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350033

ANALYTICAL REPORT

PROJECT NO. YGQP97-00234-T

DAYTON THERMAL

Lot #: A7L170124

Cathy Dover

Compuchem Environmental

QUANTERRA INCORPORATED

Denise Pohl
for
Jeffrey C. Smith
Project Manager

January 15, 1998

CASE NARRATIVE

The following report contains the analytical results for three solid and two water samples submitted to Quanterra-North Canton by Compuchem Environmental from the Dayton Thermal Site, project number YGQP97-00234-T. The samples were received December 16, 1997, according to documented sample acceptance procedures, and were analyzed in accordance with Ohio Voluntary Action Program protocols (Lab Certification CL0024).

Quanterra-North Canton utilizes only USEPA approved methods and instrumentation in all analytical work. The samples presented in this report were analyzed for the parameters listed on the method reference page in accordance with the methods indicated. Preliminary results were provided by facsimile transmission to Cathy Dover on January 8, 1998.

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

Samples were received at the laboratory at a temperature of 2.2° C.

GC/MS VOLATILES

Recoveries of Toluene were out high in the Laboratory control sample. No positive hits were detected in any of the samples

GC/MS SEMIVOLATILES

The matrix spike/matrix spike duplicate associated with batch 7363111 exhibited recoveries outside acceptance limits However, since the associated method blank and laboratory control sample were in control, no corrective action was necessary.

ANALYTICAL METHODS SUMMARY

A7L170124

PARAMETER	ANALYTICAL METHOD
DI Leachable pH	MCAWW 150.1
Hexavalent Chromium	SW846 7196A
Ignitability	SW846 SECTION 7.1.2
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A
Method for Chlorine in Coal	ASTM D 2361-91
Organochlorine Pesticides and PCBs	SW846 8080A
Paint Filter Test	SW846 9095
Reactive Cyanide	SW846 7.3.3
Reactive Sulfide	SW846 7.3.4
Specific Gravity	SM18 2710 F
Total Residue as Percent Solids	MCAWW 160.3 MOD
Trivalent chromium	SW846 7196A
TCLP BNA's	SW846 8270B
TCLP Metals (ICP)	SW846 6010A
TCLP Volatiles	SW846 8260A
Volatile Organics by GC/MS	SW846 8260A

References:

ASTM Annual Book Of ASTM Standards.

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SM18 "Standard Methods for the Examination of Water and Wastewater", 18th Edition, 1992.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

A7L170124

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
CEKJ6	001	FB121397	12/13/97	10:40
CEKJV	002	TB121397	12/13/97	00:00
CEKK0	003	TB9(3-5')	12/13/97	09:30
CEKK5	004	TB12(5-7')	12/13/97	10:50
CEKK8	005	TB10(1-3')	12/13/97	12:00

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages
- All calculations are performed before rounding to avoid round-off errors in calculated results
- Results noted as "ND" were not detected at or above the stated limit
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

COMPUCHEM ENVIRONMENTAL

Client Sample ID: FB121397

GC/MS Volatiles

Lot-Sample #...: A7L170124-001 **Work Order #...:** CEKJ6101 **Matrix.....:** WATER
Date Sampled...: 12/13/97 10:40 **Date Received..:** 12/16/97
Prep Date.....: 12/24/97 **Analysis Date..:** 12/24/97
Prep Batch #...: 7358160
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acrolein	ND	100	ug/L	SW846 8260A
Acrylonitrile	ND	100	ug/L	SW846 8260A
Benzene	ND	5.0	ug/L	SW846 8260A
Bromoform	ND	5.0	ug/L	SW846 8260A
Bromomethane	ND	10	ug/L	SW846 8260A
Carbon tetrachloride	ND	5.0	ug/L	SW846 8260A
Chlorobenzene	ND	5.0	ug/L	SW846 8260A
Chlorodibromomethane	ND	5.0	ug/L	SW846 8260A
Chloroethane	ND	10	ug/L	SW846 8260A
Chloroform	ND	5.0	ug/L	SW846 8260A
Chloromethane	ND	10	ug/L	SW846 8260A
Dichlorobromomethane	ND	5.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	5.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	5.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	5.0	ug/L	SW846 8260A
1,2-Dichloroethene (total)	ND	5.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	5.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	5.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	5.0	ug/L	SW846 8260A
Ethylbenzene	ND	5.0	ug/L	SW846 8260A
Methylene chloride	ND	5.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	SW846 8260A
Tetrachloroethene	ND	5.0	ug/L	SW846 8260A
Toluene	ND	5.0	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	5.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	5.0	ug/L	SW846 8260A
Trichloroethene	ND	5.0	ug/L	SW846 8260A
Vinyl chloride	ND	10	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	103	(73 - 115)
Toluene-d8	95	(90 - 110)
Bromofluorobenzene	99	(87 - 110)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB121397

GC/MS Volatiles

Lot-Sample #...: A7L170124-002 **Work Order #...:** CEKJV101 **Matrix.....:** WATER
Date Sampled...: 12/13/97 00:00 **Date Received..:** 12/16/97
Prep Date.....: 12/24/97 **Analysis Date..:** 12/24/97
Prep Batch #...: 7358160
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acrolein	ND	100	ug/L	SW846 8260A
Acrylonitrile	ND	100	ug/L	SW846 8260A
Benzene	ND	5.0	ug/L	SW846 8260A
Bromoform	ND	5.0	ug/L	SW846 8260A
Bromomethane	ND	10	ug/L	SW846 8260A
Carbon tetrachloride	ND	5.0	ug/L	SW846 8260A
Chlorobenzene	ND	5.0	ug/L	SW846 8260A
Chlorodibromomethane	ND	5.0	ug/L	SW846 8260A
Chloroethane	ND	10	ug/L	SW846 8260A
Chloroform	ND	5.0	ug/L	SW846 8260A
Chloromethane	ND	10	ug/L	SW846 8260A
Dichlorobromomethane	ND	5.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	5.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	5.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	5.0	ug/L	SW846 8260A
1,2-Dichloroethene (total)	ND	5.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	5.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	5.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	5.0	ug/L	SW846 8260A
Ethylbenzene	ND	5.0	ug/L	SW846 8260A
Methylene chloride	ND	5.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	SW846 8260A
Tetrachloroethene	ND	5.0	ug/L	SW846 8260A
Toluene	ND	5.0	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	5.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	5.0	ug/L	SW846 8260A
Trichloroethene	ND	5.0	ug/L	SW846 8260A
Vinyl chloride	ND	10	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	100	(73 - 115)
Toluene-d8	95	(90 - 110)
Bromofluorobenzene	97	(87 - 110)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB9(3-5')

GC/MS Volatiles

Lot-Sample #...: A7L170124-003 **Work Order #...:** CEKK0102 **Matrix.....:** SOLID
Date Sampled...: 12/13/97 09:30 **Date Received..:** 12/16/97
Prep Date.....: 12/23/97 **Analysis Date..:** 12/27/97
Prep Batch #...: 7363196
Dilution Factor: 20
% Moisture.....: 10

