	mg/kg (ppm)	3.3	< PQL	U
Acenaphthene	mg/kg (ppm)	0.32	< PQL	U
Acenaphthylene	mg/kg (ppm)	0.23	< PQL	U
Aniline	mg/kg (ppm)	0.40	< PQL	U
Anthracene	mg/kg (ppm)	0.29	< PQL	U
Azobenzene	mg/kg (ppm)	0.23	< PQL	U
Benzidine	mg/kg (ppm)	6.4	< PQL	U
Benzoic acid	mg/kg (ppm)	6.3	< PQL	U

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FAX. 409/736-3414

Lab ID: CCC-0010
Customer: ENRAC – South
Customer ID: P1 – C
Description: Soil
Report Date: 03/30/92

Semivolatiles by SW846 Method 8270

Date Analyzed: 03/28/92
Analyst: HAB
Reviewer: Ec

ANALYTE	UNITS	PQL	RESULTS	FLAGS
Benzo(a)anthracene	mg/kg (ppm)	0.35	< PQL	U
Benzo(a)pyrene	mg/kg (ppm)	0.22	< PQL	U
Benzo(b)fluoranthene	mg/kg (ppm)	0.29	< PQL	U
Benzo(g,h,i)perylene	mg/kg (ppm)	0.27	< PQL	U
Benzo(k)fluoranthene	mg/kg (ppm)	0.37	< PQL	U
Benzyl alcohol	mg/kg (ppm)	0.31	< PQL	U
bis(2-Chloroethoxy)methane	mg/kg (ppm)	0.30	< PQL	U
bis(2-Chloroisopropyl)ether	mg/kg (ppm)	1.2	< PQL	U
bis(2-Cloroethyl)ether	mg/kg (ppm)	0.22	< PQL	U
bis(2-Ethylhexyl)phthalate	mg/kg (ppm)	1.9	7.8	B
Butylbenzylphthalate	mg/kg (ppm)	0.24	< PQL	U
Chrysene	mg/kg (ppm)	0.29	< PQL	U
Dibenzofuran	mg/kg (ppm)	0.22	< PQL	U
Dibenz(a,h)anthracene	mg/kg (ppm)	0.22	< PQL	U
Diethylphthalate	mg/kg (ppm)	0.062	< PQL	U
Dimethylphthalate	mg/kg (ppm)	0.028	< PQL	U
Di-n-butylphthalate	mg/kg (ppm)	0.22	< PQL	U
Di-n-octylphthalate	mg/kg (ppm)	0.24	< PQL	U
Fluoranthene	mg/kg (ppm)	0.27	< PQL	U
Fluorene	mg/kg (ppm)	1.2	< PQL	U
Hexachlorobenzene	mg/kg (ppm)	0.25	< PQL	U
Hexachlorobutadiene	mg/kg (ppm)	0.11	< PQL	U
Hexachlorocyclopentadiene	mg/kg (ppm)	5.2	< PQL	U
Hexachloroethane	mg/kg (ppm)	0.16	< PQL	U
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.24	< PQL	U
Naphthalene	mg/kg (ppm)	0.23	< PQL	U
Nitrobenzene	mg/kg (ppm)	0.29	< PQL	U
N-Nitrosodimethylamine	mg/kg (ppm)	0.81	< PQL	U
N-Nitrosodiphenylamine	mg/kg (ppm)	0.51	< PQL	U
N-Nitroso-di-n-propylamine	mg/kg (ppm)	0.76	< PQL	U
Pentachlorophenol	mg/kg (ppm)	4.1	< PQL	U
Phenanthrene	mg/kg (ppm)	0.21	< PQL	U
Phenol	mg/kg (ppm)	0.36	< PQL	U
Pyrene	mg/kg (ppm)	0.33	< PQL	U
Pyridine	mg/kg (ppm)	0.30	< PQL	U

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409/736-2555
FAX. 409/736-3414

Lab ID: CCC-0010
Customer: ENRAC - South
Customer ID: P1 - C
Description: Soil
Report Date: 03/30/92

Semivolatiles by SW846 Method 8270

Date Analyzed: 03/28/92
Analyst: HAB
Reviewer:

ANALYTE	UNITS	PQL	RESULTS	FLAGS

Flag Legend

B - Compound is found in the blank, as well as the sample.
U - Compound analyzed for, but not detected above the PQL.

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409/736-2555
FAX: 409/736-3414

Southern Regional Laboratory

Analytical Report Cover Page

Lab I D:	CCC-0011
Customer I D:	P1-E
Sample Matrix:	SOIL

Sample Arrived: 12:00:00 27 MAR 1992
Report Completed: 12:21:55 30 MAR 1992

Overall Sample Status: Reported
Final Report: Yes

PCP Status: None

Dioxin Status: None

PNA Status: None

BETX Status: None

BNA Status: Reported

Wet Chemistry Status: None

Final Report Generated at 12:21:55 on 30 MAR 1992

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409/736-2555
FAX: 409/736-3414

Lab ID: CCC-0011
Customer: ENRAC - South
Customer ID: P1 - E
Description: Soil
Report Date: 03/30/92

Semivolatiles by SW846 Method 8270

Date Analyzed: 03/28/92
Analyst: HAB
Reviewer: Ec

ANALYTE	UNITS	PQL	RESULTS	FLAGS
1,2,4,5-Tetrachlorobenzene	mg/kg (ppm)	0.45	< PQL	U
1,2,4-Trichlorobenzene	mg/kg (ppm)	0.33	< PQL	U
1,2-Dichlorobenzene	mg/kg (ppm)	0.23	< PQL	U
1,3-Dichlorobenzene	mg/kg (ppm)	0.23	< PQL	U
1,4-Dichlorobenzene	mg/kg (ppm)	0.18	< PQL	U
2,4,5-Trichlorophenol	mg/kg (ppm)	0.37	< PQL	U
2,4,6-Trichlorophenol	mg/kg (ppm)	0.60	< PQL	U
2,4-Dichlorophenol	mg/kg (ppm)	0.39	< PQL	U
2,4-Dimethylphenol	mg/kg (ppm)	0.64	< PQL	U
2,4-Dinitrophenol	mg/kg (ppm)	1.2	< PQL	U
2,4-Dinitrotoluene	mg/kg (ppm)	0.27	< PQL	U
2,6-Dinitrotoluene	mg/kg (ppm)	0.25	< PQL	U
2-Chloronaphthalene	mg/kg (ppm)	0.20	< PQL	U
2-Chlorophenol	mg/kg (ppm)	0.36	< PQL	U
2-Methylnaphthalene	mg/kg (ppm)	0.35	< PQL	U
2-Methylphenol	mg/kg (ppm)	1.6	< PQL	U
2-Nitroaniline	mg/kg (ppm)	0.22	< PQL	U
2-Nitrophenol	mg/kg (ppm)	0.39	< PQL	U
2-sec-Butyl-4,6-dinitrophenol	mg/kg (ppm)	0.82	< PQL	U
3,3'-Dichlorobenzidine	mg/kg (ppm)	0.75	< PQL	U
3+4-Methylphenol	mg/kg (ppm)	0.60	< PQL	U
3-Nitroaniline	mg/kg (ppm)	0.28	< PQL	U
4,6-Dinitro-2-methylphenol	mg/kg (ppm)	0.39	< PQL	U
4-Bromophenyl-phenylether	mg/kg (ppm)	0.23	< PQL	U
4-Chloroaniline	mg/kg (ppm)	0.39	< PQL	U
4-Chlorophenyl-phenylether	mg/kg (ppm)	0.20	< PQL	U
4-Chloro-3-methylphenol	mg/kg (ppm)	0.38	< PQL	U
4-Nitroaniline	mg/kg (ppm)	0.18	< PQL	U
4-Nitrophenol	mg/kg (ppm)	3.3	< PQL	U
Acenaphthene	mg/kg (ppm)	0.32	< PQL	U
Acenaphthylene	mg/kg (ppm)	0.23	< PQL	U
Aniline	mg/kg (ppm)	0.40	< PQL	U
Anthracene	mg/kg (ppm)	0.29	< PQL	U
Azobenzene	mg/kg (ppm)	0.23	< PQL	U
Benzidine	mg/kg (ppm)	6.4	< PQL	U
Benzoic acid	mg/kg (ppm)	6.3	< PQL	U

Chemical Waste Management, Inc.
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Port Arthur, Texas 77643-2563
409/736-2558
FAX 409/736-3414

Lab ID: CCC-0011
Customer: ENRAC - South
Customer ID: P1 - E
Description: Soil
Report Date: 03/30/92

Semivolatiles by SW846 Method 8270

Date Analyzed: 03/28/92
Analyst: HAB
Reviewer: Ee

ANALYTE	UNITS	PQL	RESULTS	FLAGS
Benzo(a)anthracene	mg/kg (ppm)	0.35	< PQL	U
Benzo(a)pyrene	mg/kg (ppm)	0.22	< PQL	U
Benzo(b)fluoranthene	mg/kg (ppm)	0.29	< PQL	U
Benzo(g,h,i)perylene	mg/kg (ppm)	0.27	< PQL	U
Benzo(k)fluoranthene	mg/kg (ppm)	0.37	< PQL	U
Benzyl alcohol	mg/kg (ppm)	0.31	< PQL	U
bis(2-Chloroethoxy)methane	mg/kg (ppm)	0.30	< PQL	U
bis(2-Chloroisopropyl)ether	mg/kg (ppm)	1.2	< PQL	U
bis(2-Cloroethyl)ether	mg/kg (ppm)	0.22	< PQL	U
bis(2-Ethylhexyl)phthalate	mg/kg (ppm)	1.9	9.6	B
Butylbenzylphthalate	mg/kg (ppm)	0.24	< PQL	U
Chrysene	mg/kg (ppm)	0.29	< PQL	U
Dibenzofuran	mg/kg (ppm)	0.22	< PQL	U
Dibenz(a,h)anthracene	mg/kg (ppm)	0.22	< PQL	U
Diethylphthalate	mg/kg (ppm)	0.062	< PQL	U
Dimethylphthalate	mg/kg (ppm)	0.028	< PQL	U
Di-n-butylphthalate	mg/kg (ppm)	0.22	< PQL	U
Di-n-octylphthalate	mg/kg (ppm)	0.24	< PQL	U
Fluoranthene	mg/kg (ppm)	0.27	< PQL	U
Fluorene	mg/kg (ppm)	1.2	< PQL	U
Hexachlorobenzene	mg/kg (ppm)	0.25	< PQL	U
Hexachlorobutadiene	mg/kg (ppm)	0.11	< PQL	U
Hexachlorocyclopentadiene	mg/kg (ppm)	5.2	< PQL	U
Hexachloroethane	mg/kg (ppm)	0.16	< PQL	U
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.24	< PQL	U
Naphthalene	mg/kg (ppm)	0.23	< PQL	U
Nitrobenzene	mg/kg (ppm)	0.29	< PQL	U
N-Nitrosodimethylamine	mg/kg (ppm)	0.81	< PQL	U
N-Nitrosodiphenylamine	mg/kg (ppm)	0.51	< PQL	U
N-Nitroso-di-n-propylamine	mg/kg (ppm)	0.76	< PQL	U
Pentachlorophenol	mg/kg (ppm)	4.1	< PQL	U
Phenanthrene	mg/kg (ppm)	0.21	< PQL	U
Phenol	mg/kg (ppm)	0.36	< PQL	U
Pyrene	mg/kg (ppm)	0.33	< PQL	U
Pyridine	mg/kg (ppm)	0.30	< PQL	U

Chemical Waste Management, Inc.
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Port Arthur, Texas 77643-2563
409/736-2555
FAX: 409/736-3414

Lab ID: CCC-0011
Customer: ENRAC – South
Customer ID: P1 – E
Description: Soil
Report Date: 03/30/92

Semivolatiles by SW846 Method 8270				
Date Analyzed: 03/28/92 Analyst: HAB Reviewer: Eo				
ANALYTE	UNITS	PQL	RESULTS	FLAGS

Flag Legend
B – Compound is found in the blank, as well as the sample.
U – Compound analyzed for, but not detected above the PQL.

Chemical Waste Management, Inc.
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409/736-2555
FAX: 409/736-3414

Southern Regional Laboratory

Analytical Report Cover Page

Lab I D:	CCC-0012
Customer I D:	P1-COMP
Sample Matrix:	SOIL

Sample Arrived: 12:00:00 27 MAR 1992
Report Completed: 12:22:58 30 MAR 1992

Overall Sample Status: Reported
Final Report: Yes

PCP Status: None

Dioxin Status: None

PNA Status: None

BETX Status: None

BNA Status: None

Wet Chemistry Status: None

VOA Status: Reported

Final Report Generated at 16:07:32 on 30 MAR 1992

Chemical Waste Management, Inc.

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Highway 73. 3.5 Miles West of Taylors Bayou (UPS-77640)
Port Arthur, Texas 77643-2563
409/736-2555
FAX 409/736-3414

Lab ID: CCC-0012
Customer: ENRAC
Customer ID: P1 – Comp
Description: Soil
Report Date: 03/30/92

VOLATILES By SW846 Method 8240

Date Analyzed: 03/28/92
Analyst: MLL
Reviewer: [illegible]

ANALYTE	UNITS	PQL	RESULTS	FLAGS
1,1,1-Trichloroethane	µg/kg (ppb)	5.6	< PQL	U
1,1,1,2-Tetrachloroethane	µg/kg (ppb)	6.9	< PQL	U
1,1,2,2-Tetrachloroethane	µg/kg (ppb)	15	< PQL	U
1,1,2-Trichloroethane	µg/kg (ppb)	3.1	< PQL	U
1,1,2-Trichlorotrifluoroethane	µg/kg (ppb)	4.5	< PQL	U
1,1-Dichloroethane	µg/kg (ppb)	3.2	< PQL	U
1,1-Dichloroethene	µg/kg (ppb)	3.6	< PQL	U
1,2-Dibromo-3-chloropropane	µg/kg (ppb)	11	< PQL	U
1,2-Dibromomethane	µg/kg (ppb)	5.0	< PQL	U
1,2-Dichloroethane	µg/kg (ppb)	2.1	< PQL	U
1,2-Dichloropropane	µg/kg (ppb)	1.3	< PQL	U
1,2,3-Trichloropropane	µg/kg (ppb)	9.5	< PQL	U
2-Butanone	µg/kg (ppb)	16	< PQL	U
2-Chloroethyl vinyl ether	µg/kg (ppb)	2.0	< PQL	U
2-Hexanone	µg/kg (ppb)	8.8	< PQL	U
4-Methyl-2-pentanone	µg/kg (ppb)	16	150,000	
Acetone	µg/kg (ppb)	6.0	260,000	
Acetonitrile	µg/kg (ppb)	9.4	< PQL	U
Acrolein	µg/kg (ppb)	8.0	< PQL	U
Acrylonitrile	µg/kg (ppb)	5.3	< PQL	U
Allyl Chloride	µg/kg (ppb)	6.4	< PQL	U
Benzene	µg/kg (ppb)	1.2	< PQL	U
Bromodichloromethane	µg/kg (ppb)	3.1	< PQL	U
Bromoform	µg/kg (ppb)	7.8	< PQL	U
Bromomethane	µg/kg (ppb)	2.4	< PQL	U
Carbon disulfide	µg/kg (ppb)	3.2	< PQL	U
Carbon tetrachloride	µg/kg (ppb)	1.6	< PQL	U
Chlorobenzene	µg/kg (ppb)	2.1	< PQL	U
Chloroethane	µg/kg (ppb)	2.2	< PQL	U
Chloroform	µg/kg (ppb)	2.1	< PQL	U
Chloromethane	µg/kg (ppb)	1.9	< PQL	U
Chloroprene	µg/kg (ppb)	3.9	< PQL	U
cis-1,3-dichloropropene	µg/kg (ppb)	2.7	< PQL	U
Dibromochloromethane	µg/kg (ppb)	3.4	< PQL	U
Dibromomethane	µg/kg (ppb)	3.8	< PQL	U
Ethanol	µg/kg (ppb)	3.8	< PQL	U

Methyl Oxide

Chemical Waste Management, Inc.
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Port Arthur, Texas 77643-2563
409/736-2555
FAX: 409/736-3414

Lab ID: CCC-0012
Customer: ENRAC
Customer ID: P1 – Comp
Description: Soil
Report Date: 03/30/92

VOLATILES By SW846 Method 8240

Date Analyzed: 03/28/92
Analyst: MLL
Reviewer: [illegible]