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acrolein	ND	280000	ug/kg	SW846 8260A
Acrylonitrile	ND	280000	ug/kg	SW846 8260A
Benzene	ND	14000	ug/kg	SW846 8260A
Bromoform	ND	14000	ug/kg	SW846 8260A
Bromomethane	ND	28000	ug/kg	SW846 8260A
Carbon tetrachloride	ND	14000	ug/kg	SW846 8260A
Chlorobenzene	ND	14000	ug/kg	SW846 8260A
Chlorodibromomethane	ND	14000	ug/kg	SW846 8260A
Chloroethane	ND	28000	ug/kg	SW846 8260A
Chloroform	ND	14000	ug/kg	SW846 8260A
Chloromethane	ND	28000	ug/kg	SW846 8260A
Dichlorobromomethane	ND	14000	ug/kg	SW846 8260A
1,1-Dichloroethane	ND	14000	ug/kg	SW846 8260A
1,2-Dichloroethane	ND	14000	ug/kg	SW846 8260A
1,1-Dichloroethene	ND	14000	ug/kg	SW846 8260A
1,2-Dichloroethene (total)	**20000**	**14000**	**ug/kg**	**SW846 8260A**
1,2-Dichloropropane	ND	14000	ug/kg	SW846 8260A
cis-1,3-Dichloropropene	ND	14000	ug/kg	SW846 8260A
trans-1,3-Dichloropropene	ND	14000	ug/kg	SW846 8260A
Ethylbenzene	ND	14000	ug/kg	SW846 8260A
Methylene chloride	ND	14000	ug/kg	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	14000	ug/kg	SW846 8260A
Tetrachloroethene	**180000**	**14000**	**ug/kg**	**SW846 8260A**
Toluene	ND	14000	ug/kg	SW846 8260A
1,1,1-Trichloroethane	**25000**	**14000**	**ug/kg**	**SW846 8260A**
1,1,2-Trichloroethane	ND	14000	ug/kg	SW846 8260A
Trichloroethene	**380000**	**14000**	**ug/kg**	**SW846 8260A**
Vinyl chloride	ND	28000	ug/kg	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	DIL	(61 - 115)
Toluene-d8	DIL	(82 - 129)
Bromofluorobenzene	DIL	(64 - 112)

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes

Results and reporting limits have been adjusted for dry weight

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB9(3-5')

TCLP GC/MS Volatiles

Lot-Sample #...: A7L170124-003 **Work Order #...:** CEKK010P **Matrix.....:** SOLID
Date Sampled...: 12/13/97 09:30 **Date Received..:** 12/16/97
Leach Date.....: 12/24/97 **Prep Date.....:** 01/05/98 **Analysis Date..:** 01/05/98
Leach Batch #..: P735702 **Prep Batch #...:** 7358177
Dilution Factor: 1
% Moisture.....: 10

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	0.025	mg/L	SW846 8260A
Carbon tetrachloride	ND	0.025	mg/L	SW846 8260A
Chlorobenzene	ND	0.025	mg/L	SW846 8260A
Chloroform	ND	0.025	mg/L	SW846 8260A
1,2-Dichloroethane	ND	0.025	mg/L	SW846 8260A
1,1-Dichloroethylene	ND	0.070	mg/L	SW846 8260A
Methyl ethyl ketone	ND	0.050	mg/L	SW846 8260A
Tetrachloroethylene	**0.19**	**0.025**	**mg/L**	**SW846 8260A**
Trichloroethylene	**0.70**	**0.025**	**mg/L**	**SW846 8260A**
Vinyl chloride	ND	0.050	mg/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	106	(61 - 115)
Toluene-d8	97	(82 - 129)
Bromofluorobenzene	92	(64 - 112)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB9(3-5')

TCLP GC/MS Semivolatiles

Lot-Sample #...: A7L170124-003 **Work Order #...:** CEKK010R **Matrix.....:** SOLID
Date Sampled...: 12/13/97 09:30 **Date Received..:** 12/16/97
Leach Date.....: 12/23/97 **Prep Date.....:** 12/29/97 **Analysis Date..:** 01/03/98
Leach Batch #..: P735603 **Prep Batch #...:** 7363111
Dilution Factor: 1
% Moisture.....: 10

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Nitrobenzene	ND	0.050	mg/L	SW846 8270B
Pentachlorophenol	ND	0.25	mg/L	SW846 8270B
Pyridine	ND	0.10	mg/L	SW846 8270B
2,4,5-Trichlorophenol	ND	0.25	mg/L	SW846 8270B
2,4,6-Trichlorophenol	ND	0.050	mg/L	SW846 8270B
m-Cresol & p-Cresol	ND	0.10	mg/L	SW846 8270B
1,4-Dichlorobenzene	ND	0.050	mg/L	SW846 8270B
2,4-Dinitrotoluene	ND	0.050	mg/L	SW846 8270B
Hexachlorobenzene	ND	0.050	mg/L	SW846 8270B
Hexachlorobutadiene	ND	0.050	mg/L	SW846 8270B
Hexachloroethane	ND	0.050	mg/L	SW846 8270B
o-Cresol	ND	0.050	mg/L	SW846 8270B
Phenol	ND	0.050	mg/L	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	69	(44 - 110)
2-Fluorobiphenyl	71	(50 - 105)
Terphenyl-d14	106	(11 - 158)
Phenol-d5	34	(0.0- 131)
2-Fluorophenol	28	(0.0- 130)
2,4,6-Tribromophenol	38	(0.0- 156)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB9(3-5')

GC Semivolatiles

Lot-Sample #...: A7L170124-003 **Work Order #...:** CEKK010Q **Matrix.....:** SOLID
Date Sampled...: 12/13/97 09:30 **Date Received..:** 12/16/97
Prep Date.....: 12/17/97 **Analysis Date..:** 12/23/97
Prep Batch #...: 7351251
Dilution Factor: 1
% Moisture.....: 10

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	19	ug/kg	SW846 8080A
Aroclor 1221	ND	19	ug/kg	SW846 8080A
Aroclor 1232	ND	19	ug/kg	SW846 8080A
Aroclor 1242	ND	19	ug/kg	SW846 8080A
Aroclor 1248	ND	19	ug/kg	SW846 8080A
Aroclor 1254	ND	37	ug/kg	SW846 8080A
Aroclor 1260	ND	37	ug/kg	SW846 8080A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	82	(8.0- 129)
Decachlorobiphenyl	86	(0.0- 138)

NOTE(S):

Results and reporting limits have been adjusted for dry weight

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB9(3-5')

TOTAL Metals

Lot-Sample #...: A7L170124-003 **Matrix.....:** SOLID
Date Sampled...: 12/13/97 09:30 **Date Received..:** 12/16/97
% Moisture.....: 10

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7356129						
Trivalent Chromium	ND	0.10	mg/L	SW846 7196A	12/22-12/29/97	CEKK010G

Dilution Factor: 1

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB9(3-5')

TCLP Metals

Lot-Sample #...: A7L170124-003 **Matrix.....:** SOLID
Date Sampled...: 12/13/97 09:30 **Date Received..:** 12/16/97
Leach Date.....: 12/23/97 **Leach Batch #..:** P735603