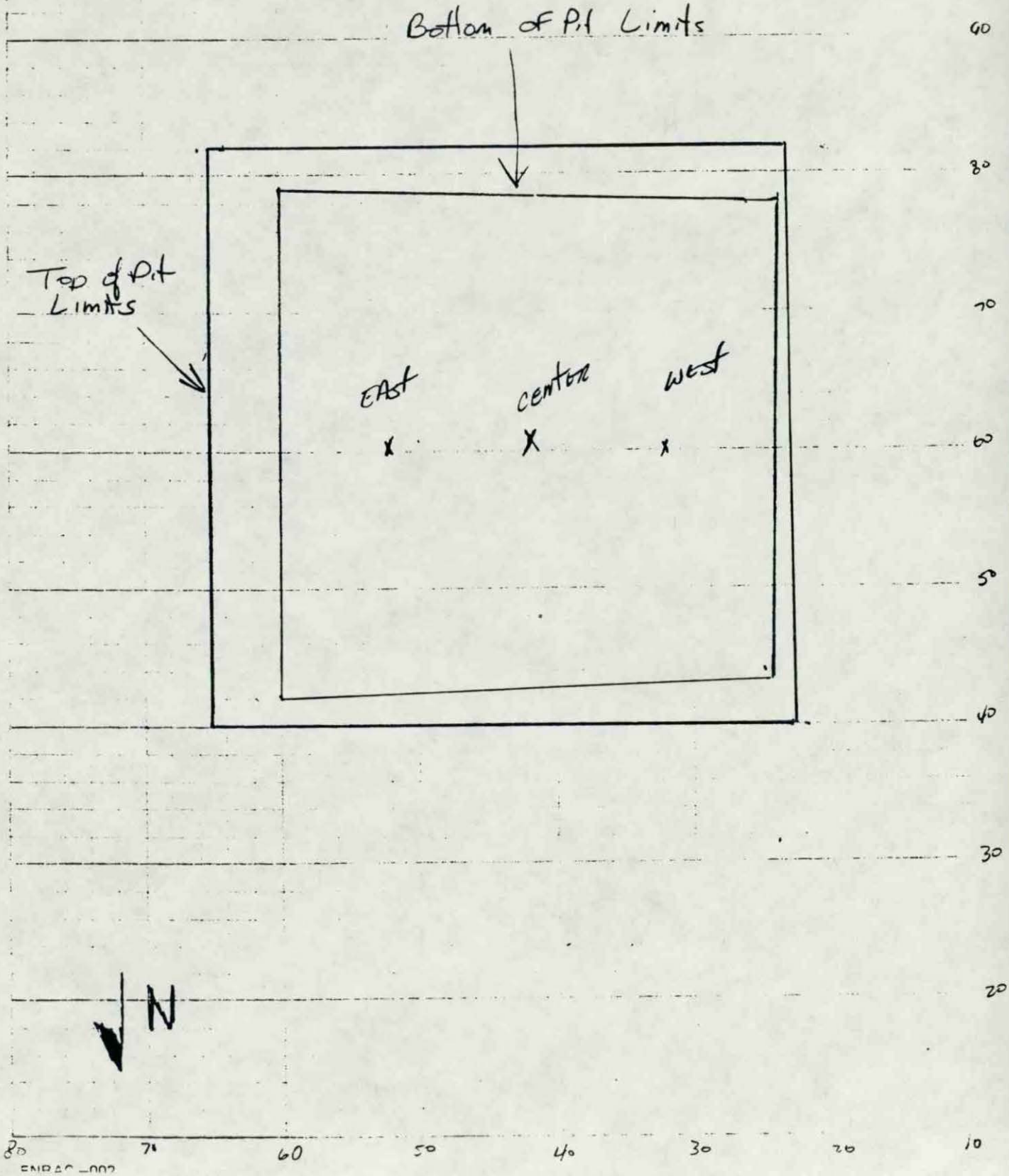
ANALYTE	UNITS	PQL	RESULTS	FLAGS
Ethyl acetate	µg/kg (ppb)	8.3	< PQL	U
Ethyl ether	µg/kg (ppb)	7.1	< PQL	U
Ethyl methacrylate	µg/kg (ppb)	4.1	< PQL	U
Ethylbenzene	µg/kg (ppb)	5.9	< PQL	U
Iodomethane	µg/kg (ppb)	6.1	< PQL	U
Isobutyl alcohol	µg/kg (ppb)	20	< PQL	U
Methylacrylonitrile	µg/kg (ppb)	11	< PQL	U
Methyl methacrylate	µg/kg (ppb)	11	< PQL	U
Methylene chloride	µg/kg (ppb)	3.9	< PQL	U
Proprionitrile	µg/kg (ppb)	21	< PQL	U
Styrene	µg/kg (ppb)	3.2	< PQL	U
Tetrachloroethene	µg/kg (ppb)	2.6	< PQL	U
Toluene	µg/kg (ppb)	1.1	< PQL	U
trans-1,2-dichloroethene	µg/kg (ppb)	2.5	< PQL	U
trans-1,3-dichloropropene	µg/kg (ppb)	1.8	< PQL	U
Trichloroethane	µg/kg (ppb)	1.2	< PQL	U
Trichlorofluoromethane	µg/kg (ppb)	5.5	< PQL	U
Vinyl Chloride	µg/kg (ppb)	1.9	< PQL	U
Xylenes	µg/kg (ppb)	11	< PQL	U

Flag Legend

B – Compound is found in the blank, as well as the sample.
U – Compound analyzed for, but not detected above the PQL.

CWM-ENRAC	SUBJECT Cedar Chemical Pit #1		
	Job No.	Made by Kevin Sullivan	Date 3/24/92
	Ref.	Checked	Sheet 1 of 1
		Reviewed	

ELEVATION — 20.1
BM - 2.6 (Top of Fire Hydrant)



CWM-ENRAC	SUBJECT Sample Procedure Pit #1		
	Job No.	Made by Kevin Johnson	Date 3/26/92
	Ref.	Checked	Sheet of
		Reviewed	

1) Center of Pit Located by using the Bottom of the Excavation walls.

2) Sample points layed out. (3 points)
   1) One in the center of the bottom
   2) One 10 ft East of Center point
   3) One 10 ft West of Center point.

3) Stainless Steel Trowels were used to obtain the samples. One for each point. Each Trowel was properly Decontaminated with Hexane & Distilled water prior to use and wrapped in Aluminum Foil.

4) At each point a Approx. 100 cm sq. was removed from 0' to 6" deep

5) Sample was placed directly in a Pre Cleaned 1 quart sample jar.

6) The jar was filled and all air pockets were removed leaving no Head space.

7) Samples Jars were labled prior to being filled and additional lables were put on after filling.

8) Samples were then transported to Cedar Chemical lab. and put in Refrigerator.

APPENDIX E

Results of Confirmation Sampling and Analyses

Pit No. 2

Chemical Waste Management, Inc.
Southern Region Laboratory
P.O. Box 2563
Highway 73, 3.5 Miles West of Taylors Bayou (UPS-77640)
Port Arthur, Texas 77643-2563
409/736-2555
FAX: 409/736-3414

SVOA Sample Narrative

Enclosed are the results of the analysis of three samples, P2-W, P2-E, and P2-C, submitted on April 3, 1992.

Representative portions of these samples were extracted in accordance with EPA SW846 Method 3540, and then analyzed in accordance with EPA SW846 Method 8270 using a Hewlett-Packard 5890 series II Gas Chromatograph/Mass Spectrometer (GC/MS) for a calibrated list of target compounds. An instrument performance check (IPC), quality control check (QC), and method blank were analyzed with this sample in accordance with the quality assurance program (QAP).

The results of the analysis of the sample, Port Arthur numbers CCC-0013 through CCC-0015, are contained within the data package.

I certify that this sample data package is complete and in compliance with the contracted agreement. Release of this data has been authorized by the laboratory manager and is verified by the following signature.

John C. Terry
Special Projects Manager
Southern Region

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AB123

Lab Name: CHEMWASTE/PTA Contract: CEDAR CHEM.

Lab Code: HP001 Case No.: AD-76 SAS No.: 12345 SDG No.: 123456

Matrix: (soil/water) SOIL Lab Sample ID: CCC-0007

Sample wt/vol: 1000 (g/mL) mL Lab File ID: >C0660

Level: (low/med) LOW Date Received: 03/04/92

% Moisture: not dec.---- dec. ---- Date Extracted: 03/04/92

GPC Cleanup: (Y/N) N pH: 7.2 Date Analyzed: 03/05/92

Final Extract Volume: 1 (uL) Dilution Factor: 1.00000

Injection Volume: 1 (uL) Conversion Factor: 1.0000

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) mg/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.
1.		ortho-Dichloronitrobenzene	11.98	12.0
2.				
3.				
4.				
5.				
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7.				
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Chemical Waste Management, Inc.
Port Arthur Facility
SWAR Addendum / Analytical Report

Lab ID No: CCC-0008
Description: 2-10-V/S
Requestor: M. Greer
Generator: Cedar Chemical
Analysis Date: 04-Mar-92
Analyst: MLL
Reviewer: BMB
Units: µg/kg (ppb)

VOLATILES By SW846 Method 8240

ANALYTE	MDL	RESULT
1,1,1-Trichloroethane	5.6	< MDL
1,1,1,2-Tetrachloroethane	6.9	< MDL
1,1,2,2-Tetrachloroethane	15	< MDL
1,1,2-Trichloroethane	3.1	< MDL
1,1,2-Trichlorotrifluoroethane	4.5	< MDL
1,1-Dichloroethane	3.2	< MDL
1,1-Dichloroethene	3.6	< MDL
1,2-Dibromo-3-chloropropane	11	< MDL
1,2-Dibromomethane	5.0	< MDL
1,2-Dichloroethane	2.1	< MDL
1,2-Dichloropropane	1.3	< MDL
1,2,3-Trichloropropane	9.5	< MDL
2-Butanone	16	< MDL
2-Chloroethyl vinyl ether	2.0	< MDL
2-Hexanone	8.8	< MDL
4-Methyl-2-pentanone	16	< MDL
Acetone	6.0	110
Acetonitrile	9.4	< MDL
Acrolein	8.0	< MDL
Acrylonitrile	5.3	< MDL
Allyl Chloride	6.4	< MDL
Benzene	1.2	38
Bromodichloromethane	3.1	< MDL
Bromoform	7.8	< MDL
Bromomethane	2.4	< MDL
Carbon disulfide	3.2	< MDL
Carbon tetrachloride	1.6	< MDL
Chlorobenzene	2.1	< MDL
Chloroethane	2.2	< MDL
Chloroform	2.1	< MDL

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Chemical Waste Management, Inc.
Port Arthur Facility
SWAR Addendum / Analytical Report

Lab ID No: CCC-0008
Description: 2-10-V/S
Requestor: M. Greer
Generator: Cedar Chemical
Analysis Date: 04-Mar-92
Analyst: MLL
Reviewer: BMP
Units: µg/kg (ppb)

VOLATILES By SW846 Method 8240

ANALYTE	MDL	RESULT
Chloromethane	1.9	< MDL
Chloroprene	3.9	< MDL
cis-1,3-dichloropropene	2.7	< MDL
Dibromochloromethane	3.4	< MDL
Dibromomethane	3.8	< MDL
Ethanol	3.8	< MDL
Ethyl acetate	8.3	< MDL
Ethyl ether	7.1	< MDL
Ethyl methacrylate	4.1	< MDL
Ethylbenzene	5.9	150
Iodomethane	6.1	< MDL
Isobutyl alcohol	20	< MDL
Methylacrylonitrile	11	< MDL
Methyl methacrylate	11	< MDL
Methylene chloride	3.9	64
Proprionitrile	21	< MDL
Styrene	3.2	< MDL
Tetrachloroethene	2.6	< MDL
Toluene	1.1	220
trans-1,2-dichloroethene	2.5	< MDL
trans-1,3-dichloropropene	1.8	< MDL
Trichloroethane	1.2	< MDL
Trichlorofluoromethane	5.5	< MDL
Vinyl Chloride	1.9	< MDL
Xylenes	11	300

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EPA SAMPLE NO.

AB123

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: New CLP Forms Contract: CCC-0008

Lab Code: HP001 Case No.: AD-76 SAS No.: 12345 SDG No.: 123456

Matrix: (soil/water) SOIL Lab Sample ID: CCC-0008

Sample wt/vol: 1000 (g/mL) mL Lab File ID: >B3143

Level: (low/med) LOW Date Received: 03/04/92

% Moisture: not dec.---- dec. ---- Date Extracted: 03/04/92

Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 3/04/92

GPC Cleanup: (Y/N) N pH: 7.2 Dilution Factor: 1.00000

Number TICs found: 10 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.611143	Ethylmethylbenzene	20.01	330.0	
2.108678	Trimethylbenzene	20.15	190.0	
3.611143	Ethylmethylbenzene	20.44	130.0	
4.526738	Trimethylbenzene	20.72	400.0	
5.526738	Trimethylbenzene	21.35	130.0	
6.1074175	Methylpropylbenzene	21.67	70.0	
7.95932	Tetramethylbenzene	22.97	66.0	
8.527537	Tetramethylbenzene	23.05	100.0	
9.874351	Dihydromethyl-1H-Indene	23.68	180.0	
10.91203	Napthalene	24.65	140.0	
11.				
12.				
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Chemical Waste Management, Inc.
Port Arthur Facility
SWAR Addendum / Analytical Report

Lab ID No: CCC-0008
Description: 2-10-V/S
Requestor: CWM - ENRAC
Generator: CEDAR CHEMICAL
Analysis Date: 07-Mar-92
Analyst: HAB
Reviewer: mc
Units: mg/kg (ppm)

SEMI-VOLATILES By SW846 Method 8270

ANALYTE	MDL	RESULT
1,2,4,5-Tetrachlorobenzene	0.45	< MDL
1,2,4-Trichlorobenzene	0.33	< MDL
1,2-Dichlorobenzene	0.23	< MDL
1,3-Dichlorobenzene	0.23	< MDL
1,4-Dichlorobenzene	0.18	< MDL
2,4,5-Trichlorophenol	0.37	< MDL
2,4,6-Trichlorophenol	0.60	< MDL
2,4-Dichlorophenol	0.39	< MDL
2,4-Dimethylphenol	0.64	< MDL
2,4-Dinitrophenol	1.2	< MDL
2,4-Dinitrotoluene	0.27	< MDL
2,6-Dinitrotoluene	0.25	< MDL
2-Chloronaphthalene	0.20	< MDL
2-Chlorophenol	0.36	< MDL
2-Methylnaphthalene	0.35	24
2-Methylphenol	1.6	< MDL
2-Nitroaniline	0.22	< MDL
2-Nitrophenol	0.39	< MDL
2-sec-Butyl-4,6-dinitrophenol	0.82	650
3,3'-Dichlorobenzidine	0.75	< MDL
3+4-Methylphenol	0.60	< MDL
3-Nitroaniline	0.28	< MDL
4,6-Dinitro-2-methylphenol	0.39	< MDL
4-Bromophenyl-phenylether	0.23	< MDL
4-Chloroaniline	0.39	< MDL
4-Chlorophenyl-phenylether	0.20	< MDL
4-Chloro-3-methylphenol	0.38	< MDL
4-Nitroaniline	0.18	< MDL
4-Nitrophenol	3.3	< MDL
Acenaphthene	0.32	< MDL

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Chemical Waste Management, Inc.
Port Arthur Facility
SWAR Addendum / Analytical Report

Lab ID No: CCC-0008
Description: 2-10-V/S
Requestor: CWM - ENRAC
Generator: CEDAR CHEMICAL
Analysis Date: 07-Mar-92
Analyst: HAB
Reviewer:
Units: mg/kg (ppm)

SEMI-VOLATILES By SW846 Method 8270

ANALYTE	MDL	RESULT	
Acenaphthylene	0.23	< MDL	
Aniline	0.40	< MDL	
Anthracene	0.29	< MDL	
Azobenzene	0.23	< MDL	
Benzidine	6.4	< MDL	
Benzoic acid	6.3	< MDL	
Benzo(a)anthracene	0.35	< MDL	
Benzo(a)pyrene	0.22	< MDL	
Benzo(b)fluoranthene	0.29	< MDL	
Benzo(g,h,i)perylene	0.27	< MDL	
Benzo(k)fluoranthene	0.37	< MDL	
Benzyl alcohol	0.31	< MDL	
bis(2-Chloroethoxy)methane	0.30	< MDL	
bis(2-Chloroisopropyl)ether	1.2	< MDL	
bis(2-Cloroethyl)ether	0.22	< MDL	
bis(2-Ethylhexyl)phthalate	1.9	59	B
Butylbenzylphthalate	0.24	< MDL	
Chrysene	0.29	< MDL	
Dibenzofuran	0.22	< MDL	
Dibenz(a,h)anthracene	0.22	< MDL	
Diethylphthalate	0.062	< MDL	
Dimethylphthalate	0.028	< MDL	
Di-n-butylphthalate	0.22	5.2	B
Di-n-octylphthalate	0.24	< MDL	
Fluoranthene	0.27	< MDL	
Fluorene	1.2	< MDL	
Hexachlorobenzene	0.25	< MDL	
Hexachlorobutadiene	0.11	< MDL	
Hexachlorocyclopentadiene	5.2	< MDL	
Hexachloroethane	0.16	< MDL	

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Chemical Waste Management, Inc.
Port Arthur Facility
SWAR Addendum / Analytical Report

Lab ID No: CCC-0008
Description: 2-10-V/S
Requestor: CWM - ENRAC
Generator: CEDAR CHEMICAL
Analysis Date: 07-Mar-92
Analyst: HAB
Reviewer:
Units: mg/kg (ppm)

SEMI-VOLATILES By SW846 Method 8270

ANALYTE	MDL	RESULT
Indeno(1,2,3-cd)pyrene	0.24	< MDL
Naphthalene	0.23	9.1
Nitrobenzene	0.29	< MDL
N-Nitrosodimethylamine	0.81	< MDL
N-Nitrosodiphenylamine	0.51	< MDL
N-Nitroso-di-n-propylamine	0.76	< MDL
Pentachlorophenol	4.1	< MDL
Phenanthrene	0.21	< MDL
Phenol	0.36	< MDL
Pyrene	0.33	< MDL
Pyridine	0.30	< MDL

NOTE: MDL = Method Detection Limit

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AB123

Lab Name: CHEMWASTE/PTA Contract: CEDAR CHEM.