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7357176						
Silver	ND	0.50	mg/L	SW846 6010A	12/23-12/29/97	CEKK0103
		Dilution Factor: 1				
Arsenic	ND	0.50	mg/L	SW846 6010A	12/23-12/29/97	CEKK0104
		Dilution Factor: 1				
Barium	ND	10.0	mg/L	SW846 6010A	12/23-12/29/97	CEKK0105
		Dilution Factor: 1				
Cadmium	ND	0.10	mg/L	SW846 6010A	12/23-12/29/97	CEKK0106
		Dilution Factor: 1				
Chromium	ND	0.50	mg/L	SW846 6010A	12/23-12/29/97	CEKK0107
		Dilution Factor: 1				
Lead	ND	0.50	mg/L	SW846 6010A	12/23-12/29/97	CEKK0108
		Dilution Factor: 1				
Selenium	ND	0.25	mg/L	SW846 6010A	12/23-12/29/97	CEKK0109
		Dilution Factor: 1				
Copper	ND	1.0	mg/L	SW846 6010A	12/23-12/29/97	CEKK010A
		Dilution Factor: 1				
Nickel	ND	0.040	mg/L	SW846 6010A	12/23-12/29/97	CEKK010C
		Dilution Factor: 1				
Mercury	ND	0.0020	mg/L	SW846 7470A	12/23-12/29/97	CEKK010E
		Dilution Factor: 1				
Zinc	ND	1.0	mg/L	SW846 6010A	12/23-12/29/97	CEKK010D
		Dilution Factor: 1				

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB9(3-5')

General Chemistry

Lot-Sample #...: A7L170124-003 **Work Order #...:** CEKK0 **Matrix.....:** SOLID
Date Sampled...: 12/13/97 09:30 **Date Received..:** 12/16/97
% Moisture.....: 10

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
DI Leachable pH	**8.5**		**No Units**	**MCAWW 150.1**	**12/19/97**	**7352122**

Dilution Factor: 1

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB9(3-5')

TCLP General Chemistry

Lot-Sample #...: A7L170124-003 **Work Order #...:** CEKK0 **Matrix.....:** SOLID
Date Sampled...: 12/13/97 09:30 **Date Received..:** 12/16/97
% Moisture.....: 10 **Leach Date.....:** 12/31/97 **Leach Batch #..:** P736404

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium	ND	0.02	mg/L	SW846 7196A	12/31/97	7365134

Dilution Factor: 1

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB9(3-5')

General Chemistry

Lot-Sample #...: A7L170124-003 **Work Order #...:** CEKK0 **Matrix.....:** SOLID
Date Sampled...: 12/13/97 09:30 **Date Received..:** 12/16/97
% Moisture.....: 10

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Ignitability	**NEG**		**No Units**	**SW846 SECTION 7.1**	**12/30/97**	**7364198**
	Dilution Factor: 1					
Paint Filter Test	**NEG**		**No Units**	**SW846 9095**	**12/18/97**	**7352163**
	Dilution Factor: 1					
Percent Solids	**89.6**	**0.10**	**%**	**MCAWW 160.3 MOD**	**12/18-12/19/97**	**7352121**
	Dilution Factor: 1					
Reactive Cyanide	ND	220	mg/kg	SW846 7.3.3	12/18/97	7352201
	Dilution Factor: 1					
Reactive Sulfide	ND	220	mg/kg	SW846 7.3.4	12/18/97	7352200
	Dilution Factor: 1					
Specific Gravity	**1.3**		**No Units**	**SM18 2710 F**	**12/30/97**	**7364206**
	Dilution Factor: 1					
Total Halogens	**0.46**	**0.10**	**%**	**ASTM D 2361-91**	**01/09-01/12/98**	**8009181**
	Dilution Factor: 1					

NOTE(S):

RL Reporting Limit

NEG Negative

Results and reporting limits have been adjusted for dry weight

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB12(5-7')

GC/MS Volatiles

Lot-Sample #...: A7L170124-004 **Work Order #...:** CEKK5102 **Matrix.....:** SOLID
Date Sampled...: 12/13/97 10:50 **Date Received..:** 12/16/97
Prep Date.....: 12/26/97 **Analysis Date..:** 12/26/97
Prep Batch #...: 7362109
Dilution Factor: 1
% Moisture.....: 4.7

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acrolein	ND	100	ug/kg	SW846 8260A
Acrylonitrile	ND	100	ug/kg	SW846 8260A
Benzene	ND	5.2	ug/kg	SW846 8260A
Bromoform	ND	5.2	ug/kg	SW846 8260A
Bromomethane	ND	10	ug/kg	SW846 8260A
Carbon tetrachloride	ND	5.2	ug/kg	SW846 8260A
Chlorobenzene	ND	5.2	ug/kg	SW846 8260A
Chlorodibromomethane	ND	5.2	ug/kg	SW846 8260A
Chloroethane	ND	10	ug/kg	SW846 8260A
Chloroform	ND	5.2	ug/kg	SW846 8260A
Chloromethane	ND	10	ug/kg	SW846 8260A
Dichlorobromomethane	ND	5.2	ug/kg	SW846 8260A
1,1-Dichloroethane	ND	5.2	ug/kg	SW846 8260A
1,2-Dichloroethane	ND	5.2	ug/kg	SW846 8260A
1,1-Dichloroethene	ND	5.2	ug/kg	SW846 8260A
1,2-Dichloroethene (total)	ND	5.2	ug/kg	SW846 8260A
1,2-Dichloropropane	ND	5.2	ug/kg	SW846 8260A
cis-1,3-Dichloropropene	ND	5.2	ug/kg	SW846 8260A
trans-1,3-Dichloropropene	ND	5.2	ug/kg	SW846 8260A
Ethylbenzene	ND	5.2	ug/kg	SW846 8260A
Methylene chloride	ND	5.2	ug/kg	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	5.2	ug/kg	SW846 8260A
Tetrachloroethene	ND	5.2	ug/kg	SW846 8260A
Toluene	ND	5.2	ug/kg	SW846 8260A
1,1,1-Trichloroethane	ND	5.2	ug/kg	SW846 8260A
1,1,2-Trichloroethane	ND	5.2	ug/kg	SW846 8260A
Trichloroethene	ND	5.2	ug/kg	SW846 8260A
Vinyl chloride	ND	10	ug/kg	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	92	(61 - 115)
Toluene-d8	92	(82 - 129)
Bromofluorobenzene	91	(64 - 112)

NOTE(S):

Results and reporting limits have been adjusted for dry weight

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB12(5-7')

TCLP GC/MS Volatiles

Lot-Sample #...: A7L170124-004 **Work Order #...:** CEKK510P **Matrix.....:** SOLID
Date Sampled...: 12/13/97 10:50 **Date Received..:** 12/16/97
Leach Date.....: 12/24/97 **Prep Date.....:** 01/06/98 **Analysis Date..:** 01/06/98
Leach Batch #..: P735702 **Prep Batch #...:** 7358177
Dilution Factor: 1
% Moisture.....: 4.7

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	0.025	mg/L	SW846 8260A
Carbon tetrachloride	ND	0.025	mg/L	SW846 8260A
Chlorobenzene	ND	0.025	mg/L	SW846 8260A
Chloroform	ND	0.025	mg/L	SW846 8260A
1,2-Dichloroethane	ND	0.025	mg/L	SW846 8260A
1,1-Dichloroethylene	ND	0.070	mg/L	SW846 8260A
Methyl ethyl ketone	ND	0.050	mg/L	SW846 8260A
Tetrachloroethylene	ND	0.025	mg/L	SW846 8260A
Trichloroethylene	ND	0.025	mg/L	SW846 8260A
Vinyl chloride	ND	0.050	mg/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	92	(61 - 115)
Toluene-d8	97	(82 - 129)
Bromofluorobenzene	88	(64 - 112)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB12(5-7')