Lab Code: HP001 Case No.: AD-76 SAS No.: 12345 SDG No.: 123456

Matrix: (soil/water) SOIL Lab Sample ID: CCC-0008

Sample wt/vol: 1000 (g/mL) mL Lab File ID: >A5562

Level: (low/med) LOW Date Received: 03/04/92

% Moisture: not dec.---- dec. ---- Date Extracted: 03/04/92

GPC Cleanup: (Y/N) N pH: 7.2 Date Analyzed: 03/06/92

Final Extract Volume: 1 (uL) Dilution Factor: 1.00000

Injection Volume: 1 (uL) Conversion Factor: 1.0000

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/Kg) mg/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.
1.	Nonane	4.92	20.0
2.	Unidentified acid ester	9.32	18.0
3.	Unidentified acid ester	9.64	35.0
4.	Dimethylnapthalene	11.07	16.0
5.	Unidentified Amine	11.40	63.0
6.	Unidentified acid ester	11.48	52.0
7.	Unidentified acid ester	12.13	37.0
8.	Unidentified acid ester	14.75	15.0
9.	Dichlorobenzenamine	14.93	42.0
10.	Amino-sec-butyl-Nitrophenol	15.91	50.0
11.			
12.			
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Chemical Waste Management, Inc.
Port Arthur Facility
SWAR Addendum / Analytical Report

Lab ID No: 3780-06-25
Description: Method Blank
Requestor: CWM - ENRAC
Generator: CEDAR CHEMICAL
Analysis Date: 07-Mar-92
Analyst: HAB
Reviewer: [illegible]
Units: mg/kg (ppm)

SEMI-VOLATILES By SW846 Method 8270

ANALYTE	MDL	RESULT
1,2,4,5-Tetrachlorobenzene	0.45	< MDL
1,2,4-Trichlorobenzene	0.33	< MDL
1,2-Dichlorobenzene	0.23	< MDL
1,3-Dichlorobenzene	0.23	< MDL
1,4-Dichlorobenzene	0.18	< MDL
2,4,5-Trichlorophenol	0.37	< MDL
2,4,6-Trichlorophenol	0.60	< MDL
2,4-Dichlorophenol	0.39	< MDL
2,4-Dimethylphenol	0.64	< MDL
2,4-Dinitrophenol	1.2	< MDL
2,4-Dinitrotoluene	0.27	< MDL
2,6-Dinitrotoluene	0.25	< MDL
2-Chloronaphthalene	0.20	< MDL
2-Chlorophenol	0.36	< MDL
2-Methylnaphthalene	0.35	< MDL
2-Methylphenol	1.6	< MDL
2-Nitroaniline	0.22	< MDL
2-Nitrophenol	0.39	< MDL
2-sec-Butyl-4,6-dinitrophenol	0.82	< MDL
3,3'-Dichlorobenzidine	0.75	< MDL
3+4-Methylphenol	0.60	< MDL
3-Nitroaniline	0.28	< MDL
4,6-Dinitro-2-methylphenol	0.39	< MDL
4-Bromophenyl-phenylether	0.23	< MDL
4-Chloroaniline	0.39	< MDL
4-Chlorophenyl-phenylether	0.20	< MDL
4-Chloro-3-methylphenol	0.38	< MDL
4-Nitroaniline	0.18	< MDL
4-Nitrophenol	3.3	< MDL
Acenaphthene	0.32	< MDL

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Chemical Waste Management, Inc.
Port Arthur Facility
SWAR Addendum / Analytical Report

Lab ID No: 3780-06-25
Description: Method Blank
Requestor: CWM - ENRAC
Generator: CEDAR CHEMICAL
Analysis Date: 07-Mar-92
Analyst: HAB
Reviewer:
Units: mg/kg (ppm)

SEMI-VOLATILES By SW846 Method 8270

ANALYTE	MDL	RESULT
Acenaphthylene	0.23	< MDL
Aniline	0.40	< MDL
Anthracene	0.29	< MDL
Azobenzene	0.23	< MDL
Benzidine	6.4	< MDL
Benzoic acid	6.3	< MDL
Benzo(a)anthracene	0.35	< MDL
Benzo(a)pyrene	0.22	< MDL
Benzo(b)fluoranthene	0.29	< MDL
Benzo(g,h,i)perylene	0.27	< MDL
Benzo(k)fluoranthene	0.37	< MDL
Benzyl alcohol	0.31	< MDL
bis(2-Chloroethoxy)methane	0.30	< MDL
bis(2-Chloroisopropyl)ether	1.2	< MDL
bis(2-Cloroethyl)ether	0.22	< MDL
bis(2-Ethylhexyl)phthalate	1.9	2.1
Butylbenzylphthalate	0.24	< MDL
Chrysene	0.29	< MDL
Dibenzofuran	0.22	< MDL
Dibenz(a,h)anthracene	0.22	< MDL
Diethylphthalate	0.062	< MDL
Dimethylphthalate	0.028	< MDL
Di-n-butylphthalate	0.22	5.5
Di-n-octylphthalate	0.24	< MDL
Fluoranthene	0.27	< MDL
Fluorene	1.2	< MDL
Hexachlorobenzene	0.25	< MDL
Hexachlorobutadiene	0.11	< MDL
Hexachlorocyclopentadiene	5.2	< MDL
Hexachloroethane	0.16	< MDL

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Chemical Waste Management, Inc.
Port Arthur Facility
SWAR Addendum / Analytical Report

Lab ID No: 3780-06-25
Description: Method Blank
Requestor: CWM - ENRAC
Generator: CEDAR CHEMICAL
Analysis Date: 07-Mar-92
Analyst: HAB
Reviewer:
Units: mg/kg (ppm)

SEMI-VOLATILES By SW846 Method 8270

ANALYTE	MDL	RESULT
Indeno(1,2,3-cd)pyrene	0.24	< MDL
Naphthalene	0.23	< MDL
Nitrobenzene	0.29	< MDL
N-Nitrosodimethylamine	0.81	< MDL
N-Nitrosodiphenylamine	0.51	< MDL
N-Nitroso-di-n-propylamine	0.76	< MDL
Pentachlorophenol	4.1	< MDL
Phenanthrene	0.21	< MDL
Phenol	0.36	< MDL
Pyrene	0.33	< MDL
Pyridine	0.30	< MDL

NOTE: MDL = Method Detection Limit

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APPENDIX C

Listing of Manifests and Disposal Quantities

Chemical Waste Management, Inc.
Port Arthur Facility
SWAR Addendum / Analytical Report

Lab ID No: CCC-0005
Description: 2Z-1-V/S
Requestor: M. Greer
Generator: Cedar Chemical
Analysis Date: 04-Mar-92
Analyst: MLL
Reviewer: BMB
Units: µg/kg (ppb)

VOLATILES By SW846 Method 8240

ANALYTE	MDL	RESULT
Chloromethane	1.9	< MDL
Chloroprene	3.9	< MDL
cis-1,3-dichloropropene	2.7	< MDL
Dibromochloromethane	3.4	< MDL
Dibromomethane	3.8	< MDL
Ethanol	3.8	< MDL
Ethyl acetate	8.3	< MDL
Ethyl ether	7.1	< MDL
Ethyl methacrylate	4.1	< MDL
Ethylbenzene	5.9	< MDL
Iodomethane	6.1	< MDL
Isobutyl alcohol	20	< MDL
Methylacrylonitrile	11	< MDL
Methyl methacrylate	11	< MDL
Methylene chloride	3.9	52
Propionitrile	21	< MDL
Styrene	3.2	< MDL
Tetrachloroethene	2.6	< MDL
Toluene	1.1	27
trans-1,2-dichloroethene	2.5	< MDL
trans-1,3-dichloropropene	1.8	< MDL
Trichloroethane	1.2	< MDL
Trichlorofluoromethane	5.5	< MDL
Vinyl Chloride	1.9	< MDL
Xylenes	11	< MDL

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1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

AB123

Lab Name: New CLP Forms Contract: CCC-0005

Lab Code: HP001 Case No.: AD-76 SAS No.: 12345 SDG No.: 123456

Matrix: (soil/water) SOIL Lab Sample ID: CCC-0005

Sample wt/vol: 1000 (g/mL) mL Lab File ID: >B3139

Level: (low/med) LOW Date Received: 03/04/92

% Moisture: not dec.---- dec. ---- Date Extracted: 03/04/92

Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 3/04/92

GPC Cleanup: (Y/N) N pH: 7.2 Dilution Factor: 1.00000

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	108872	Methylcyclohexane	13.46	13.0	
2.					
3.					
4.					
5.					
6.					
7.					
8.					
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Chemical Waste Management, Inc.
Port Arthur Facility
SWAR Addendum / Analytical Report

Lab ID No: CCC-0005
Description: 2-1-V/S
Requestor: CWM - ENRAC
Generator: CEDAR CHEMICAL
Analysis Date: 07-Mar-92
Analyst: HAB
Reviewer: m
Units: mg/kg (ppm)

SEMI-VOLATILES By SW846 Method 8270

CORRECTED COPY

ANALYTE	MDL	RESULT
1,2,4,5-Tetrachlorobenzene	0.45	< MDL
1,2,4-Trichlorobenzene	0.33	< MDL
1,2-Dichlorobenzene	0.23	1.7
1,3-Dichlorobenzene	0.23	< MDL
1,4-Dichlorobenzene	0.18	< MDL
2,4,5-Trichlorophenol	0.37	< MDL
2,4,6-Trichlorophenol	0.60	< MDL
2,4-Dichlorophenol	0.39	< MDL
2,4-Dimethylphenol	0.64	< MDL
2,4-Dinitrophenol	1.2	< MDL
2,4-Dinitrotoluene	0.27	< MDL
2,6-Dinitrotoluene	0.25	< MDL
2-Chloronaphthalene	0.20	< MDL
2-Chlorophenol	0.36	< MDL
2-Methylnaphthalene	0.35	< MDL
2-Methylphenol	1.6	< MDL
2-Nitroaniline	0.22	< MDL
2-Nitrophenol	0.39	< MDL
2-sec-Butyl-4,6-dinitrophenol	0.82	55
3,3'-Dichlorobenzidine	0.75	< MDL
3+4-Methylphenol	0.60	< MDL
3-Nitroaniline	0.28	< MDL
4,6-Dinitro-2-methylphenol	0.39	< MDL
4-Bromophenyl-phenylether	0.23	< MDL
4-Chloroaniline	0.39	< MDL
4-Chlorophenyl-phenylether	0.20	< MDL
4-Chloro-3-methylphenol	0.38	< MDL
4-Nitroaniline	0.18	< MDL
4-Nitrophenol	3.3	< MDL
Acenaphthene	0.32	< MDL

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Chemical Waste Management, Inc.
Port Arthur Facility
SWAR Addendum / Analytical Report

Lab ID No: CCC-0005
Description: 2-1-V/S
Requestor: CWM - ENRAC
Generator: CEDAR CHEMICAL
Analysis Date: 07-Mar-92
Analyst: HAB
Reviewer:
Units: mg/kg (ppm)

SEMI-VOLATILES By SW846 Method 8270

CORRECTED COPY

ANALYTE	MDL	RESULT	
Acenaphthylene	0.23	< MDL	
Aniline	0.40	< MDL	
Anthracene	0.29	< MDL	
Azobenzene	0.23	< MDL	
Benzidine	6.4	< MDL	
Benzoic acid	6.3	< MDL	
Benzo(a)anthracene	0.35	< MDL	
Benzo(a)pyrene	0.22	< MDL	
Benzo(b)fluoranthene	0.29	< MDL	
Benzo(g,h,i)perylene	0.27	< MDL	
Benzo(k)fluoranthene	0.37	< MDL	
Benzyl alcohol	0.31	< MDL	
bis(2-Chloroethoxy)methane	0.30	< MDL	
bis(2-Chloroisopropyl)ether	1.2	< MDL	
bis(2-Cloroethyl)ether	0.22	< MDL	
bis(2-Ethylhexyl)phthalate	1.9	7.8	B
Butylbenzylphthalate	0.24	< MDL	
Chrysene	0.29	< MDL	
Dibenzofuran	0.22	< MDL	
Dibenz(a,h)anthracene	0.22	< MDL	
Diethylphthalate	0.062	< MDL	
Dimethylphthalate	0.028	< MDL	
Di-n-butylphthalate	0.22	3.3	B
Di-n-octylphthalate	0.24	< MDL	
Fluoranthene	0.27	< MDL	
Fluorene	1.2	< MDL	
Hexachlorobenzene	0.25	< MDL	
Hexachlorobutadiene	0.11	< MDL	
Hexachlorocyclopentadiene	5.2	< MDL	
Hexachloroethane	0.16	< MDL	

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Chemical Waste Management, Inc.
Port Arthur Facility
SWAR Addendum / Analytical Report

Lab ID No: CCC-0005
Description: 2-1-V/S
Requestor: CWM - ENRAC
Generator: CEDAR CHEMICAL
Analysis Date: 07-Mar-92
Analyst: HAB
Reviewer:
Units: mg/kg (ppm)

SEMI-VOLATILES By SW846 Method 8270

CORRECTED COPY

ANALYTE	MDL	RESULT
Indeno(1,2,3-cd)pyrene	0.24	< MDL
Naphthalene	0.23	< MDL
Nitrobenzene	0.29	< MDL
N-Nitrosodimethylamine	0.81	< MDL
N-Nitrosodiphenylamine	0.51	< MDL
N-Nitroso-di-n-propylamine	0.76	< MDL
Pentachlorophenol	4.1	< MDL
Phenanthrene	0.21	< MDL
Phenol	0.36	< MDL
Pyrene	0.33	< MDL
Pyridine	0.30	< MDL

NOTE: MDL = Method Detection Limit

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

| AB123 |

Lab Name: CHEMWASTE/PTA Contract: CEDAR CHEM.

Lab Code: HP001 Case No.: AD-76 SAS No.: 12345 SDG No.: 123456

Matrix: (soil/water) SOIL Lab Sample ID: CCC-0005

Sample wt/vol: 1000 (g/mL) mL Lab File ID: >C0658

Level: (low/med) LOW Date Received: 03/04/92

% Moisture: not dec.---- dec. ---- Date Extracted: 03/04/92

GPC Cleanup: (Y/N) N pH: 7.2 Date Analyzed: 03/05/92

Final Extract Volume: 1 (uL) Dilution Factor: 1.00000

Injection Volume: 1 (uL) Conversion Factor: 1.0000

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) mg/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.
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Chemical Waste Management, Inc.
Port Arthur Facility
SWAR Addendum / Analytical Report

Lab ID No: CCC-0006
Description: 2-2-V/S
Requestor: M. Greer
Generator: Cedar Chemical
Analysis Date: 04-Mar-92
Analyst: MLL
Reviewer: BMP
Units: µg/kg (ppb)

VOLATILES By SW846 Method 8240

ANALYTE	MDL	RESULT
1,1,1-Trichloroethane	5.6	< MDL
1,1,1,2-Tetrachloroethane	6.9	< MDL
1,1,2,2-Tetrachloroethane	15	< MDL
1,1,2-Trichloroethane	3.1	< MDL
1,1,2-Trichlorotrifluoroethane	4.5	< MDL
1,1-Dichloroethane	3.2	< MDL
1,1-Dichloroethene	3.6	< MDL
1,2-Dibromo-3-chloropropane	11	< MDL
1,2-Dibromomethane	5.0	< MDL
1,2-Dichloroethane	2.1	< MDL
1,2-Dichloropropane	1.3	< MDL
1,2,3-Trichloropropane	9.5	< MDL
2-Butanone	16	< MDL
2-Chloroethyl vinyl ether	2.0	< MDL
2-Hexanone	8.8	< MDL
4-Methyl-2-pentanone	16	< MDL
Acetone	6.0	330
Acetonitrile	9.4	< MDL
Acrolein	8.0	< MDL
Acrylonitrile	5.3	< MDL
Allyl Chloride	6.4	< MDL
Benzene	1.2	< MDL
Bromodichloromethane	3.1	< MDL
Bromoform	7.8	< MDL
Bromomethane	2.4	< MDL
Carbon disulfide	3.2	< MDL
Carbon tetrachloride	1.6	< MDL
Chlorobenzene	2.1	< MDL
Chloroethane	2.2	< MDL
Chloroform	2.1	< MDL

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Chemical Waste Management, Inc.
Port Arthur Facility
SWAR Addendum / Analytical Report

Lab ID No: CCC-0006
Description: 2-2-V/S
Requestor: M. Greer
Generator: Cedar Chemical
Analysis Date: 04-Mar-92
Analyst: MLL
Reviewer: BMP
Units: µg/kg (ppb)

VOLATILES By SW846 Method 8240

ANALYTE	MDL	RESULT
Chloromethane	1.9	< MDL
Chloroprene	3.9	< MDL
cis-1,3-dichloropropene	2.7	< MDL
Dibromochloromethane	3.4	< MDL
Dibromomethane	3.8	< MDL
Ethanol	3.8	< MDL
Ethyl acetate	8.3	< MDL
Ethyl ether	7.1	< MDL
Ethyl methacrylate	4.1	< MDL
Ethylbenzene	5.9	< MDL
Iodomethane	6.1	< MDL
Isobutyl alcohol	20	< MDL
Methylacrylonitrile	11	< MDL
Methyl methacrylate	11	< MDL
Methylene chloride	3.9	57
Proprionitrile	21	< MDL
Styrene	3.2	< MDL
Tetrachloroethene	2.6	< MDL
Toluene	1.1	64
trans-1,2-dichloroethene	2.5	< MDL
trans-1,3-dichloropropene	1.8	< MDL
Trichloroethane	1.2	< MDL
Trichlorofluoromethane	5.5	< MDL
Vinyl Chloride	1.9	< MDL
Xylenes	11	< MDL

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1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

AB123

Lab Name: New CLP Forms Contract: CCC-0006

Lab Code: HP001 Case No.: AD-76 SAS No.: 12345 SDG No.: 123456

Matrix: (soil/water) SOIL Lab Sample ID: CCC-0006

Sample wt/vol: 1000 (g/mL) mL Lab File ID: >B3140

Level: (low/med) LOW Date Received: 03/04/92

% Moisture: not dec.---- dec. ---- Date Extracted: 03/04/92

Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 3/04/92

GPC Cleanup: (Y/N) N pH: 7.2 Dilution Factor: 1.00000

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 108872	Methylcyclohexane	13.44	40.0	
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Chemical Waste Management, Inc.
Port Arthur Facility
SWAR Addendum / Analytical Report

Lab ID No: CCC-0006
Description: 2-2-V/S
Requestor: CWM - ENRAC
Generator: CEDAR CHEMICAL
Analysis Date: 07-Mar-92
Analyst: HAB
Reviewer: M
Units: mg/kg (ppm)

SEMI-VOLATILES By SW846 Method 8270

CORRECTED COPY

ANALYTE	MDL	RESULT
1,2,4,5-Tetrachlorobenzene	0.45	< MDL
1,2,4-Trichlorobenzene	0.33	< MDL
1,2-Dichlorobenzene	0.23	2.5
1,3-Dichlorobenzene	0.23	< MDL
1,4-Dichlorobenzene	0.18	< MDL
2,4,5-Trichlorophenol	0.37	< MDL
2,4,6-Trichlorophenol	0.60	< MDL
2,4-Dichlorophenol	0.39	< MDL
2,4-Dimethylphenol	0.64	< MDL
2,4-Dinitrophenol	1.2	< MDL
2,4-Dinitrotoluene	0.27	< MDL
2,6-Dinitrotoluene	0.25	< MDL
2-Chloronaphthalene	0.20	< MDL
2-Chlorophenol	0.36	< MDL
2-Methylnaphthalene	0.35	< MDL
2-Methylphenol	1.6	< MDL
2-Nitroaniline	0.22	< MDL
2-Nitrophenol	0.39	< MDL
2-sec-Butyl-4,6-dinitrophenol	0.82	190
3,3'-Dichlorobenzidine	0.75	< MDL
3+4-Methylphenol	0.60	< MDL
3-Nitroaniline	0.28	< MDL
4,6-Dinitro-2-methylphenol	0.39	< MDL
4-Bromophenyl-phenylether	0.23	< MDL
4-Chloroaniline	0.39	< MDL
4-Chlorophenyl-phenylether	0.20	< MDL
4-Chloro-3-methylphenol	0.38	< MDL
4-Nitroaniline	0.18	< MDL
4-Nitrophenol	3.3	< MDL
Acenaphthene	0.32	< MDL

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Chemical Waste Management, Inc.
Port Arthur Facility
SWAR Addendum / Analytical Report

Lab ID No: CCC-0006
Description: 2-2-V/S
Requestor: CWM - ENRAC
Generator: CEDAR CHEMICAL
Analysis Date: 07-Mar-92
Analyst: HAB
Reviewer:
Units: mg/kg (ppm)

SEMI-VOLATILES By SW846 Method 8270

CORRECTED COPY

ANALYTE	MDL	RESULT	
Acenaphthylene	0.23	< MDL	
Aniline	0.40	< MDL	
Anthracene	0.29	< MDL	
Azobenzene	0.23	< MDL	
Benzidine	6.4	< MDL	
Benzoic acid	6.3	< MDL	
Benzo(a)anthracene	0.35	< MDL	
Benzo(a)pyrene	0.22	< MDL	
Benzo(b)fluoranthene	0.29	< MDL	
Benzo(g,h,i)perylene	0.27	< MDL	
Benzo(k)fluoranthene	0.37	< MDL	
Benzyl alcohol	0.31	< MDL	
bis(2-Chloroethoxy)methane	0.30	< MDL	
bis(2-Chloroisopropyl)ether	1.2	< MDL	
bis(2-Cloroethyl)ether	0.22	< MDL	
bis(2-Ethylhexyl)phthalate	1.9	6.8	B
Butylbenzylphthalate	0.24	< MDL	
Chrysene	0.29	< MDL	
Dibenzofuran	0.22	< MDL	
Dibenz(a,h)anthracene	0.22	< MDL	
Diethylphthalate	0.062	< MDL	
Dimethylphthalate	0.028	< MDL	
Di-n-butylphthalate	0.22	4.5	B
Di-n-octylphthalate	0.24	< MDL	
Fluoranthene	0.27	< MDL	
Fluorene	1.2	< MDL	
Hexachlorobenzene	0.25	< MDL	
Hexachlorobutadiene	0.11	< MDL	
Hexachlorocyclopentadiene	5.2	< MDL	
Hexachloroethane	0.16	< MDL	

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Chemical Waste Management, Inc.
Port Arthur Facility
SWAR Addendum / Analytical Report

Lab ID No: CCC-0006
Description: 2-2-V/S
Requestor: CWM - ENRAC
Generator: CEDAR CHEMICAL
Analysis Date: 07-Mar-92
Analyst: HAB
Reviewer:
Units: mg/kg (ppm)

SEMI-VOLATILES By SW846 Method 8270

CORRECTED COPY

ANALYTE	MDL	RESULT
Indeno(1,2,3-cd)pyrene	0.24	< MDL
Naphthalene	0.23	< MDL
Nitrobenzene	0.29	< MDL
N-Nitrosodimethylamine	0.81	< MDL
N-Nitrosodiphenylamine	0.51	< MDL
N-Nitroso-di-n-propylamine	0.76	< MDL
Pentachlorophenol	4.1	< MDL
Phenanthrene	0.21	< MDL
Phenol	0.36	< MDL
Pyrene	0.33	< MDL
Pyridine	0.30	< MDL

NOTE: MDL = Method Detection Limit

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

AB123

Lab Name: CHEMWASTE/PTA Contract: CEDAR CHEM.

Lab Code: HP001 Case No.: AD-76 SAS No.: 12345 SDG No.: 123456

Matrix: (soil/water) SOIL Lab Sample ID: CCC-0006

Sample wt/vol: 1000 (g/mL) mL Lab File ID: >C0659

Level: (low/med) LOW Date Received: 03/04/92

% Moisture: not dec.---- dec. ---- Date Extracted: 03/04/92

GPC Cleanup: (Y/N) N pH: 7.2 Date Analyzed: 03/05/92

Final Extract Volume: 1 (uL) Dilution Factor: 1.00000

Injection Volume: 1 (uL) Conversion Factor: 1.0000

CONCENTRATION UNITS:
(ug/L or ug/Kg) mg/kg

Number TICs found: 2

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.
1.	ortho-Dichloronitrobenzene	11.98	13.0
2.	Methoxychlor	21.58	20.0
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Chemical Waste Management, Inc.
Port Arthur Facility
SWAR Addendum / Analytical Report

Lab ID No: CCC-0007
Description: 2-3-V/S
Requestor: M. Greer
Generator: Cedar Chemical
Analysis Date: 04-Mar-92
Analyst: MLL
Reviewer: BMP.
Units: µg/kg (ppb)

VOLATILES By SW846 Method 8240

ANALYTE	MDL	RESULT
1,1,1-Trichloroethane	5.6	< MDL
1,1,1,2-Tetrachloroethane	6.9	< MDL
1,1,2,2-Tetrachloroethane	15	< MDL
1,1,2-Trichloroethane	3.1	< MDL
1,1,2-Trichlorotrifluoroethane	4.5	< MDL
1,1-Dichloroethane	3.2	< MDL
1,1-Dichloroethene	3.6	< MDL
1,2-Dibromo-3-chloropropane	11	< MDL
1,2-Dibromomethane	5.0	< MDL
1,2-Dichloroethane	2.1	< MDL
1,2-Dichloropropane	1.3	< MDL
1,2,3-Trichloropropane	9.5	< MDL
2-Butanone methy butyl Ketone	16	26
2-Chloroethyl vinyl ether	2.0	< MDL
2-Hexanone	8.8	< MDL
4-Methyl-2-pentanone	16	< MDL
Acetone	6.0	840
Acetonitrile	9.4	< MDL
Acrolein	8.0	< MDL
Acrylonitrile	5.3	< MDL
Allyl Chloride	6.4	< MDL
Benzene	1.2	< MDL
Bromodichloromethane	3.1	< MDL
Bromoform	7.8	< MDL
Bromomethane	2.4	< MDL
Carbon disulfide	3.2	< MDL
Carbon tetrachloride	1.6	< MDL
Chlorobenzene	2.1	< MDL
Chloroethane	2.2	< MDL
Chloroform	2.1	< MDL

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Chemical Waste Management, Inc.
Port Arthur Facility
SWAR Addendum / Analytical Report

Lab ID No: CCC-0007
Description: 2-3-V/S
Requestor: M. Greer
Generator: Cedar Chemical
Analysis Date: 04-Mar-92
Analyst: MLL
Reviewer: BMP
Units: µg/kg (ppb)

VOLATILES By SW846 Method 8240

ANALYTE	MDL	RESULT
Chloromethane	1.9	< MDL
Chloroprene	3.9	< MDL
cis-1,3-dichloropropene	2.7	< MDL
Dibromochloromethane	3.4	< MDL
Dibromomethane	3.8	< MDL
Ethanol	3.8	< MDL
Ethyl acetate	8.3	< MDL
Ethyl ether	7.1	< MDL
Ethyl methacrylate	4.1	< MDL
Ethylbenzene	5.9	< MDL
Iodomethane	6.1	< MDL
Isobutyl alcohol	20	< MDL
Methylacrylonitrile	11	< MDL
Methyl methacrylate	11	< MDL
Methylene chloride	3.9	41
Proprionitrile	21	< MDL
Styrene	3.2	< MDL
Tetrachloroethene	2.6	< MDL
Toluene	1.1	34
trans-1,2-dichloroethene	2.5	< MDL
trans-1,3-dichloropropene	1.8	< MDL
Trichloroethane	1.2	< MDL
Trichlorofluoromethane	5.5	< MDL
Vinyl Chloride	1.9	< MDL
Xylenes	11	15

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EPA SAMPLE NO.

AB123

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: New CLP Forms Contract: CCC-0007

Lab Code: HP001 Case No.: AD-76 SAS No.: 12345 SDG No.: 123456

Matrix: (soil/water) SOIL Lab Sample ID: CCC-0007

Sample wt/vol: 1000 (g/mL) mL Lab File ID: >B3141

Level: (low/med) LOW Date Received: 03/04/92

% Moisture: not dec.---- dec. ---- Date Extracted: 03/04/92

Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 3/04/92

GPC Cleanup: (Y/N) N pH: 7.2 Dilution Factor: 1.00000

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 108872	Methylcyclohexane	13.45	33.0	
2. 95501	1,2-Dichlorobenzene	21.81	48.0	
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Chemical Waste Management, Inc.
Port Arthur Facility
SWAR Addendum / Analytical Report

Lab ID No: CCC-0007
Description: 2-3-V/S
Requestor: CWM - ENRAC
Generator: CEDAR CHEMICAL
Analysis Date: 07-Mar-92
Analyst: HAB
Reviewer: [illegible]
Units: mg/kg (ppm)

SEMI-VOLATILES By SW846 Method 8270

ANALYTE	MDL	RESULT
1,2,4,5-Tetrachlorobenzene	0.45	< MDL
1,2,4-Trichlorobenzene	0.33	< MDL
1,2-Dichlorobenzene	0.23	1.2
1,3-Dichlorobenzene	0.23	< MDL
1,4-Dichlorobenzene	0.18	< MDL
2,4,5-Trichlorophenol	0.37	< MDL
2,4,6-Trichlorophenol	0.60	< MDL
2,4-Dichlorophenol	0.39	< MDL
2,4-Dimethylphenol	0.64	< MDL
2,4-Dinitrophenol	1.2	< MDL
2,4-Dinitrotoluene	0.27	< MDL
2,6-Dinitrotoluene	0.25	< MDL
2-Chloronaphthalene	0.20	< MDL
2-Chlorophenol	0.36	< MDL
2-Methylnaphthalene	0.35	< MDL
2-Methylphenol	1.6	< MDL
2-Nitroaniline	0.22	< MDL
2-Nitrophenol	0.39	< MDL
2-sec-Butyl-4,6-dinitrophenol	0.82	700
3,3'-Dichlorobenzidine	0.75	< MDL
3+4-Methylphenol	0.60	< MDL
3-Nitroaniline	0.28	< MDL
4,6-Dinitro-2-methylphenol	0.39	< MDL
4-Bromophenyl-phenylether	0.23	< MDL
4-Chloroaniline	0.39	< MDL
4-Chlorophenyl-phenylether	0.20	< MDL
4-Chloro-3-methylphenol	0.38	< MDL
4-Nitroaniline	0.18	< MDL
4-Nitrophenol	3.3	< MDL
Acenaphthene	0.32	< MDL

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Chemical Waste Management, Inc.
Port Arthur Facility
SWAR Addendum / Analytical Report

Lab ID No: CCC-0007
Description: 2-3-V/S
Requestor: CWM - ENRAC
Generator: CEDAR CHEMICAL
Analysis Date: 07-Mar-92
Analyst: HAB
Reviewer:
Units: mg/kg (ppm)

SEMI-VOLATILES By SW846 Method 8270

ANALYTE	MDL	RESULT	
Acenaphthylene	0.23	< MDL	
Aniline	0.40	< MDL	
Anthracene	0.29	< MDL	
Azobenzene	0.23	< MDL	
Benzidine	6.4	< MDL	
Benzoic acid	6.3	< MDL	
Benzo(a)anthracene	0.35	< MDL	
Benzo(a)pyrene	0.22	< MDL	
Benzo(b)fluoranthene	0.29	< MDL	
Benzo(g,h,i)perylene	0.27	< MDL	
Benzo(k)fluoranthene	0.37	< MDL	
Benzyl alcohol	0.31	< MDL	
bis(2-Chloroethoxy)methane	0.30	< MDL	
bis(2-Chloroisopropyl)ether	1.2	< MDL	
bis(2-Cloroethyl)ether	0.22	< MDL	
bis(2-Ethylhexyl)phthalate	1.9	4.8	B
Butylbenzylphthalate	0.24	< MDL	
Chrysene	0.29	< MDL	
Dibenzofuran	0.22	< MDL	
Dibenz(a,h)anthracene	0.22	< MDL	
Diethylphthalate	0.062	< MDL	
Dimethylphthalate	0.028	< MDL	
Di-n-butylphthalate	0.22	3.9	B
Di-n-octylphthalate	0.24	< MDL	
Fluoranthene	0.27	< MDL	
Fluorene	1.2	< MDL	
Hexachlorobenzene	0.25	< MDL	
Hexachlorobutadiene	0.11	< MDL	
Hexachlorocyclopentadiene	5.2	< MDL	
Hexachloroethane	0.16	< MDL	

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Chemical Waste Management, Inc.
Port Arthur Facility
SWAR Addendum / Analytical Report

Lab ID No: CCC-0007
Description: 2-3-V/S
Requestor: CWM - ENRAC
Generator: CEDAR CHEMICAL
Analysis Date: 07-Mar-92
Analyst: HAB
Reviewer:
Units: mg/kg (ppm)

SEMI-VOLATILES By SW846 Method 8270

ANALYTE	MDL	RESULT
Indeno(1,2,3-cd)pyrene	0.24	< MDL
Naphthalene	0.23	< MDL
Nitrobenzene	0.29	< MDL
N-Nitrosodimethylamine	0.81	< MDL
N-Nitrosodiphenylamine	0.51	< MDL
N-Nitroso-di-n-propylamine	0.76	< MDL
Pentachlorophenol	4.1	< MDL
Phenanthrene	0.21	< MDL
Phenol	0.36	< MDL
Pyrene	0.33	< MDL
Pyridine	0.30	< MDL

NOTE: MDL = Method Detection Limit

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Chemical Waste Management, Inc.
Port Arthur Facility
SWAR Addendum / Analytical Report

Lab ID No: CCC-0002
Description: 1-2-V/S
Requestor: M. Greer
Generator: Cedar Chemical
Analysis Date: 04-Mar-92
Analyst: MLL
Reviewer: BMP
Units: µg/kg (ppb)