TCLP GC/MS Semivolatiles

Lot-Sample #...: A7L170124-004 **Work Order #...:** CEKK510R **Matrix.....:** SOLID
Date Sampled...: 12/13/97 10:50 **Date Received..:** 12/16/97
Leach Date.....: 12/23/97 **Prep Date.....:** 12/29/97 **Analysis Date..:** 01/02/98
Leach Batch #..: P735603 **Prep Batch #...:** 7363111
Dilution Factor: 1
% Moisture.....: 4.7

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Nitrobenzene	ND	0.050	mg/L	SW846 8270B
Pentachlorophenol	ND	0.25	mg/L	SW846 8270B
Pyridine	ND	0.10	mg/L	SW846 8270B
2,4,5-Trichlorophenol	ND	0.25	mg/L	SW846 8270B
2,4,6-Trichlorophenol	ND	0.050	mg/L	SW846 8270B
m-Cresol & p-Cresol	ND	0.10	mg/L	SW846 8270B
1,4-Dichlorobenzene	ND	0.050	mg/L	SW846 8270B
2,4-Dinitrotoluene	ND	0.050	mg/L	SW846 8270B
Hexachlorobenzene	ND	0.050	mg/L	SW846 8270B
Hexachlorobutadiene	ND	0.050	mg/L	SW846 8270B
Hexachloroethane	ND	0.050	mg/L	SW846 8270B
o-Cresol	ND	0.050	mg/L	SW846 8270B
Phenol	**0.072**	**0.050**	**mg/L**	**SW846 8270B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	70	(44 - 110)
2-Fluorobiphenyl	78	(50 - 105)
Terphenyl-d14	118	(11 - 158)
Phenol-d5	45	(0.0- 131)
2-Fluorophenol	42	(0.0- 130)
2,4,6-Tribromophenol	71	(0.0- 156)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB12(5-7')

GC Semivolatiles

Lot-Sample #...: A7L170124-004 **Work Order #...:** CEKK510Q **Matrix.....:** SOLID
Date Sampled...: 12/13/97 10:50 **Date Received..:** 12/16/97
Prep Date.....: 12/17/97 **Analysis Date..:** 12/23/97
Prep Batch #...: 7351251
Dilution Factor: 1
% Moisture.....: 4.7

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	18	ug/kg	SW846 8080A
Aroclor 1221	ND	18	ug/kg	SW846 8080A
Aroclor 1232	ND	18	ug/kg	SW846 8080A
Aroclor 1242	ND	18	ug/kg	SW846 8080A
Aroclor 1248	ND	18	ug/kg	SW846 8080A
Aroclor 1254	ND	35	ug/kg	SW846 8080A
Aroclor 1260	ND	35	ug/kg	SW846 8080A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	81	(8.0- 129)
Decachlorobiphenyl	87	(0.0- 138)

NOTE(S):

Results and reporting limits have been adjusted for dry weight

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB12(5-7')

TOTAL Metals

Lot-Sample #...: A7L170124-004 **Matrix.....:** SOLID
Date Sampled...: 12/13/97 10:50 **Date Received..:** 12/16/97
% Moisture.....: 4.7

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7356129						
Trivalent Chromium	ND	0.10	mg/L	SW846 7196A	12/22-12/29/97	CEKK510G

Dilution Factor: 1

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB12(5-7')

TCLP Metals

Lot-Sample #...: A7L170124-004 **Matrix.....:** SOLID
Date Sampled...: 12/13/97 10:50 **Date Received..:** 12/16/97
Leach Date.....: 12/23/97 **Leach Batch #..:** P735603

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7357176						
Silver	ND	0.50	mg/L	SW846 6010A	12/23-12/29/97	CEKK5103
		Dilution Factor: 1				
Arsenic	ND	0.50	mg/L	SW846 6010A	12/23-12/29/97	CEKK5104
		Dilution Factor: 1				
Barium	ND	10.0	mg/L	SW846 6010A	12/23-12/29/97	CEKK5105
		Dilution Factor: 1				
Cadmium	ND	0.10	mg/L	SW846 6010A	12/23-12/29/97	CEKK5106
		Dilution Factor: 1				
Chromium	ND	0.50	mg/L	SW846 6010A	12/23-12/29/97	CEKK5107
		Dilution Factor: 1				
Lead	ND	0.50	mg/L	SW846 6010A	12/23-12/29/97	CEKK5108
		Dilution Factor: 1				
Selenium	ND	0.25	mg/L	SW846 6010A	12/23-12/29/97	CEKK5109
		Dilution Factor: 1				
Copper	ND	1.0	mg/L	SW846 6010A	12/23-12/29/97	CEKK510A
		Dilution Factor: 1				
Nickel	ND	0.040	mg/L	SW846 6010A	12/23-12/29/97	CEKK510C
		Dilution Factor: 1				
Mercury	ND	0.0020	mg/L	SW846 7470A	12/23-12/29/97	CEKK510E
		Dilution Factor: 1				
Zinc	ND	1.0	mg/L	SW846 6010A	12/23-12/29/97	CEKK510D
		Dilution Factor: 1				

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB12(5-7')

General Chemistry

Lot-Sample #...: A7L170124-004 **Work Order #...:** CEKK5 **Matrix.....:** SOLID
Date Sampled...: 12/13/97 10:50 **Date Received..:** 12/16/97
% Moisture.....: 4.7

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
DI Leachable pH	**9.3**		**No Units**	**MCAWW 150.1**	**12/19/97**	**7352122**

Dilution Factor: 1

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB12(5-7')

TCLP General Chemistry

Lot-Sample #...: A7L170124-004 **Work Order #...:** CEKK5 **Matrix.....:** SOLID
Date Sampled...: 12/13/97 10:50 **Date Received..:** 12/16/97
% Moisture.....: 4.7 **Leach Date.....:** 12/31/97 **Leach Batch #..:** P736404

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium	ND	0.02	mg/L	SW846 7196A	12/31/97	7365134

Dilution Factor: 1

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB12(5-7')

General Chemistry

Lot-Sample #...: A7L170124-004 **Work Order #...:** CEKK5 **Matrix.....:** SOLID
Date Sampled...: 12/13/97 10:50 **Date Received..:** 12/16/97
% Moisture.....: 4.7

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Ignitability	**NEG**		**No Units**	**SW846 SECTION 7.1**	**12/30/97**	**7364198**
	Dilution Factor: 1					
Paint Filter Test	**NEG**		**No Units**	**SW846 9095**	**12/18/97**	**7352163**
	Dilution Factor: 1					
Percent Solids	**95.3**	**0.10**	**%**	**MCAWW 160.3 MOD**	**12/18-12/19/97**	**7352121**
	Dilution Factor: 1					
Reactive Cyanide	ND	210	mg/kg	SW846 7.3.3	12/18/97	7352201
	Dilution Factor: 1					
Reactive Sulfide	ND	210	mg/kg	SW846 7.3.4	12/18/97	7352200
	Dilution Factor: 1					
Specific Gravity	**1.5**		**No Units**	**SM18 2710 F**	**12/30/97**	**7364206**
	Dilution Factor: 1					
Total Halogens	ND	0.10	%	ASTM D 2361-91	01/09-01/12/98	8009181
	Dilution Factor: 1					

NOTE(S):

RL Reporting Limit

NEG Negative

Results and reporting limits have been adjusted for dry weight

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB10(1-3')

GC/MS Volatiles

Lot-Sample #...: A7L170124-005 **Work Order #...:** CEKK8102 **Matrix.....:** SOLID
Date Sampled...: 12/13/97 12:00 **Date Received..:** 12/16/97
Prep Date.....: 12/23/97 **Analysis Date..:** 12/27/97
Prep Batch #...: 7363196
Dilution Factor: 20
% Moisture.....: 11

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acrolein	ND	280000	ug/kg	SW846 8260A
Acrylonitrile	ND	280000	ug/kg	SW846 8260A
Benzene	ND	14000	ug/kg	SW846 8260A
Bromoform	ND	14000	ug/kg	SW846 8260A
Bromomethane	ND	28000	ug/kg	SW846 8260A
Carbon tetrachloride	ND	14000	ug/kg	SW846 8260A
Chlorobenzene	ND	14000	ug/kg	SW846 8260A
Chlorodibromomethane	ND	14000	ug/kg	SW846 8260A
Chloroethane	ND	28000	ug/kg	SW846 8260A
Chloroform	ND	14000	ug/kg	SW846 8260A
Chloromethane	ND	28000	ug/kg	SW846 8260A
Dichlorobromomethane	ND	14000	ug/kg	SW846 8260A
1,1-Dichloroethane	ND	14000	ug/kg	SW846 8260A
1,2-Dichloroethane	ND	14000	ug/kg	SW846 8260A
1,1-Dichloroethene	ND	14000	ug/kg	SW846 8260A
1,2-Dichloroethene (total)	**65000**	**14000**	**ug/kg**	**SW846 8260A**
1,2-Dichloropropane	ND	14000	ug/kg	SW846 8260A
cis-1,3-Dichloropropene	ND	14000	ug/kg	SW846 8260A
trans-1,3-Dichloropropene	ND	14000	ug/kg	SW846 8260A
Ethylbenzene	ND	14000	ug/kg	SW846 8260A
Methylene chloride	ND	14000	ug/kg	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	14000	ug/kg	SW846 8260A
Tetrachloroethene	**43000**	**14000**	**ug/kg**	**SW846 8260A**
Toluene	ND	14000	ug/kg	SW846 8260A
1,1,1-Trichloroethane	**15000**	**14000**	**ug/kg**	**SW846 8260A**
1,1,2-Trichloroethane	ND	14000	ug/kg	SW846 8260A
Trichloroethene	**420000**	**14000**	**ug/kg**	**SW846 8260A**
Vinyl chloride	ND	28000	ug/kg	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	DIL	(61 - 115)
Toluene-d8	DIL	(82 - 129)
Bromofluorobenzene	DIL	(64 - 112)

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes

Results and reporting limits have been adjusted for dry weight

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB10(1-3')

TCLP GC/MS Volatiles

Lot-Sample #...: A7L170124-005 **Work Order #...:** CEKK810P **Matrix.....:** SOLID
Date Sampled...: 12/13/97 12:00 **Date Received..:** 12/16/97
Leach Date.....: 12/24/97 **Prep Date.....:** 01/05/98 **Analysis Date..:** 01/05/98
Leach Batch #..: P735702 **Prep Batch #...:** 7358177
Dilution Factor: 1
% Moisture.....: 11

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	0.025	mg/L	SW846 8260A
Carbon tetrachloride	ND	0.025	mg/L	SW846 8260A
Chlorobenzene	ND	0.025	mg/L	SW846 8260A
Chloroform	ND	0.025	mg/L	SW846 8260A
1,2-Dichloroethane	ND	0.025	mg/L	SW846 8260A
1,1-Dichloroethylene	ND	0.070	mg/L	SW846 8260A
Methyl ethyl ketone	ND	0.050	mg/L	SW846 8260A
Tetrachloroethylene	**0.049**	**0.025**	**mg/L**	**SW846 8260A**
Trichloroethylene	**0.75**	**0.025**	**mg/L**	**SW846 8260A**
Vinyl chloride	ND	0.050	mg/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	106	(61 - 115)
Toluene-d8	97	(82 - 129)
Bromofluorobenzene	91	(64 - 112)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB10(1-3')

TCLP GC/MS Semivolatiles

Lot-Sample #...: A7L170124-005 **Work Order #...:** CEKK810R **Matrix.....:** SOLID
Date Sampled...: 12/13/97 12:00 **Date Received..:** 12/16/97
Leach Date.....: 12/23/97 **Prep Date.....:** 12/29/97 **Analysis Date..:** 01/03/98
Leach Batch #..: P735603 **Prep Batch #...:** 7363111
Dilution Factor: 1
% Moisture.....: 11

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Nitrobenzene	ND	0.050	mg/L	SW846 8270B
Pentachlorophenol	ND	0.25	mg/L	SW846 8270B
Pyridine	ND	0.10	mg/L	SW846 8270B
2,4,5-Trichlorophenol	ND	0.25	mg/L	SW846 8270B
2,4,6-Trichlorophenol	ND	0.050	mg/L	SW846 8270B
m-Cresol & p-Cresol	ND	0.10	mg/L	SW846 8270B
1,4-Dichlorobenzene	ND	0.050	mg/L	SW846 8270B
2,4-Dinitrotoluene	ND	0.050	mg/L	SW846 8270B
Hexachlorobenzene	ND	0.050	mg/L	SW846 8270B
Hexachlorobutadiene	ND	0.050	mg/L	SW846 8270B
Hexachloroethane	ND	0.050	mg/L	SW846 8270B
o-Cresol	ND	0.050	mg/L	SW846 8270B
Phenol	ND	0.050	mg/L	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	64	(44 - 110)
2-Fluorobiphenyl	68	(50 - 105)
Terphenyl-d14	113	(11 - 158)
Phenol-d5	21	(0.0- 131)
2-Fluorophenol	6.4	(0.0- 130)
2,4,6-Tribromophenol	10	(0.0- 156)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB10(1-3')

GC Semivolatiles

Lot-Sample #...: A7L170124-005 **Work Order #...:** CEKK810Q **Matrix.....:** SOLID
Date Sampled...: 12/13/97 12:00 **Date Received..:** 12/16/97
Prep Date.....: 12/17/97 **Analysis Date..:** 12/23/97
Prep Batch #...: 7351251
Dilution Factor: 1
% Moisture.....: 11

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	19	ug/kg	SW846 8080A
Aroclor 1221	ND	19	ug/kg	SW846 8080A
Aroclor 1232	ND	19	ug/kg	SW846 8080A
Aroclor 1242	ND	19	ug/kg	SW846 8080A
Aroclor 1248	ND	19	ug/kg	SW846 8080A
Aroclor 1254	ND	37	ug/kg	SW846 8080A
Aroclor 1260	ND	37	ug/kg	SW846 8080A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	108	(8.0- 129)
Decachlorobiphenyl	98	(0.0- 138)

NOTE(S):

Results and reporting limits have been adjusted for dry weight

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB10(1-3')

TOTAL Metals

Lot-Sample #...: A7L170124-005 **Matrix.....:** SOLID
Date Sampled...: 12/13/97 12:00 **Date Received..:** 12/16/97
% Moisture.....: 11

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7356129						
Trivalent Chromium	ND	0.10	mg/L	SW846 7196A	12/22-12/29/97	CEKK810G

Dilution Factor: 1

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB10(1-3')