VOLATILES By SW846 Method 8240

ANALYTE	MDL	RESULT
1,1,1-Trichloroethane	5.6	< MDL
1,1,1,2-Tetrachloroethane	6.9	< MDL
1,1,2,2-Tetrachloroethane	15	< MDL
1,1,2-Trichloroethane	3.1	< MDL
1,1,2-Trichlorotrifluoroethane	4.5	< MDL
1,1-Dichloroethane	3.2	< MDL
1,1-Dichloroethene	3.6	< MDL
1,2-Dibromo-3-chloropropane	11	< MDL
1,2-Dibromomethane	5.0	< MDL
1,2-Dichloroethane	2.1	< MDL
1,2-Dichloropropane	1.3	< MDL
1,2,3-Trichloropropane	9.5	< MDL
2-Butanone	16	< MDL
2-Chloroethyl vinyl ether	2.0	< MDL
2-Hexanone	8.8	< MDL
4-Methyl-2-pentanone	16	< MDL
Acetone	6.0	64
Acetonitrile	9.4	< MDL
Acrolein	8.0	< MDL
Acrylonitrile	5.3	< MDL
Allyl Chloride	6.4	< MDL
Benzene	1.2	< MDL
Bromodichloromethane	3.1	< MDL
Bromoform	7.8	< MDL
Bromomethane	2.4	< MDL
Carbon disulfide	3.2	< MDL
Carbon tetrachloride	1.6	< MDL
Chlorobenzene	2.1	< MDL
Chloroethane	2.2	< MDL
Chloroform	2.1	< MDL

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Chemical Waste Management, Inc.
Port Arthur Facility
SWAR Addendum / Analytical Report

Lab ID No: CCC-0002
Description: 1-2-V/S
Requestor: M. Greer
Generator: Cedar Chemical
Analysis Date: 04-Mar-92
Analyst: MLL
Reviewer: BMP
Units: µg/kg (ppb)

VOLATILES By SW846 Method 8240

ANALYTE	MDL	RESULT
Chloromethane	1.9	< MDL
Chloroprene	3.9	< MDL
cis-1,3-dichloropropene	2.7	< MDL
Dibromochloromethane	3.4	< MDL
Dibromomethane	3.8	< MDL
Ethanol	3.8	< MDL
Ethyl acetate	8.3	< MDL
Ethyl ether	7.1	< MDL
Ethyl methacrylate	4.1	< MDL
Ethylbenzene	5.9	< MDL
Iodomethane	6.1	< MDL
Isobutyl alcohol	20	< MDL
Methylacrylonitrile	11	< MDL
Methyl methacrylate	11	< MDL
Methylene chloride	3.9	45
Propionitrile	21	< MDL
Styrene	3.2	< MDL
Tetrachloroethene	2.6	< MDL
Toluene	1.1	< MDL
trans-1,2-dichloroethene	2.5	< MDL
trans-1,3-dichloropropene	1.8	< MDL
Trichloroethane	1.2	< MDL
Trichlorofluoromethane	5.5	< MDL
Vinyl Chloride	1.9	< MDL
Xylenes	11	< MDL

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

AB123

Lab Name: New CLP Forms Contract: CCC-0002

Lab Code: HP001 Case No.: AD-76 SAS No.: 12345 SDG No.: 123456

Matrix: (soil/water) SOIL Lab Sample ID: CCC-0002

Sample wt/vol: 1000 (g/mL) mL Lab File ID: >B3137

Level: (low/med) LOW Date Received: 03/04/92

% Moisture: not dec.---- dec. ---- Date Extracted: 03/04/92

Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 3/04/92

GPC Cleanup: (Y/N) N pH: 7.2 Dilution Factor: 1.00000

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
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Chemical Waste Management, Inc.
Port Arthur Facility
SWAR Addendum / Analytical Report

Lab ID No: CCC-0002
Description: 1-2-V/S
Requestor: CWM - ENRAC
Generator: CEDAR CHEMICAL
Analysis Date: 07-Mar-92
Analyst: HAB
Reviewer: [illegible]
Units: mg/kg (ppm)

SEMI-VOLATILES By SW846 Method 8270

ANALYTE	MDL	RESULT
1,2,4,5-Tetrachlorobenzene	0.45	< MDL
1,2,4-Trichlorobenzene	0.33	< MDL
1,2-Dichlorobenzene	0.23	< MDL
1,3-Dichlorobenzene	0.23	< MDL
1,4-Dichlorobenzene	0.18	< MDL
2,4,5-Trichlorophenol	0.37	< MDL
2,4,6-Trichlorophenol	0.60	< MDL
2,4-Dichlorophenol	0.39	< MDL
2,4-Dimethylphenol	0.64	< MDL
2,4-Dinitrophenol	1.2	< MDL
2,4-Dinitrotoluene	0.27	< MDL
2,6-Dinitrotoluene	0.25	< MDL
2-Chloronaphthalene	0.20	< MDL
2-Chlorophenol	0.36	< MDL
2-Methylnaphthalene	0.35	< MDL
2-Methylphenol	1.6	< MDL
2-Nitroaniline	0.22	< MDL
2-Nitrophenol	0.39	< MDL
2-sec-Butyl-4,6-dinitrophenol	0.82	< MDL
3,3'-Dichlorobenzidine	0.75	< MDL
3+4-Methylphenol	0.60	< MDL
3-Nitroaniline	0.28	< MDL
4,6-Dinitro-2-methylphenol	0.39	< MDL
4-Bromophenyl-phenylether	0.23	< MDL
4-Chloroaniline	0.39	< MDL
4-Chlorophenyl-phenylether	0.20	< MDL
4-Chloro-3-methylphenol	0.38	< MDL
4-Nitroaniline	0.18	< MDL
4-Nitrophenol	3.3	< MDL
Acenaphthene	0.32	< MDL

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Chemical Waste Management, Inc.
Port Arthur Facility
SWAR Addendum / Analytical Report

Lab ID No: CCC-0002
Description: 1-2-V/S
Requestor: CWM - ENRAC
Generator: CEDAR CHEMICAL
Analysis Date: 07-Mar-92
Analyst: HAB
Reviewer:
Units: mg/kg (ppm)

SEMI-VOLATILES By SW846 Method 8270

ANALYTE	MDL	RESULT	
Acenaphthylene	0.23	< MDL	
Aniline	0.40	< MDL	
Anthracene	0.29	< MDL	
Azobenzene	0.23	< MDL	
Benzidine	6.4	< MDL	
Benzoic acid	6.3	< MDL	
Benzo(a)anthracene	0.35	< MDL	
Benzo(a)pyrene	0.22	< MDL	
Benzo(b)fluoranthene	0.29	< MDL	
Benzo(g,h,i)perylene	0.27	< MDL	
Benzo(k)fluoranthene	0.37	< MDL	
Benzyl alcohol	0.31	< MDL	
bis(2-Chloroethoxy)methane	0.30	< MDL	
bis(2-Chloroisopropyl)ether	1.2	< MDL	
bis(2-Cloroethyl)ether	0.22	< MDL	
bis(2-Ethylhexyl)phthalate	1.9	5.6	B
Butylbenzylphthalate	0.24	< MDL	
Chrysene	0.29	< MDL	
Dibenzofuran	0.22	< MDL	
Dibenz(a,h)anthracene	0.22	< MDL	
Diethylphthalate	0.062	< MDL	
Dimethylphthalate	0.028	< MDL	
Di-n-butylphthalate	0.22	< MDL	
Di-n-octylphthalate	0.24	< MDL	
Fluoranthene	0.27	< MDL	
Fluorene	1.2	< MDL	
Hexachlorobenzene	0.25	< MDL	
Hexachlorobutadiene	0.11	< MDL	
Hexachlorocyclopentadiene	5.2	< MDL	
Hexachloroethane	0.16	< MDL	

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Chemical Waste Management, Inc.
Port Arthur Facility
SWAR Addendum / Analytical Report

Lab ID No: CCC-0002
Description: 1-2-V/S
Requestor: CWM - ENRAC
Generator: CEDAR CHEMICAL
Analysis Date: 07-Mar-92
Analyst: HAB
Reviewer:
Units: mg/kg (ppm)

SEMI-VOLATILES By SW846 Method 8270

ANALYTE	MDL	RESULT
Indeno(1,2,3-cd)pyrene	0.24	< MDL
Naphthalene	0.23	< MDL
Nitrobenzene	0.29	< MDL
N-Nitrosodimethylamine	0.81	< MDL
N-Nitrosodiphenylamine	0.51	< MDL
N-Nitroso-di-n-propylamine	0.76	< MDL
Pentachlorophenol	4.1	< MDL
Phenanthrene	0.21	< MDL
Phenol	0.36	< MDL
Pyrene	0.33	< MDL
Pyridine	0.30	< MDL

NOTE: MDL = Method Detection Limit

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AB123

Lab Name: CHEMWASTE/PTA Contract: CEDAR CHEM.

Lab Code: HP001 Case No.: AD-76 SAS No.: 12345 SDG No.: 123456

Matrix: (soil/water) WATER Lab Sample ID: CCC-0002

Sample wt/vol: 1000 (g/mL) mL Lab File ID: >C0656

Level: (low/med) LOW Date Received: 03/04/92

% Moisture: not dec.---- dec. ---- Date Extracted: 03/04/92

GPC Cleanup: (Y/N) N pH: 7.2 Date Analyzed: 03/05/92

Final Extract Volume: 1 (uL) Dilution Factor: 1.00000

Injection Volume: 1 (uL) Conversion Factor: 1.0000

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.
1.			
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Chemical Waste Management, Inc.
Port Arthur Facility
SWAR Addendum / Analytical Report

Lab ID No: CCC-0003
Description: 1-4-V/S
Requestor: M. Greer
Generator: Cedar Chemical
Analysis Date: 04-Mar-92
Analyst: MLL
Reviewer: BMP
Units: µg/kg (ppb)

VOLATILES By SW846 Method 8240

ANALYTE	MDL	RESULT
1,1,1-Trichloroethane	5.6	< MDL
1,1,1,2-Tetrachloroethane	6.9	< MDL
1,1,2,2-Tetrachloroethane	15	< MDL
1,1,2-Trichloroethane	3.1	< MDL
1,1,2-Trichlorotrifluoroethane	4.5	< MDL
1,1-Dichloroethane	3.2	< MDL
1,1-Dichloroethene	3.6	< MDL
1,2-Dibromo-3-chloropropane	11	< MDL
1,2-Dibromomethane	5.0	< MDL
1,2-Dichloroethane	2.1	< MDL
1,2-Dichloropropane	1.3	< MDL
1,2,3-Trichloropropane	9.5	< MDL
2-Butanone	16	< MDL
2-Chloroethyl vinyl ether	2.0	< MDL
2-Hexanone	8.8	< MDL
4-Methyl-2-pentanone	16	< MDL
Acetone	6.0	230
Acetonitrile	9.4	< MDL
Acrolein	8.0	< MDL
Acrylonitrile	5.3	< MDL
Allyl Chloride	6.4	< MDL
Benzene	1.2	< MDL
Bromodichloromethane	3.1	< MDL
Bromoform	7.8	< MDL
Bromomethane	2.4	< MDL
Carbon disulfide	3.2	< MDL
Carbon tetrachloride	1.6	< MDL
Chlorobenzene	2.1	< MDL
Chloroethane	2.2	< MDL
Chloroform	2.1	< MDL

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Chemical Waste Management, Inc.
Port Arthur Facility
SWAR Addendum / Analytical Report

Lab ID No: CCC-0003
Description: 1-4-V/S
Requestor: M. Greer
Generator: Cedar Chemical
Analysis Date: 04-Mar-92
Analyst: MLL
Reviewer: BMP
Units: µg/kg (ppb)

VOLATILES By SW846 Method 8240

ANALYTE	MDL	RESULT
Chloromethane	1.9	< MDL
Chloroprene	3.9	< MDL
cis-1,3-dichloropropene	2.7	< MDL
Dibromochloromethane	3.4	< MDL
Dibromomethane	3.8	< MDL
Ethanol	3.8	< MDL
Ethyl acetate	8.3	< MDL
Ethyl ether	7.1	< MDL
Ethyl methacrylate	4.1	< MDL
Ethylbenzene	5.9	9.0
Iodomethane	6.1	< MDL
Isobutyl alcohol	20	< MDL
Methylacrylonitrile	11	< MDL
Methyl methacrylate	11	< MDL
Methylene chloride	3.9	72
Propionitrile	21	< MDL
Styrene	3.2	< MDL
Tetrachloroethene	2.6	< MDL
Toluene	1.1	17
trans-1,2-dichloroethene	2.5	< MDL
trans-1,3-dichloropropene	1.8	< MDL
Trichloroethane	1.2	< MDL
Trichlorofluoromethane	5.5	< MDL
Vinyl Chloride	1.9	< MDL
Xylenes	11	130

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

AB123

Lab Name: New CLP Forms Contract: CCC-0003

Lab Code: HP001 Case No.: AD-76 SAS No.: 12345 SDG No.: 123456

Matrix: (soil/water) SOIL Lab Sample ID: CCC-0003

Sample wt/vol: 1000 (g/mL) mL Lab File ID: >B3142

Level: (low/med) LOW Date Received: 03/04/92

% Moisture: not dec.---- dec. ---- Date Extracted: 03/04/92

Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 3/04/92

GPC Cleanup: (Y/N) N pH: 7.2 Dilution Factor: 1.00000

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 108872	Methylcyclohexane	13.45	31.0	
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Chemical Waste Management, Inc.
Port Arthur Facility
SWAR Addendum / Analytical Report

Lab ID No: CCC-0003
Description: 1-4-V/S
Requestor: CWM - ENRAC
Generator: CEDAR CHEMICAL
Analysis Date: 07-Mar-92
Analyst: HAB
Reviewer: m
Units: mg/kg (ppm)

SEMI-VOLATILES By SW846 Method 8270

ANALYTE	MDL	RESULT
1,2,4,5-Tetrachlorobenzene	0.45	< MDL
1,2,4-Trichlorobenzene	0.33	< MDL
1,2-Dichlorobenzene	0.23	0.57
1,3-Dichlorobenzene	0.23	< MDL
1,4-Dichlorobenzene	0.18	< MDL
2,4,5-Trichlorophenol	0.37	< MDL
2,4,6-Trichlorophenol	0.60	< MDL
2,4-Dichlorophenol	0.39	< MDL
2,4-Dimethylphenol	0.64	< MDL
2,4-Dinitrophenol	1.2	< MDL
2,4-Dinitrotoluene	0.27	< MDL
2,6-Dinitrotoluene	0.25	< MDL
2-Chloronaphthalene	0.20	< MDL
2-Chlorophenol	0.36	< MDL
2-Methylnaphthalene	0.35	< MDL
2-Methylphenol	1.6	< MDL
2-Nitroaniline	0.22	< MDL
2-Nitrophenol	0.39	< MDL
2-sec-Butyl-4,6-dinitrophenol	0.82	1.2
3,3'-Dichlorobenzidine	0.75	< MDL
3+4-Methylphenol	0.60	< MDL
3-Nitroaniline	0.28	< MDL
4,6-Dinitro-2-methylphenol	0.39	< MDL
4-Bromophenyl-phenylether	0.23	< MDL
4-Chloroaniline	0.39	< MDL
4-Chlorophenyl-phenylether	0.20	< MDL
4-Chloro-3-methylphenol	0.38	< MDL
4-Nitroaniline	0.18	< MDL
4-Nitrophenol	3.3	< MDL
Acenaphthene	0.32	< MDL

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Chemical Waste Management, Inc.
Port Arthur Facility
SWAR Addendum / Analytical Report

Lab ID No: CCC-0003
Description: 1-4-V/S
Requestor: CWM - ENRAC
Generator: CEDAR CHEMICAL
Analysis Date: 07-Mar-92
Analyst: HAB
Reviewer:
Units: mg/kg (ppm)

SEMI-VOLATILES By SW846 Method 8270

ANALYTE	MDL	RESULT	
Acenaphthylene	0.23	< MDL	
Aniline	0.40	< MDL	
Anthracene	0.29	< MDL	
Azobenzene	0.23	< MDL	
Benzidine	6.4	< MDL	
Benzoic acid	6.3	< MDL	
Benzo(a)anthracene	0.35	< MDL	
Benzo(a)pyrene	0.22	< MDL	
Benzo(b)fluoranthene	0.29	< MDL	
Benzo(g,h,i)perylene	0.27	< MDL	
Benzo(k)fluoranthene	0.37	< MDL	
Benzyl alcohol	0.31	< MDL	
bis(2-Chloroethoxy)methane	0.30	< MDL	
bis(2-Chloroisopropyl)ether	1.2	< MDL	
bis(2-Cloroethyl)ether	0.22	< MDL	
bis(2-Ethylhexyl)phthalate	1.9	9.0	B
Butylbenzylphthalate	0.24	< MDL	
Chrysene	0.29	< MDL	
Dibenzofuran	0.22	< MDL	
Dibenz(a,h)anthracene	0.22	< MDL	
Diethylphthalate	0.062	< MDL	
Dimethylphthalate	0.028	< MDL	
Di-n-butylphthalate	0.22	3.8	B
Di-n-octylphthalate	0.24	< MDL	
Fluoranthene	0.27	< MDL	
Fluorene	1.2	< MDL	
Hexachlorobenzene	0.25	< MDL	
Hexachlorobutadiene	0.11	< MDL	
Hexachlorocyclopentadiene	5.2	< MDL	
Hexachloroethane	0.16	< MDL	

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Chemical Waste Management, Inc.
Port Arthur Facility
SWAR Addendum / Analytical Report

Lab ID No: CCC-0003
Description: 1-4-V/S
Requestor: CWM - ENRAC
Generator: CEDAR CHEMICAL
Analysis Date: 07-Mar-92
Analyst: HAB
Reviewer:
Units: mg/kg (ppm)

SEMI-VOLATILES By SW846 Method 8270

ANALYTE	MDL	RESULT
Indeno(1,2,3-cd)pyrene	0.24	< MDL
Naphthalene	0.23	< MDL
Nitrobenzene	0.29	< MDL
N-Nitrosodimethylamine	0.81	< MDL
N-Nitrosodiphenylamine	0.51	< MDL
N-Nitroso-di-n-propylamine	0.76	< MDL
Pentachlorophenol	4.1	< MDL
Phenanthrene	0.21	< MDL
Phenol	0.36	< MDL
Pyrene	0.33	< MDL
Pyridine	0.30	< MDL

NOTE: MDL = Method Detection Limit

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

AB123

Lab Name:CHEMWASTE/PTA Contract:CEDAR CHEM.