TCLP Metals

Lot-Sample #...: A7L170124-005 **Matrix.....:** SOLID
Date Sampled...: 12/13/97 12:00 **Date Received..:** 12/16/97
Leach Date.....: 12/23/97 **Leach Batch #..:** P735603

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7357176						
Silver	ND	0.50	mg/L	SW846 6010A	12/23-12/29/97	CEKK8103
		Dilution Factor: 1				
Arsenic	ND	0.50	mg/L	SW846 6010A	12/23-12/29/97	CEKK8104
		Dilution Factor: 1				
Barium	ND	10.0	mg/L	SW846 6010A	12/23-12/29/97	CEKK8105
		Dilution Factor: 1				
Cadmium	ND	0.10	mg/L	SW846 6010A	12/23-12/29/97	CEKK8106
		Dilution Factor: 1				
Chromium	ND	0.50	mg/L	SW846 6010A	12/23-12/29/97	CEKK8107
		Dilution Factor: 1				
Lead	ND	0.50	mg/L	SW846 6010A	12/23-12/29/97	CEKK8108
		Dilution Factor: 1				
Selenium	ND	0.25	mg/L	SW846 6010A	12/23-12/29/97	CEKK8109
		Dilution Factor: 1				
Copper	ND	1.0	mg/L	SW846 6010A	12/23-12/29/97	CEKK810A
		Dilution Factor: 1				
Nickel	ND	0.040	mg/L	SW846 6010A	12/23-12/29/97	CEKK810C
		Dilution Factor: 1				
Mercury	ND	0.0020	mg/L	SW846 7470A	12/23-12/29/97	CEKK810E
		Dilution Factor: 1				
Zinc	ND	1.0	mg/L	SW846 6010A	12/23-12/29/97	CEKK810D
		Dilution Factor: 1				

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB10(1-3')

General Chemistry

Lot-Sample #...: A7L170124-005 **Work Order #...:** CEKK8 **Matrix.....:** SOLID
Date Sampled...: 12/13/97 12:00 **Date Received..:** 12/16/97
% Moisture.....: 11

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
DI Leachable pH	**8.3**		**No Units**	**MCAWW 150.1**	**12/19/97**	**7352122**

Dilution Factor: 1

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB10(1-3')

TCLP General Chemistry

Lot-Sample #...: A7L170124-005 **Work Order #...:** CEKK8 **Matrix.....:** SOLID
Date Sampled...: 12/13/97 12:00 **Date Received..:** 12/16/97
% Moisture.....: 11 **Leach Date.....:** 12/31/97 **Leach Batch #..:** P736404

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium	ND	0.02	mg/L	SW846 7196A	12/31/97	7365134

Dilution Factor: 1

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB10(1-3')

General Chemistry

Lot-Sample #...: A7L170124-005 **Work Order #...:** CEKK8 **Matrix.....:** SOLID
Date Sampled...: 12/13/97 12:00 **Date Received..:** 12/16/97
% Moisture.....: 11

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Ignitability	**NEG**		**No Units**	**SW846 SECTION 7.1**	**12/30/97**	**7364198**
	Dilution Factor: 1					
Paint Filter Test	**NEG**		**No Units**	**SW846 9095**	**12/18/97**	**7352163**
	Dilution Factor: 1					
Percent Solids	**88.9**	**0.10**	**%**	**MCAWW 160.3 MOD**	**12/18-12/19/97**	**7352121**
	Dilution Factor: 1					
Reactive Cyanide	ND	230	mg/kg	SW846 7.3.3	12/18/97	7352201
	Dilution Factor: 1					
Reactive Sulfide	ND	230	mg/kg	SW846 7.3.4	12/18/97	7352200
	Dilution Factor: 1					
Specific Gravity	**0.98**		**No Units**	**SM18 2710 F**	**12/30/97**	**7364206**
	Dilution Factor: 1					
Total Halogens	ND	0.10	%	ASTM D 2361-91	01/09-01/12/98	8009181
	Dilution Factor: 1					

NOTE(S):

RL Reporting Limit

NEG Negative

Results and reporting limits have been adjusted for dry weight

QUALITY CONTROL SECTION

QUALITY CONTROL ELEMENTS OF SW-846 METHODS

Quanterra® Incorporated conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. Quanterra requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples. These QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. The only exception is that if the LCS recoveries are biased high and the associated sample is ND for the parameter(s) of interest, the batch is acceptable

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs) Failure of the RPDs to fall within the laboratory-generated acceptance windows requires the repreparation and reanalysis of all samples in the QC batch. The only exception is that if the MS/MSD RPDs are within acceptance criteria, the batch is acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except for the common laboratory contaminants indicated below

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals
Methylene chloride	Phthalate Esters	Copper
Acetone		Iron
2-Butanone		Zinc
		Lead*

* *for analyses run on TJA Trace ICP or GFAA only*

QUALITY CONTROL ELEMENTS OF SW-846 METHODS (continued)

METHOD BLANK (continued)

The listed volatile and semivolatile compounds may be present in concentrations up to 5 times the reporting limits. The listed metals may be present in concentrations up to 2 times the reporting limit or must be twenty fold less than the results of the environmental samples. Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. When these values fail to meet acceptance criteria, the data is reviewed to determine the cause. If, in the analyst's judgment, sample matrix effects are indicated, no corrective action is performed. Otherwise, the MS/MSD and the environmental sample used to prepare them are reprepared and reanalyzed.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD.. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample are spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system

The acceptance criteria do not apply to samples that are diluted. If the dilution is more than 5X, the recoveries will be reported as diluted out All other surrogate recoveries will be reported. If the LCS, LCSD, or the Method Blank surrogates fail to meet recovery criteria (exception for dilutions), the entire batch of samples is reprepared and reanalyzed

If the surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank and the associated sample(s) are ND, the batch is acceptable If the surrogate recoveries are outside criteria for environmental or MS/MSD samples, the batch may be acceptable based on the analyst's judgment that sample matrix effects are indicated.

For the GC/MS BNA methods, the surrogate criteria is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide/PCB, PAH, TPH, and Herbicide methods, the surrogate criteria is that one of two surrogate compounds meet acceptance criteria