Lab Code: HP001 Case No.: AD-76 SAS No.: 12345 SDG No.: 123456

Matrix: (soil/water) SOIL Lab Sample ID: CCC-0003

Sample wt/vol: 1000 (g/mL) mL Lab File ID: >C0657

Level: (low/med) LOW Date Received: 03/04/92

% Moisture: not dec.---- dec. ---- Date Extracted:03/04/92

GPC Cleanup: (Y/N) N pH:7.2 Date Analyzed: 03/05/92

Final Extract Volume:1 (uL) Dilution Factor: 1.00000

Injection Volume: 1 (uL) Conversion Factor: 1.0000

Number TICs found:__1__

CONCENTRATION UNITS:
(ug/L or ug/Kg) mg/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.
1.		Dioctylester Hexanedioic acid	20.60	11.0
2.				
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Chemical Waste Management, Inc.
Port Arthur Facility
SWAR Addendum / Analytical Report

Lab ID No: CCC-0004
Description: 1-10-V/S
Requestor: M. Greer
Generator: Cedar Chemical
Analysis Date: 04-Mar-92
Analyst: MLL
Reviewer:
Units: µg/kg (ppb)

VOLATILES By SW846 Method 8240

CORRECTED COPY

ANALYTE	MDL	RESULT
1,1,1-Trichloroethane	5.6	< MDL
1,1,1,2-Tetrachloroethane	6.9	< MDL
1,1,2,2-Tetrachloroethane	15	< MDL
1,1,2-Trichloroethane	3.1	< MDL
1,1,2-Trichlorotrifluoroethane	4.5	< MDL
1,1-Dichloroethane	3.2	< MDL
1,1-Dichloroethene	3.6	< MDL
1,2-Dibromo-3-chloropropane	11	< MDL
1,2-Dibromomethane	5.0	< MDL
1,2-Dichloroethane	2.1	< MDL
1,2-Dichloropropane	1.3	< MDL
1,2,3-Trichloropropane	9.5	< MDL
2-Butanone	16	< MDL
2-Chloroethyl vinyl ether	2.0	< MDL
2-Hexanone	8.8	< MDL
4-Methyl-2-pentanone	16	< MDL
Acetone	6.0	180,000
Acetonitrile	9.4	< MDL
Acrolein	8.0	< MDL
Acrylonitrile	5.3	< MDL
Allyl Chloride	6.4	< MDL
Benzene	1.2	< MDL
Bromodichloromethane	3.1	< MDL
Bromoform	7.8	< MDL
Bromomethane	2.4	< MDL
Carbon disulfide	3.2	< MDL
Carbon tetrachloride	1.6	< MDL
Chlorobenzene	2.1	< MDL
Chloroethane	2.2	< MDL
Chloroform	2.1	< MDL

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Chemical Waste Management, Inc.
Port Arthur Facility
SWAR Addendum / Analytical Report

Lab ID No: CCC-0004
Description: 1-10-V/S
Requestor: M. Greer
Generator: Cedar Chemical
Analysis Date: 04-Mar-92
Analyst: MLL
Reviewer:
Units: µg/kg (ppb)

VOLATILES By SW846 Method 8240

CORRECTED COPY

ANALYTE	MDL	RESULT
Chloromethane	1.9	< MDL
Chloroprene	3.9	< MDL
cis-1,3-dichloropropene	2.7	< MDL
Dibromochloromethane	3.4	< MDL
Dibromomethane	3.8	< MDL
Ethanol	3.8	< MDL
Ethyl acetate	8.3	< MDL
Ethyl ether	7.1	< MDL
Ethyl methacrylate	4.1	< MDL
Ethylbenzene	5.9	94,000
Iodomethane	6.1	< MDL
Isobutyl alcohol	20	< MDL
Methylacrylonitrile	11	< MDL
Methyl methacrylate	11	< MDL
Methylene chloride	3.9	46,000
Propionitrile	21	< MDL
Styrene	3.2	< MDL
Tetrachloroethene	2.6	< MDL
Toluene	1.1	< MDL
trans-1,2-dichloroethene	2.5	< MDL
trans-1,3-dichloropropene	1.8	< MDL
Trichloroethane	1.2	< MDL
Trichlorofluoromethane	5.5	< MDL
Vinyl Chloride	1.9	< MDL
Xylenes	11	390,000

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LF

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

AB123

Lab Name: New CLP Forms Contract: CCC-0004

Lab Code: HP001 Case No.: AD-76 SAS No.: 12345 SDG No.: 123456

Matrix: (soil/water) SOIL Lab Sample ID: CCC-0004

Sample wt/vol: 1000 (g/mL) mL Lab File ID: >B3157

Level: (low/med) LOW Date Received: 03/04/92

% Moisture: not dec.---- dec. ---- Date Extracted: 03/04/92

Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 3/04/92,3/05

GPC Cleanup: (Y/N) N pH: 7.2 Dilution Factor: 1.00000

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 141797	Methylpentenone	16.69	74,000.0	
2.	METHYL-OCTENE	17.09	24,000.0	
3. 611143	Ethylmethylbenzene	20.00	22,000.0	
4.				
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Chemical Waste Management, Inc.
Port Arthur Facility
SWAR Addendum / Analytical Report

Lab ID No: CCC-0004
Description: 1-10-V/S
Requestor: CWM - ENRAC
Generator: CEDAR CHEMICAL
Analysis Date: 07-Mar-92
Analyst: HAB
Reviewer: [illegible]
Units: mg/kg (ppm)

SEMI-VOLATILES By SW846 Method 8270

ANALYTE	MDL	RESULT
1,2,4,5-Tetrachlorobenzene	0.45	< MDL
1,2,4-Trichlorobenzene	0.33	< MDL
1,2-Dichlorobenzene	0.23	1.8
1,3-Dichlorobenzene	0.23	< MDL
1,4-Dichlorobenzene	0.18	< MDL
2,4,5-Trichlorophenol	0.37	< MDL
2,4,6-Trichlorophenol	0.60	< MDL
2,4-Dichlorophenol	0.39	< MDL
2,4-Dimethylphenol	0.64	< MDL
2,4-Dinitrophenol	1.2	< MDL
2,4-Dinitrotoluene	0.27	< MDL
2,6-Dinitrotoluene	0.25	< MDL
2-Chloronaphthalene	0.20	< MDL
2-Chlorophenol	0.36	< MDL
2-Methylnaphthalene	0.35	3.5
2-Methylphenol	1.6	< MDL
2-Nitroaniline	0.22	< MDL
2-Nitrophenol	0.39	< MDL
2-sec-Butyl-4,6-dinitrophenol	0.82	3600
3,3'-Dichlorobenzidine	0.75	< MDL
3+4-Methylphenol	0.60	< MDL
3-Nitroaniline	0.28	< MDL
4,6-Dinitro-2-methylphenol	0.39	< MDL
4-Bromophenyl-phenylether	0.23	< MDL
4-Chloroaniline	0.39	< MDL
4-Chlorophenyl-phenylether	0.20	< MDL
4-Chloro-3-methylphenol	0.38	< MDL
4-Nitroaniline	0.18	< MDL
4-Nitrophenol	3.3	22
Acenaphthene	0.32	< MDL

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Chemical Waste Management, Inc.
Port Arthur Facility
SWAR Addendum / Analytical Report

Lab ID No: CCC-0004
Description: 1-10-V/S
Requestor: CWM - ENRAC
Generator: CEDAR CHEMICAL
Analysis Date: 07-Mar-92
Analyst: HAB
Reviewer:
Units: mg/kg (ppm)

SEMI-VOLATILES By SW846 Method 8270

ANALYTE	MDL	RESULT	
Acenaphthylene	0.23	< MDL	
Aniline	0.40	< MDL	
Anthracene	0.29	< MDL	
Azobenzene	0.23	< MDL	
Benzidine	6.4	< MDL	
Benzoic acid	6.3	< MDL	
Benzo(a)anthracene	0.35	< MDL	
Benzo(a)pyrene	0.22	< MDL	
Benzo(b)fluoranthene	0.29	< MDL	
Benzo(g,h,i)perylene	0.27	< MDL	
Benzo(k)fluoranthene	0.37	< MDL	
Benzyl alcohol	0.31	< MDL	
bis(2-Chloroethoxy)methane	0.30	< MDL	
bis(2-Chloroisopropyl)ether	1.2	< MDL	
bis(2-Cloroethyl)ether	0.22	< MDL	
bis(2-Ethylhexyl)phthalate	1.9	13	B
Butylbenzylphthalate	0.24	< MDL	
Chrysene	0.29	< MDL	
Dibenzofuran	0.22	< MDL	
Dibenz(a,h)anthracene	0.22	< MDL	
Diethylphthalate	0.062	< MDL	
Dimethylphthalate	0.028	< MDL	
Di-n-butylphthalate	0.22	9.1	B
Di-n-octylphthalate	0.24	< MDL	
Fluoranthene	0.27	< MDL	
Fluorene	1.2	< MDL	
Hexachlorobenzene	0.25	< MDL	
Hexachlorobutadiene	0.11	< MDL	
Hexachlorocyclopentadiene	5.2	< MDL	
Hexachloroethane	0.16	< MDL	

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Chemical Waste Management, Inc.
Port Arthur Facility
SWAR Addendum / Analytical Report

Lab ID No: CCC-0004
Description: 1-10-V/S
Requestor: CWM - ENRAC
Generator: CEDAR CHEMICAL
Analysis Date: 07-Mar-92
Analyst: HAB
Reviewer:
Units: mg/kg (ppm)

SEMI-VOLATILES By SW846 Method 8270

ANALYTE	MDL	RESULT
Indeno(1,2,3-cd)pyrene	0.24	< MDL
Naphthalene	0.23	3.5
Nitrobenzene	0.29	< MDL
N-Nitrosodimethylamine	0.81	< MDL
N-Nitrosodiphenylamine	0.51	< MDL
N-Nitroso-di-n-propylamine	0.76	< MDL
Pentachlorophenol	4.1	< MDL
Phenanthrene	0.21	< MDL
Phenol	0.36	< MDL
Pyrene	0.33	< MDL
Pyridine	0.30	< MDL

NOTE: MDL = Method Detection Limit

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AB123

Lab Name: CHEMWASTE/PTA Contract: CEDAR CHEM.

Lab Code: HP001 Case No.: AD-76 SAS No.: 12345 SDG No.: 123456

Matrix: (soil/water) SOIL Lab Sample ID: CCC-0004

Sample wt/vol: 1000 (g/mL) mL Lab File ID: >A5561

Level: (low/med) LOW Date Received: 03/04/92

% Moisture: not dec.---- dec. ---- Date Extracted: 03/04/92

GPC Cleanup: (Y/N) N pH: 7.2 Date Analyzed: 03/06/92

Final Extract Volume: 1 (uL) Dilution Factor: 1.00000

Injection Volume: 1 (uL) Conversion Factor: 1.0000

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/Kg) mg/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.
1.	Dimethylbenzene	4.64	150.0
2.	Nonane	4 93	230.0
3.	Hydroxy-Napthyridine	11.56	180.0
4.	Dichlorobenzenamine	13.51	310.0
5.	Unidentified Hydrocarbon	15.02	1000.0
6.	Unidentified Hydrocarbon	21.52	320.0
7.	Unidentified Hydrocarbon	22.09	160.0
8.	Unidentified Hydrocarbon	26.07	360.0
9.	Unidentified Hydrocarbon	27.07	180.0
10.	Unidentified Hydrocarbon	27.29	140.0
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Chemical Waste Management, Inc.
Port Arthur Facility
SWAR Addendum / Analytical Report

Lab ID No: CCC-0005
Description: 1-1-V/S
Requestor: M. Greer
Generator: Cedar Chemical
Analysis Date: 04-Mar-92
Analyst: MLL
Reviewer: BMP
Units: µg/kg (ppb)

VOLATILES By SW846 Method 8240

ANALYTE	MDL	RESULT
1,1,1-Trichloroethane	5.6	< MDL
1,1,1,2-Tetrachloroethane	6.9	< MDL
1,1,2,2-Tetrachloroethane	15	< MDL
1,1,2-Trichloroethane	3.1	< MDL
1,1,2-Trichlorotrifluoroethane	4.5	< MDL
1,1-Dichloroethane	3.2	< MDL
1,1-Dichloroethene	3.6	< MDL
1,2-Dibromo-3-chloropropane	11	< MDL
1,2-Dibromomethane	5.0	< MDL
1,2-Dichloroethane	2.1	< MDL
1,2-Dichloropropane	1.3	< MDL
1,2,3-Trichloropropane	9.5	< MDL
2-Butanone	16	< MDL
2-Chloroethyl vinyl ether	2.0	< MDL
2-Hexanone	8.8	< MDL
4-Methyl-2-pentanone	16	< MDL
Acetone	6.0	210
Acetonitrile	9.4	< MDL
Acrolein	8.0	< MDL
Acrylonitrile	5.3	< MDL
Allyl Chloride	6.4	< MDL
Benzene	1.2	< MDL
Bromodichloromethane	3.1	< MDL
Bromoform	7.8	< MDL
Bromomethane	2.4	< MDL
Carbon disulfide	3.2	< MDL
Carbon tetrachloride	1.6	< MDL
Chlorobenzene	2.1	< MDL
Chloroethane	2.2	< MDL
Chloroform	2.1	< MDL

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APPENDIX B

Results of Laboratory Analyses

Preliminary Assessment of Overburden

Pit No. 2

Chemical Waste Management, Inc.

P.O. Box 2563
Port Arthur, Texas 77643-2563
409/736-2821

VOA/SVOA Sample Narrative

Enclosed are the results of the analysis of eight samples, 1-1-v/s, 1-2-v/s, 1-4-v/s, 1-10-v/s, 2-1-v/s, 2-2-v/s, 2-3-v/s, and 2-10-v/s submitted on March 4, 1992.

Representative portions of these samples were analyzed by EPA SW846 Method 8240 and were extracted in accordance with EPA SW846 Method 3520, and then analyzed in accordance with EPA SW846 Method 8270 using a Hewlett-Packard 5890 series II Gas Chromatograph/Mass Spectrometer (GC/MS) for a calibrated list of target compounds and for each uncalibrated tentatively identified compound (TIC). An instrument performance check (IPC), quality control check (QC), and method blank were analyzed with this sample in accordance with the quality assurance program (QAP).

The EPA definition of a tentatively identified compound is a compound not associated with the calibration standards established upon the mass spectrometer which analyzed the sample in question. The mass spectrum from the sample is compared with the National Bureau of Standards Mass Spectra Library and must meet the following criteria:relative intensities of all ions in the reference spectrum must be present, the relative intensities of these ions should agree within 20%, molecular ions present in the reference spectrum should be present in the sample spectrum, ions present in the sample spectrum but not in the reference spectrum should be reviewed for possible background contamination or the presence of coeluting compounds, and ions present in the reference spectrum but not in the sample spectrum should be reviewed for possible subtraction since data reduction programs can sometimes create this discrepancy. This data will then be evaluated by an analyst trained in the interpretation of mass spectra to tentatively identify the compound. Since the second criteria for positive identification (GC retention time) is not available this is only a tentative identification.

Quantitation of tentatively identified compounds is performed by relating the area of the primary ion of the TIC to the nearest internal standard. The response of the TIC is **assumed** to be one relative to that internal standard. (Note that none of the compounds we are calibrated for has a response factor of one.)

The results of the analysis of the sample, Port Arthur numbers CCC-0001 through CCC-008, (1-1-v/s, 1-2-v/s, 1-4-v/s, 1-10-v/s, 2-1-v/s, 2-2-v/s, 2-3-v/s, 2-10-v/s) are contained within the data package.

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I certify that this sample data package is complete and in compliance with the contracted agreement. Release of this data has been authorized by the laboratory manager and is verified by the following signature.

John C. Terry
Special Projects Manager
Southern Region

Printed on recycled pa

APR 30 1992

REPORT OF REMEDIAL ACTION ACTIVITIES
PHASE II REMOVAL OF
ADDITIONAL BURIED DRUMS AND CONTAMINATED SOIL
CEDAR CHEMICAL CORPORATION PLANT
WEST HELENA, ARKANSAS

Submitted to

Cedar Chemical Corporation
West Helena, Arkansas

Prepared by

Mitchell W. Greer, P.E.
Chemical Waste Management, Inc.
Houston, Texas

April 24, 1992

Certification requires P.E Reg. in Ark

CERTIFICATION

Cedar Chemical Corporation has undertaken the tasks to complete the remedial action required in Consent Administrative Order LIS 91-118, dated July 9, 1991, between Cedar Chemical Corporation and the Arkansas Department of Pollution Control and Ecology. The remedial work was conducted in accordance with the Removal Action Work Plan, prepared by Woodward-Clyde Consultants and dated June, 1991, as referenced by the CAO. In accordance with paragraph 10.b of the CAO, this report describes those activities undertaken by Cedar Chemical Corporation to implement the Removal Action Work Plan.