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A7L170124 **Work Order #...:** CEPLD102 **Matrix.....:** SOLID
LCS Lot-Sample#: A7L280000-109
Prep Date.....: 12/26/97 **Analysis Date..:** 12/26/97
Prep Batch #...: 7362109
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	99	(60 - 119)	SW846 8260A
Trichloroethene	92	(74 - 115)	SW846 8260A
Chlorobenzene	94	(85 - 116)	SW846 8260A
Toluene	93	(87 - 118)	SW846 8260A
Benzene	96	(83 - 118)	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	88	(61 - 115)
Toluene-d8	93	(82 - 129)
Bromofluorobenzene	92	(64 - 112)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A7L170124 **Work Order #...:** CEPRH102 **Matrix.....:** SOLID
LCS Lot-Sample#: A7L290000-196
Prep Date.....: 12/23/97 **Analysis Date..:** 12/24/97
Prep Batch #...: 7363196
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	91	(60 - 119)	SW846 8260A
Trichloroethene	103	(74 - 115)	SW846 8260A
Chlorobenzene	103	(85 - 116)	SW846 8260A
Toluene	100	(87 - 118)	SW846 8260A
Benzene	101	(83 - 118)	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	88	(61 - 115)
Toluene-d8	96	(82 - 129)
Bromofluorobenzene	90	(64 - 112)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A7L170124 **Work Order #...:** CEP5W102 **Matrix.....:** WATER
LCS Lot-Sample#: A7L240000-160
Prep Date.....: 12/24/97 **Analysis Date..:** 12/24/97
Prep Batch #...: 7358160
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	102	(60 - 109)	SW846 8260A
Trichloroethene	101	(75 - 119)	SW846 8260A
Chlorobenzene	102	(76 - 120)	SW846 8260A
Toluene	106	(76 - 119)	SW846 8260A
Benzene	102	(73 - 118)	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	109	(73 - 115)
Toluene-d8	98	(90 - 110)
Bromofluorobenzene	100	(87 - 110)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A7L170124 **Work Order #...:** CEP99101 **Matrix.....:** SOLID
LCS Lot-Sample#: A7L240000-177
Prep Date.....: 01/05/98 **Analysis Date..:** 01/05/98
Prep Batch #...: 7358177
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethylene	103	(60 - 119)	SW846 8260A
Trichloroethylene	107	(74 - 115)	SW846 8260A
Chlorobenzene	109	(85 - 116)	SW846 8260A
Benzene	108	(83 - 118)	SW846 8260A
Toluene	129 a	(87 - 118)	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	105	(61 - 115)
Toluene-d8	96	(82 - 129)
Bromofluorobenzene	90	(64 - 112)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

a Spiked analyte recovery is outside stated control limits

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A7L170124 **Work Order #...:** CEPLV102 **Matrix.....:** SOLID
LCS Lot-Sample#: A7L290000-111
Prep Date.....: 12/29/97 **Analysis Date..:** 01/02/98
Prep Batch #...: 7363111
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,4-Dichlorobenzene	62	(34 - 113)	SW846 8270B
2,4-Dinitrotoluene	68	(41 - 154)	SW846 8270B
Hexachlorobenzene	73	(57 - 118)	SW846 8270B
Hexachlorobutadiene	50	(44 - 104)	SW846 8270B
Hexachloroethane	58	(39 - 96)	SW846 8270B
Nitrobenzene	66	(49 - 111)	SW846 8270B
Pentachlorophenol	54	(24 - 145)	SW846 8270B
Pyridine	41	(0.0- 99)	SW846 8270B
2,4,5-Trichlorophenol	53	(43 - 118)	SW846 8270B
2,4,6-Trichlorophenol	65	(45 - 102)	SW846 8270B
Cresols (total)	70	(46 - 109)	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	69	(44 - 110)
2-Fluorobiphenyl	70	(50 - 105)
Terphenyl-d14	106	(11 - 158)
Phenol-d5	66	(0.0- 131)
2-Fluorophenol	70	(0.0- 130)
2,4,6-Tribromophenol	71	(0.0- 156)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A7L170124 **Work Order #...:** CEKRE102 **Matrix.....:** SOLID
LCS Lot-Sample#: A7L170000-251
Prep Date.....: 12/17/97 **Analysis Date..:** 12/23/97
Prep Batch #...: 7351251
Dilution Factor: 5

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Aroclor 1016	104	(60 - 133)	SW846 8080A
Aroclor 1260	105	(59 - 129)	SW846 8080A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	109	(8.0- 129)
Decachlorobiphenyl	97	(0.0- 138)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TCLP Metals

Client Lot #...: A7L170124 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A7L230000-176 **Prep Batch #...:** 7357176					
Arsenic	106	(50 - 150)	SW846 6010A	12/23-12/29/97	CENNF10C
		Dilution Factor: 1			
Barium	95	(50 - 150)	SW846 6010A	12/23-12/29/97	CENNF10D
		Dilution Factor: 1			
Cadmium	99	(50 - 150)	SW846 6010A	12/23-12/29/97	CENNF10E
		Dilution Factor: 1			
Chromium	105	(50 - 150)	SW846 6010A	12/23-12/29/97	CENNF10F
		Dilution Factor: 1			
Lead	105	(50 - 150)	SW846 6010A	12/23-12/29/97	CENNF10G
		Dilution Factor: 1			
Selenium	100	(50 - 150)	SW846 6010A	12/23-12/29/97	CENNF10H
		Dilution Factor: 1			
Silver	99	(50 - 150)	SW846 6010A	12/23-12/29/97	CENNF10J
		Dilution Factor: 1			
Copper	96	(50 - 150)	SW846 6010A	12/23-12/29/97	CENNF10K
		Dilution Factor: 1			
Zinc	104	(50 - 150)	SW846 6010A	12/23-12/29/97	CENNF10L
		Dilution Factor: 1			
Nickel	105	(50 - 150)	SW846 6010A	12/23-12/29/97	CENNF10Q
		Dilution Factor: 1			
Mercury	109	(50 - 150)	SW846 7470A	12/23-12/29/97	CENNF10R
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A7L170124 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium		Work Order #: CEQC9102	LCS Lot-Sample#: A7L310000-134		
	104	(75 - 125)	SW846 7196A	12/31/97	7365134
		Dilution Factor: 1			
Total Halogens		Work Order #: CEV0V102	LCS Lot-Sample#: A8A090000-181		
	90	(75 - 125)	ASTM D 2361-91	01/09-01/12/98	8009181
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

TCLP GC/MS Volatiles

Client Lot #...: A7L170124 **Work Order #...:** CENN4101 **Matrix.....:** SOLID
MB Lot-Sample #: A7L230000-171
Leach Date.....: 12/24/97 **Prep Date.....:** 01/05/98 **Analysis Date..:** 01/05/98
Leach Batch #..: P735702 **Prep Batch #...:** 7358177
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	0.025	mg/L	SW846 8260A
Carbon tetrachloride	ND	0.025	mg/L	SW846 8260A
Chlorobenzene	ND	0.025	mg/L	SW846 8260A
Chloroform	ND	0.025	mg/L	SW846 8260A
1,2-Dichloroethane	ND	0.025	mg/L	SW846 8260A
1,1-Dichloroethylene	ND	0.070	mg/L	SW846 8260A
Methyl ethyl ketone	ND	0.050	mg/L	SW846 8260A
Tetrachloroethylene	ND	0.025	mg/L	SW846 8260A
Trichloroethylene	ND	0.025	mg/L	SW846 8260A
Vinyl chloride	ND	0.050	mg/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	103	(61 - 115)
Toluene-d8	97	(82 - 129)
Bromofluorobenzene	91	(64 - 112)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A7L170124 **Work Order #...:** CEPLD101 **Matrix.....:** SOLID
MB Lot-Sample #: A7L280000-109

Prep Date.....: 12/26/97
Analysis Date..: 12/26/97 **Prep Batch #...:** 7362109
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acrolein	ND	100	ug/kg	SW846 8260A
Acrylonitrile	ND	100	ug/kg	SW846 8260A
Benzene	ND	5.0	ug/kg	SW846 8260A
Bromoform	ND	5.0	ug/kg	SW846 8260A
Bromomethane	ND	10	ug/kg	SW846 8260A
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260A
Chlorobenzene	ND	5.0	ug/kg	SW846 8260A
Chlorodibromomethane	ND	5.0	ug/kg	SW846 8260A
Chloroethane	ND	10	ug/kg	SW846 8260A
Chloroform	ND	5.0	ug/kg	SW846 8260A
Chloromethane	ND	10	ug/kg	SW846 8260A
Dichlorobromomethane	ND	5.0	ug/kg	SW846 8260A
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloroethene (total)	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260A
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
Ethylbenzene	ND	5.0	ug/kg	SW846 8260A
Methylene chloride	ND	5.0	ug/kg	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260A
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260A
Toluene	ND	5.0	ug/kg	SW846 8260A
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
Trichloroethene	ND	5.0	ug/kg	SW846 8260A
Vinyl chloride	ND	10	ug/kg	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	87	(61 - 115)
Toluene-d8	92	(82 - 129)
Bromofluorobenzene	93	(64 - 112)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A7L170124 **Work Order #...:** CEPRH101 **Matrix.....:** SOLID
MB Lot-Sample #: A7L290000-196