Having been familiar with the work performed and upon review of the written and photographic documentation of the work as referenced or contained in this report, I believe this report to accurately represent the work performed and that the work complies with the substantive requirements of the CAO as detailed in the Removal Action Work Plan.

Certified This Date 24 April, 1992

Signature Mitchell W. Greer

Mitchell W. Greer, P.E.
Registered Professional Engineer
State of Texas
Registration No. 60979

REPORT OF REMEDIAL ACTION ACTIVITIES
PHASE II REMOVAL OF
ADDITIONAL BURIED DRUMS AND CONTAMINATED SOIL
CEDAR CHEMICAL CORPORATION PLANT
WEST HELENA, ARKANSAS

INTRODUCTION

Cedar Chemical Corporation (Cedar) has concluded remediation of old drum burial pits on its plant location in West Helena, Arkansas in accordance with Consent Administrative Order No. LIS 91-118, dated July 9, 1991, between Cedar and the Arkansas Department of Pollution Control and Ecology (ADPC&E). Buried drums and their contents, along with contaminated soil in their vicinity were removed from the pits in general accordance with procedures outlined in the previously approved Woodward-Clyde Removal Action Work Plan, dated June 1990.

In the fall of 1991, the first of eventually three burial pits was remediated for which a report, dated January 15, 1992, was submitted to ADPC&E describing the remedial activities. During March and April of 1992, the latter two burial pits were remediated. For clarification to the reader of this report, the following explanations regarding the names given each of the two latter burial pits is provided. The second pit remediated at Cedar's facility is the "northwest" location and is referred to in this report as Pit No. 1. The third pit remediated at Cedar's facility is the "north central" location and is referred to in this report as Pit No. 2.

This report has been prepared by Cedar in accordance with paragraph 10.b of the CAO to describe the activities undertaken to implement the Removal Action Work Plan. Certification of this report, confirming that the remediation was conducted in accordance with the Removal Action Work Plan is provided by a registered professional engineer, familiar with the work.

According to report in Cedar File, fill was put over area to help reduce toxic storm water runoff from area

composite samples do not indicate if a particular site is clean

It is not logical to choose soils from the top of to determine what constituents were in the drum?

DESCRIPTION OF REMEDIAL ACTIVITIES

Preliminary Assessment

A location determination and preliminary assessment of the two additional drum burial pits was conducted prior to their remediation. Figure 1 shows a general site map of the Cedar plant and the vicinity of the two additional pits. Cedar confirmed the two additional burial pits by conducting an electrical conductivity survey of suspected areas south of the main plant area. The survey was conducted by Groundwater Services, Inc. (GSI), of Houston, Texas, and the results of their survey are shown graphically on Figure 2. The survey revealed two anomalies, one on either side of the main storm water conveyance ditch that runs southward from the plant. The westernmost of the two new pits (the northwest location) is Pit No. 1 and the easternmost (the north central) pit is Pit No. 2.

Soil borings were conducted by GSI over each anomalous area to assess the presence of wastes and for evaluation of the overburden soil. Several feet of the overburden was determined to be fill material, and the borings' depths were limited by the presence of a gravel layer below the fill. Apparently, the fill was used to raise the ground elevation over the location of the two burial pits some time after the pits had been covered. At the direction of Cedar, one exploratory test pit was dug near the center of each anomaly to verify the presence of drums and to obtain soil samples for chemical analyses.

Composite samples of the soil were synthesized from samples obtained from common depths at each of the pit locations to evaluate the overburden. In addition, a sample was obtained from the soil at the top of the buried waste from each pit to assess the major contaminants. The samples were analyzed by CWM's Southern Region Laboratory by SW-846 Methods 8240 and 8270. The laboratory results are presented in Appendices A and B, respectively for Pit No. 1 and Pit No. 2. The analytical results were used to identify the potential RCRA waste codes and to determine if any of the overburden soil could be salvaged as uncontaminated and subsequently used as backfill.

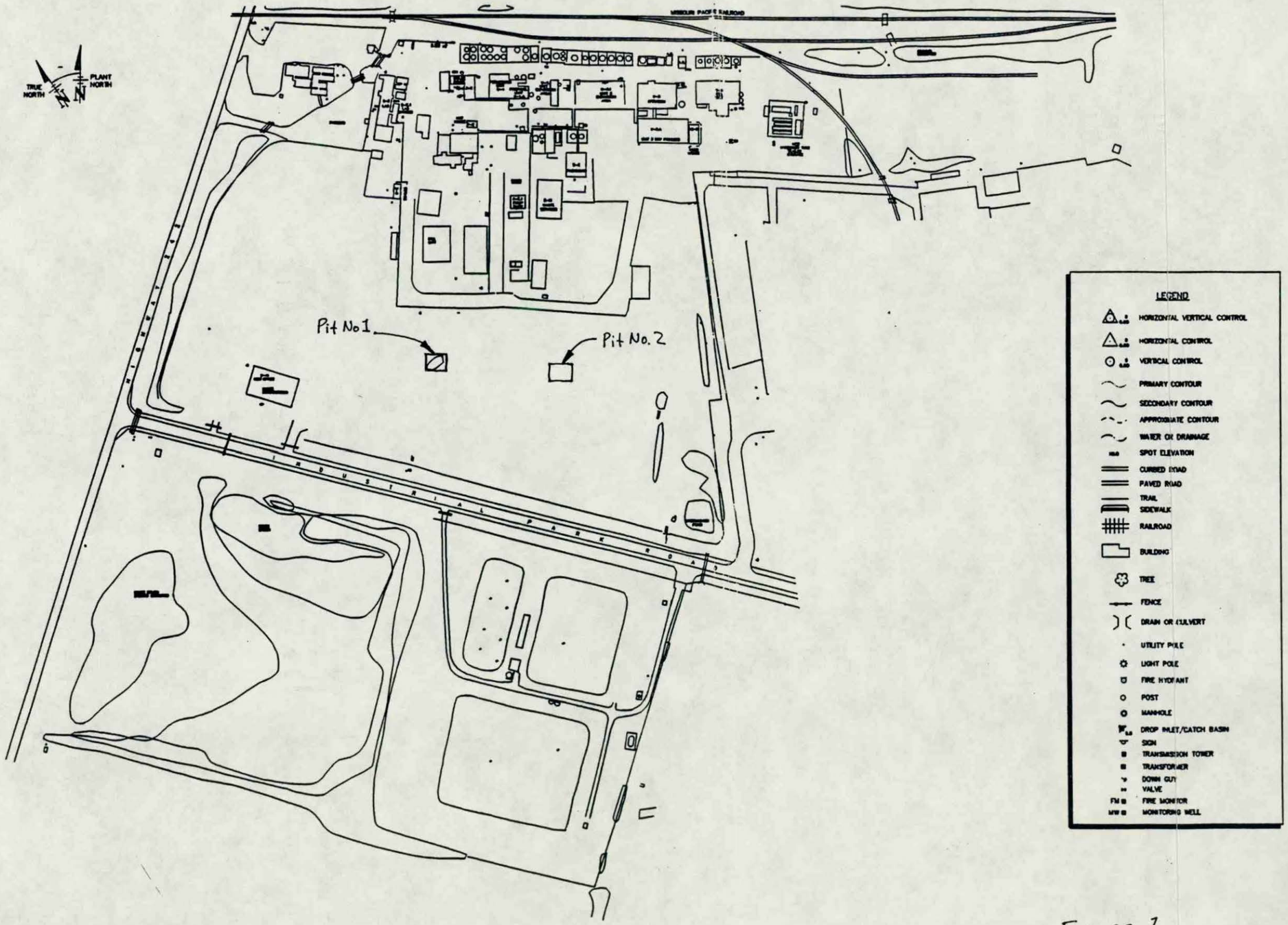


FIGURE 1

REV.	BY	DATE	APP.	DESCRIPTION
A	BJE	8/24/90	GFM	INITIAL ISSUE

DELTA PROCESS MANAGEMENT, Inc.
Memphis, TN

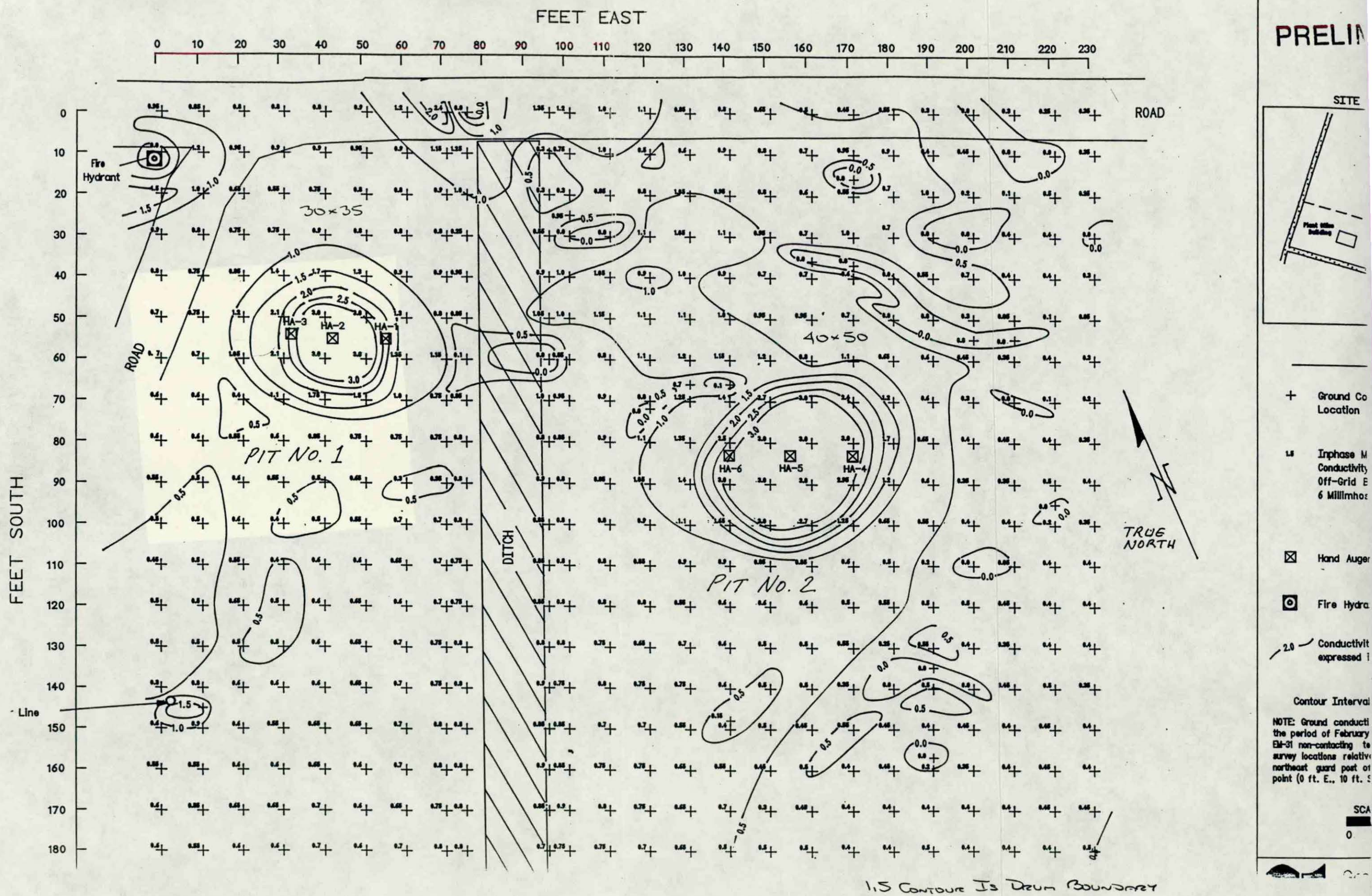
CEDAR
P.O. BOX 2740
HWY. 242 S.
WEST HELENA, AR 72390

LOCATION: WEST HELENA, AR

WEST HELENA PLANT
TOPOGRAPHIC SITE PLAN

DRAWING	DATE	APPRVD.	DATE
DESIGN	8/24/90	GFM	8/24/90
DRAWN	8/24/90	BJE	8/24/90
CHECKED	8/24/90	GFM	8/24/90

SCALE	DRAWING NO.	SHT. 1 OF 1
1"=100'	D211L01	REV. NO. A



1.5 Contour Is Drum Boundary

Small Values (0.0) Could Be Shallow Metal Objects

FIGURE 2

P020 - Dinoseb
U070 - 1,2 Dichloro Benzene
U170 - p-Nitrophenol
U220 - Toluene
U239 - Xylene
U247 Methoxychlor
D014

The analytical results revealed non-detectable levels of contamination in the upper two feet of Pit No. 1 with detectable levels associated with Dinoseb and other compounds below two feet. Pit No. 2 revealed detectable levels, generally increasing with depth from the ground surface downward. All of the compounds detected were associated with the formulation of dinoseb or other products recorded as being made or used at the plant.

RCRA hazardous waste codes P020, U070, U170, U220, U239 and U247 were identified on the generator's waste profile sheet. Contaminated soils and debris with these waste codes were all subject to a variance to the land disposal restrictions until May 8, 1992 and thus could be landfilled without prior treatment. This waste stream was updated on the profile used previously for the first of the three burial pits and approved for disposal at Chemical Waste Management's hazardous landfill in Carlyss, Louisiana.

Mobilization and Site Preparation

Cedar contracted Chemical Waste Management, Inc., through its Environmental Remedial Action Division (CWM-ENRAC), to execute the construction tasks necessary to implement the Removal Action Work Plan for the latter two burial pits. CWM-ENRAC prepared and operated under a written health and safety/environmental management plan, and all its personnel were trained for hazardous site operations per OSHA regulations (29 CFR 1910.120). CWM-ENRAC mobilized a crew of five, including a project manager, equipment operator and three technicians to conduct the drum and contaminated soil removal. A track-mounted hydraulic excavator (trackhoe) was also mobilized by CWM-ENRAC to perform the necessary excavation. Cedar provided a forklift for drum and pallet handling.

(wheel and axle mounted hydraulic drum lifter with internal combustion butane engine

On-site remedial activities began on March 12, 1992. Initial activities included construction of a new gravel access road from Cedar's administration to the plant area. This was done to provide more clearance for an exclusion zone around the first pit to be remediated. The approximate location of the old burial pit was delineated based on the results of a electrical conductivity survey that had previously been conducted by GSI. The storm water

conveyance ditch located between the two pit areas was temporarily rerouted to provide more clearance to the east of Pit No. 1.

An exclusion zone was established within the unit area of contamination in which to proceed with the remedial construction. The exclusion zone established for Pit No. 1 was surrounded by a surface water run-on/run-off control berm approximately one-foot high. The berm was constructed by grading, from the inside outward, some of the shallow overburden soil. At Pit No. 2, s similar berm was constructed by grading soil inward from the topsoil outside the lateral limits of the burial pit's exclusion zone.

A contaminant reduction zone or corridor was established outside and around the exclusion zone at each pit location to control access by plant and other personnel not outfitted with appropriate personal protective equipment. Within the contaminant reduction zone, a sampling handling station and personnel decontamination station were set up. At a minimum Level C PPE, including Saranex-coated coveralls and half-face respirators were used inside the exclusion zone until the level of air emissions could be established.

Still photographs of selected portions of the removal operations were taken by Cedar and CWM-ENRAC personnel. Cedar also took live video footage of portions of the site operations. Both photographs and the video footage are available upon request from Cedar.

Waste Removal and Handling

Pit No. 1 was remediated first in its entirety before preparing the area for Pit No. 2. However, both sites were remediated in a very similar fashion, so the following description of waste removal and handling is accurate for both burial pits. Removal activity continued from March 13 through March 23 at Pit No. 1 and from March 24 to March 30 at Pit No. 2.

Initially, the overburden soil was removed from directly above the delineated area of the buried pits as defined by the electrical conductivity survey. The overburden soil had been determined from the test pits to be about 7 to 10 feet deep before drums would be encountered. The overburden soil was loaded directly into end-dump trailers and transported for disposal to a hazardous landfill as described in a subsequent section of this report.

As the waste was encountered, the excavation pace slowed down to accommodate careful removal of any drum containers which might still hold wastes in them. The condition of the drums varied, but most of them were damaged when found and further damaged as they were exhumed. Most of the drum carcasses encountered were already crushed, dilapidated and empty. Only a few drums were found leaking as evidenced by contamination in the surrounding soil detected by portable vapor analyzers. Because of their condition and to minimize release of the contents, each drum containing waste materials was transferred as quickly as possible into an over-pack container before it was lifted out of the pit by the trackhoe.

As stated before, most of the old buried drums and other containers were found to be crushed, rusting, and completely empty. As such, these empty drum carcasses were considered to be debris rather than waste containers. Accordingly, these empty carcasses became part of the soil and debris, designated and profiled for disposal at the landfill. The empty drum carcasses were excavated along with the surrounding contaminated soil and loaded directly into trailers for disposal.

The drum removal activity continued deeper until the bottom of the burial pit could be found. As the excavation got deeper, the breadth and length of it also increased. Beyond the lateral extent of the buried containers, the side slopes of the burial pits were cut back to provide a safe excavation. The excavation continued until all drums and containers were removed. The soil at the bottom of the excavation was removed until all contamination was gone as discernable with an organic vapor analyzer. Afterwards, confirmation samples were taken to verify that the clean-up criteria had been achieved.

then the wheels and undercarriage were decontaminated at the truck wash before the truck left the facility. A listing of manifests for the State of Louisiana, showing the certified measured weights of the waste disposed for each, is provided in Appendix C. Copies of the returned manifests were returned to Cedar are available from them for review.

Confirmation Sampling

Preliminary confirmation sampling was conducted on the soil from the bottom of the excavation concurrently with the removal work to determine if additional contaminated soil above the target cleanup standard needed to be removed. The analyses were conducted by Cedar's in-plant laboratory. At both pits, the preliminary results indicated that Dinoseb concentrations were less than the health-based cleanup standard of 80 ppm in the Removal Action Work Plan, and in most cases, were undetectable. Accordingly, ADPC&E was notified, so that they could be present during the formal confirmation sampling.

Soil samples were taken with the assistance of CWM-ENRAC in accordance with paragraphs 6.1 and 6.2 of the Work Plan for official verification that the residual level of Dinoseb contamination was below the 80 ppm standard. At three discrete locations from each pit samples were taken from the bottom of the excavation, two approximately 10 feet from the ends and one from the middle of the hole Each sample was obtained using a stainless steel trowel. A composite of the three samples was also synthesized in the field.
The verification analyses were conducted by CWM's Southern Region Laboratory in Port Arthur, Texas. Each of the discrete samples was analyzed for semi-volatile compounds using SW-846 Method 8270, and the composite was analyzed for volatile organic compounds using Method 8240. The results of the confirmation analyses is presented in Appendices D and E, respectively, for Pit No. 1 and Pit No. 2. These results confirm that all residual levels of Dinoseb contamination in the soil were below detection limits for the analyses and below the cleanup standard.

Following confirmation sampling, it was determined by Cedar that the soil used to build the run-on/run-off control berms was likely contaminated also due to the general Dinoseb contamination at the site. Therefore, all the berm soil was also loaded for disposal by landfilling.

The final size of the excavation for Pit No. 1 was approximately 36 ft wide (north to south) by 35 ft long by 21 ft deep. A total of seven drums containing waste materials were removed from the burial pit along with approximately another 85 empty drum carcasses. Based on manifested weights, 1345 tons of soil and debris was disposed of at the hazardous landfill from Pit No. 1.

The final size of the excavation for Pit No. 2 was approximately 36 ft wide (north to south) by 47 ft long by 17 ft deep. A total of 14 drums containing waste materials were removed from the burial pit along with approximately another 175 empty drum carcasses. Based on manifested weights, 2,003 tons of soil and debris was disposed of at the hazardous landfill from Pit No. 2.

Transportation and Disposal

Transportation was provided through CWM-ENRAC by a subcontract transportation firm, C.W. Penn and Sons. CWM-ENRAC utilized a clean road method of loading where the truck wheels and undercarriage were prevented from contact with contaminated areas from within the unit area of contamination. End-dump trailers were used exclusively, and each was lined with a polyethylene bed liner prior to waste loading. Each individual load was accompanied by a Louisiana hazardous waste materials manifest signed by a representative of Cedar. Weights of each load were measured on-site at Cedar's certified truck scales.

The trucks were transported over a DOT approved hazardous materials haul route to Chemical Waste Management's hazardous landfill facility in Carlyss, Louisiana. Each load was inspected to insure conformance with the approved profile, then emptied into an active landfill cell. Following emptying, each truck was inspected for residual waste in the bed,

Backfilling

After confirming that the cleanup standard had been achieved, CWM-ENRAC proceeded to backfill the excavation with clean soil. Soil was imported from an off-site location and offloaded at the edge of the excavation. CWM-ENRAC provided the initial placement of the fill soil until several feet of clean soil overlay any remaining contamination in pit. Afterwards, the soil supplier completed the backfill operation. Backfilling and essentially closure of Pit No. 1 were complete on March 31, 1992. Excavation of Pit No. 2 had commenced while waiting on sampling of Pit No. 1, then after verification sampling of Pit No. 2, it was backfilled on April 6 and 7, 1992. In both cases the soil was brought up flush with the surrounding ground elevation.

Handling and Dispensation of Drummed Materials

As previously stated, each drum containing waste materials was over-packed before it was lifted out of the excavation. Each over-pack container was placed on pallets within the contaminant reduction zone, then transferred to a temporary storage area at the plant. Each container was sequentially numbered as it was removed, and each over-pack container was labelled with a hazardous waste label and dated as to when it was removed.

Cedar arranged for disposal of the drummed wastes directly with a separate handler and disposal company. Each of the over-packed drums was transported to ENSCO, in El Dorado, Arkansas for incineration. All of the drums had been removed from the site prior to demobilization of CWM-ENRAC.

Tear-Down and Demobilization

At the completion of all contaminated work, and before backfilling began, the trackhoe was thoroughly decontaminated. After backfilling, the trackhoe was cleaned and returned to the leasing company. Following the initial placement of backfill soil, the exclusion zone was disestablished. CWM-ENRAC demobilized from the plant on April 7, 1992.

APPENDIX A

Results of Laboratory Analyses

Preliminary Assessment of Overburden

Pit No. 1

Chemical Waste Management, Inc.

P.O. Box 2563
Port Arthur, Texas 77643-2563
409/736-2821

Example: 1-1-V/S is a sample from Pit 1, 1-ft depth. V/S means both volatile and semi-vols were analyzed.

VOA/SVOA Sample Narrative

Enclosed are the results of the analysis of eight samples, 1-1-v/s, 1-2-v/s, 1-4-v/s, 1-10-v/s, ~~2-1-v/s, 2-2-v/s, 2-3-v/s, and 2-10-v/s~~ submitted on March 4, 1992.

Representative portions of these samples were analyzed by EPA SW846 Method 8240 and were extracted in accordance with EPA SW846 Method 3520, and then analyzed in accordance with EPA SW846 Method 8270 using a Hewlett-Packard 5890 series II Gas Chromatograph/Mass Spectrometer (GC/MS) for a calibrated list of target compounds and for each uncalibrated tentatively identified compound (TIC). An instrument performance check (IPC), quality control check (QC), and method blank were analyzed with this sample in accordance with the quality assurance program (QAP).

The EPA definition of a tentatively identified compound is a compound not associated with the calibration standards established upon the mass spectrometer which analyzed the sample in question. The mass spectrum from the sample is compared with the National Bureau of Standards Mass Spectra Library and must meet the following criteria:relative intensities of all ions in the reference spectrum must be present, the relative intensities of these ions should agree within 20%, molecular ions present in the reference spectrum should be present in the sample spectrum, ions present in the sample spectrum but not in the reference spectrum should be reviewed for possible background contamination or the presence of coeluting compounds, and ions present in the reference spectrum but not in the sample spectrum should be reviewed for possible subtraction since data reduction programs can sometimes create this discrepancy. This data will then be evaluated by an analyst trained in the interpretation of mass spectra to tentatively identify the compound. Since the second criteria for positive identification (GC retention time) is not available this is only a tentative identification.

Quantitation of tentatively identified compounds is performed by relating the area of the primary ion of the TIC to the nearest internal standard. The response of the TIC is **assumed** to be one relative to that internal standard. (Note that none of the compounds we are calibrated for has a response factor of one.)

The results of the analysis of the sample, Port Arthur numbers CCC-0001 through CCC-008, (1-1-v/s, 1-2-v/s, 1-4-v/s, 1-10-v/s, 2-1-v/s, 2-2-v/s, 2-3-v/s, 2-10-v/s) are contained within the data package.

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I certify that this sample data package is complete and in compliance with the contracted agreement. Release of this data has been authorized by the laboratory manager and is verified by the following signature.

John C. Terry
Special Projects Manager
Southern Region

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Chemical Waste Management, Inc.
Port Arthur Facility
SWAR Addendum / Analytical Report

Lab ID No: CCC-0001
Description: 1-1-V/S
Requestor: M. Greer
Generator: Cedar Chemical
Analysis Date: 04-Mar-92
Analyst: MLL
Reviewer: BMP
Units: µg/kg (ppb)

VOLATILES By SW846 Method 8240

ANALYTE	MDL	RESULT
1,1,1-Trichloroethane	5.6	< MDL
1,1,1,2-Tetrachloroethane	6.9	< MDL
1,1,2,2-Tetrachloroethane	15	< MDL
1,1,2-Trichloroethane	3.1	< MDL
1,1,2-Trichlorotrifluoroethane	4.5	< MDL
1,1-Dichloroethane	3.2	< MDL
1,1-Dichloroethene	3.6	< MDL
1,2-Dibromo-3-chloropropane	11	< MDL
1,2-Dibromomethane	5.0	< MDL
1,2-Dichloroethane	2.1	< MDL
1,2-Dichloropropane	1.3	< MDL
1,2,3-Trichloropropane	9.5	< MDL
2-Butanone	16	< MDL
2-Chloroethyl vinyl ether	2.0	< MDL
2-Hexanone	8.8	< MDL
4-Methyl-2-pentanone	16	< MDL
Acetone	6.0	68
Acetonitrile	9.4	< MDL
Acrolein	8.0	< MDL
Acrylonitrile	5.3	< MDL
Allyl Chloride	6.4	< MDL
Benzene	1.2	< MDL
Bromodichloromethane	3.1	< MDL
Bromoform	7.8	< MDL
Bromomethane	2.4	< MDL
Carbon disulfide	3.2	< MDL
Carbon tetrachloride	1.6	< MDL
Chlorobenzene	2.1	< MDL
Chloroethane	2.2	< MDL
Chloroform	2.1	< MDL

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Chemical Waste Management, Inc.
Port Arthur Facility
SWAR Addendum / Analytical Report

Lab ID No: CCC-0001
Description: 1-1-V/S
Requestor: M. Greer
Generator: Cedar Chemical
Analysis Date: 04-Mar-92
Analyst: MLL
Reviewer: BMP
Units: µg/kg (ppb)

VOLATILES By SW846 Method 8240

ANALYTE	MDL	RESULT
Chloromethane	1.9	< MDL
Chloroprene	3.9	< MDL
cis-1,3-dichloropropene	2.7	< MDL
Dibromochloromethane	3.4	< MDL
Dibromomethane	3.8	< MDL
Ethanol	3.8	< MDL
Ethyl acetate	8.3	< MDL
Ethyl ether	7.1	< MDL
Ethyl methacrylate	4.1	< MDL
Ethylbenzene	5.9	< MDL
Iodomethane	6.1	< MDL
Isobutyl alcohol	20	< MDL
Methylacrylonitrile	11	< MDL
Methyl methacrylate	11	< MDL
Methylene chloride	3.9	68
Propionitrile	21	< MDL
Styrene	3.2	< MDL
Tetrachloroethene	2.6	< MDL
Toluene	1.1	3.6
trans-1,2-dichloroethene	2.5	< MDL
trans-1,3-dichloropropene	1.8	< MDL
Trichloroethane	1.2	< MDL
Trichlorofluoromethane	5.5	< MDL
Vinyl Chloride	1.9	< MDL
Xylenes	11	< MDL

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LF

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

AB123

Lab Name: New CLP Forms Contract: CCC-0001

Lab Code: HP001 Case No.: AD-76 SAS No.: 12345 SDG No.: 123456

Matrix: (soil/water) SOIL Lab Sample ID: CCC-0001

Sample wt/vol: 1000 (g/mL) mL Lab File ID: >B3138

Level: (low/med) LOW Date Received: 03/04/92

% Moisture: not dec.---- dec. ---- Date Extracted: 03/04/92

Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 3/04/92

GPC Cleanup: (Y/N) N pH: 7.2 Dilution Factor: 1.00000

Number TICs found: CONCENTRATION UNITS: (ug/L or ug/Kg) ug/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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Chemical Waste Management, Inc.
Port Arthur Facility
SWAR Addendum / Analytical Report

Lab ID No: CCC-0001
Description: 1-1-V/S
Requestor: CWM - ENRAC
Generator: CEDAR CHEMICAL
Analysis Date: 07-Mar-92
Analyst: HAB
Reviewer: [illegible]
Units: mg/kg (ppm)

SEMI-VOLATILES By SW846 Method 8270

ANALYTE	MDL	RESULT
1,2,4,5-Tetrachlorobenzene	0.45	< MDL
1,2,4-Trichlorobenzene	0.33	< MDL
1,2-Dichlorobenzene	0.23	< MDL
1,3-Dichlorobenzene	0.23	< MDL
1,4-Dichlorobenzene	0.18	< MDL
2,4,5-Trichlorophenol	0.37	< MDL
2,4,6-Trichlorophenol	0.60	< MDL
2,4-Dichlorophenol	0.39	< MDL
2,4-Dimethylphenol	0.64	< MDL
2,4-Dinitrophenol	1.2	< MDL
2,4-Dinitrotoluene	0.27	< MDL
2,6-Dinitrotoluene	0.25	< MDL
2-Chloronaphthalene	0.20	< MDL
2-Chlorophenol	0.36	< MDL
2-Methylnaphthalene	0.35	< MDL
2-Methylphenol	1.6	< MDL
2-Nitroaniline	0.22	< MDL
2-Nitrophenol	0.39	< MDL
2-sec-Butyl-4,6-dinitrophenol	0.82	< MDL
3,3'-Dichlorobenzidine	0.75	< MDL
3+4-Methylphenol	0.60	< MDL
3-Nitroaniline	0.28	< MDL
4,6-Dinitro-2-methylphenol	0.39	< MDL
4-Bromophenyl-phenylether	0.23	< MDL
4-Chloroaniline	0.39	< MDL
4-Chlorophenyl-phenylether	0.20	< MDL
4-Chloro-3-methylphenol	0.38	< MDL
4-Nitroaniline	0.18	< MDL
4-Nitrophenol	3.3	< MDL
Acenaphthene	0.32	< MDL

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Chemical Waste Management, Inc.
Port Arthur Facility
SWAR Addendum / Analytical Report

Lab ID No: CCC-0001
Description: 1-1-V/S
Requestor: CWM - ENRAC
Generator: CEDAR CHEMICAL
Analysis Date: 07-Mar-92
Analyst: HAB
Reviewer:
Units: mg/kg (ppm)

SEMI-VOLATILES By SW846 Method 8270

ANALYTE	MDL	RESULT	
Acenaphthylene	0.23	< MDL	
Aniline	0.40	< MDL	
Anthracene	0.29	< MDL	
Azobenzene	0.23	< MDL	
Benzidine	6.4	< MDL	
Benzoic acid	6.3	< MDL	
Benzo(a)anthracene	0.35	< MDL	
Benzo(a)pyrene	0.22	< MDL	
Benzo(b)fluoranthene	0.29	< MDL	
Benzo(g,h,i)perylene	0.27	< MDL	
Benzo(k)fluoranthene	0.37	< MDL	
Benzyl alcohol	0.31	< MDL	
bis(2-Chloroethoxy)methane	0.30	< MDL	
bis(2-Chloroisopropyl)ether	1.2	< MDL	
bis(2-Cloroethyl)ether	0.22	< MDL	
bis(2-Ethylhexyl)phthalate	1.9	4.2	B
Butylbenzylphthalate	0.24	< MDL	
Chrysene	0.29	< MDL	
Dibenzofuran	0.22	< MDL	
Dibenz(a,h)anthracene	0.22	< MDL	
Diethylphthalate	0.062	< MDL	
Dimethylphthalate	0.028	< MDL	
Di-n-butylphthalate	0.22	< MDL	
Di-n-octylphthalate	0.24	< MDL	
Fluoranthene	0.27	< MDL	
Fluorene	1.2	< MDL	
Hexachlorobenzene	0.25	< MDL	
Hexachlorobutadiene	0.11	< MDL	
Hexachlorocyclopentadiene	5.2	< MDL	
Hexachloroethane	0.16	< MDL	

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Chemical Waste Management, Inc.
Port Arthur Facility
SWAR Addendum / Analytical Report

Lab ID No: CCC-0001
Description: 1-1-V/S
Requestor: CWM - ENRAC
Generator: CEDAR CHEMICAL
Analysis Date: 07-Mar-92
Analyst: HAB
Reviewer:
Units: mg/kg (ppm)

SEMI-VOLATILES By SW846 Method 8270

ANALYTE	MDL	RESULT
Indeno(1,2,3-cd)pyrene	0.24	< MDL
Naphthalene	0.23	< MDL
Nitrobenzene	0.29	< MDL
N-Nitrosodimethylamine	0.81	< MDL
N-Nitrosodiphenylamine	0.51	< MDL
N-Nitroso-di-n-propylamine	0.76	< MDL
Pentachlorophenol	4.1	< MDL
Phenanthrene	0.21	< MDL
Phenol	0.36	< MDL
Pyrene	0.33	< MDL
Pyridine	0.30	< MDL

NOTE: MDL = Method Detection Limit

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AB123

Lab Name: CHEMWASTE/PTA Contract: CEDAR CHEM.

Lab Code: HP001 Case No.: AD-76 SAS No.: 12345 SDG No.: 123456

Matrix: (soil/water) WATER Lab Sample ID: CCC-0001

Sample wt/vol: 1000 (g/mL) mL Lab File ID: >C0655

Level: (low/med) LOW Date Received: 03/04/92

% Moisture: not dec.---- dec. ---- Date Extracted: 03/04/92

GPC Cleanup: (Y/N) N pH: 7.2 Date Analyzed: 03/05/92

Final Extract Volume: 1 (uL) Dilution Factor: 1.00000

Injection Volume: 1 (uL) Conversion Factor: 1.0000

Number TICs found: 0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.
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