Prep Date.....: 12/23/97
Analysis Date..: 12/24/97 **Prep Batch #...:** 7363196
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acrolein	ND	12000	ug/kg	SW846 8260A
Acrylonitrile	ND	12000	ug/kg	SW846 8260A
Benzene	ND	620	ug/kg	SW846 8260A
Bromoform	ND	620	ug/kg	SW846 8260A
Bromomethane	ND	1200	ug/kg	SW846 8260A
Carbon tetrachloride	ND	620	ug/kg	SW846 8260A
Chlorobenzene	ND	620	ug/kg	SW846 8260A
Chlorodibromomethane	ND	620	ug/kg	SW846 8260A
Chloroethane	ND	1200	ug/kg	SW846 8260A
Chloroform	ND	620	ug/kg	SW846 8260A
Chloromethane	ND	1200	ug/kg	SW846 8260A
Dichlorobromomethane	ND	620	ug/kg	SW846 8260A
1,1-Dichloroethane	ND	620	ug/kg	SW846 8260A
1,2-Dichloroethane	ND	620	ug/kg	SW846 8260A
1,1-Dichloroethene	ND	620	ug/kg	SW846 8260A
1,2-Dichloroethene (total)	ND	620	ug/kg	SW846 8260A
1,2-Dichloropropane	ND	620	ug/kg	SW846 8260A
cis-1,3-Dichloropropene	ND	620	ug/kg	SW846 8260A
trans-1,3-Dichloropropene	ND	620	ug/kg	SW846 8260A
Ethylbenzene	ND	620	ug/kg	SW846 8260A
Methylene chloride	ND	620	ug/kg	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	620	ug/kg	SW846 8260A
Tetrachloroethene	ND	620	ug/kg	SW846 8260A
Toluene	ND	620	ug/kg	SW846 8260A
1,1,1-Trichloroethane	ND	620	ug/kg	SW846 8260A
1,1,2-Trichloroethane	ND	620	ug/kg	SW846 8260A
Trichloroethene	ND	620	ug/kg	SW846 8260A
Vinyl chloride	ND	1200	ug/kg	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	90	(61 - 115)
Toluene-d8	96	(82 - 129)
Bromofluorobenzene	92	(64 - 112)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A7L170124 **Work Order #...:** CEP5W101 **Matrix.....:** WATER
MB Lot-Sample #: A7L240000-160

Prep Date.....: 12/24/97
Analysis Date..: 12/24/97 **Prep Batch #...:** 7358160
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acrolein	ND	100	ug/L	SW846 8260A
Acrylonitrile	ND	100	ug/L	SW846 8260A
Benzene	ND	5.0	ug/L	SW846 8260A
Bromoform	ND	5.0	ug/L	SW846 8260A
Bromomethane	ND	10	ug/L	SW846 8260A
Carbon tetrachloride	ND	5.0	ug/L	SW846 8260A
Chlorobenzene	ND	5.0	ug/L	SW846 8260A
Chlorodibromomethane	ND	5.0	ug/L	SW846 8260A
Chloroethane	ND	10	ug/L	SW846 8260A
Chloroform	ND	5.0	ug/L	SW846 8260A
Chloromethane	ND	10	ug/L	SW846 8260A
Dichlorobromomethane	ND	5.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	5.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	5.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	5.0	ug/L	SW846 8260A
1,2-Dichloroethene (total)	ND	5.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	5.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	5.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	5.0	ug/L	SW846 8260A
Ethylbenzene	ND	5.0	ug/L	SW846 8260A
Methylene chloride	ND	5.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	SW846 8260A
Tetrachloroethene	ND	5.0	ug/L	SW846 8260A
Toluene	ND	5.0	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	5.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	5.0	ug/L	SW846 8260A
Trichloroethene	ND	5.0	ug/L	SW846 8260A
Vinyl chloride	ND	10	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	103	(73 - 115)
Toluene-d8	95	(90 - 110)
Bromofluorobenzene	97	(87 - 110)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

METHOD BLANK REPORT

TCLP GC/MS Semivolatiles

Client Lot #...: A7L170124 **Work Order #...:** CEPLV101 **Matrix.....:** SOLID
MB Lot-Sample #: A7L290000-111
Leach Date.....: 12/23/97 **Prep Date.....:** 12/29/97 **Analysis Date..:** 01/02/98
Leach Batch #..: P735603 **Prep Batch #...:** 7363111
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Nitrobenzene	ND	0.050	mg/L	SW846 8270B
Pentachlorophenol	ND	0.25	mg/L	SW846 8270B
Pyridine	ND	0.10	mg/L	SW846 8270B
2,4,5-Trichlorophenol	ND	0.25	mg/L	SW846 8270B
2,4,6-Trichlorophenol	ND	0.050	mg/L	SW846 8270B
m-Cresol & p-Cresol	ND	0.10	mg/L	SW846 8270B
1,4-Dichlorobenzene	ND	0.050	mg/L	SW846 8270B
2,4-Dinitrotoluene	ND	0.050	mg/L	SW846 8270B
Hexachlorobenzene	ND	0.050	mg/L	SW846 8270B
Hexachlorobutadiene	ND	0.050	mg/L	SW846 8270B
Hexachloroethane	ND	0.050	mg/L	SW846 8270B
o-Cresol	ND	0.050	mg/L	SW846 8270B
Phenol	ND	0.050	mg/L	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	73	(44 - 110)
2-Fluorobiphenyl	73	(50 - 105)
Terphenyl-d14	116	(11 - 158)
Phenol-d5	68	(0.0- 131)
2-Fluorophenol	76	(0.0- 130)
2,4,6-Tribromophenol	66	(0.0- 156)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: A7L170124 **Work Order #...:** CEKRE101 **Matrix.....:** SOLID
MB Lot-Sample #: A7L170000-251

Prep Date.....: 12/17/97
Analysis Date..: 12/23/97 **Prep Batch #...:** 7351251
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	17	ug/kg	SW846 8080A
Aroclor 1221	ND	17	ug/kg	SW846 8080A
Aroclor 1232	ND	17	ug/kg	SW846 8080A
Aroclor 1242	ND	17	ug/kg	SW846 8080A
Aroclor 1248	ND	17	ug/kg	SW846 8080A
Aroclor 1254	ND	33	ug/kg	SW846 8080A
Aroclor 1260	ND	33	ug/kg	SW846 8080A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	97	(8.0- 129)
Decachlorobiphenyl	85	(0.0- 138)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

METHOD BLANK REPORT

TCLP Metals

Client Lot #...: A7L170124 **Matrix.....:** SOLID

MB Lot-Sample #: A7L220000-213 **Prep Batch #...:** 7357176
Leach Date.....: 12/23/97 **Leach Batch #..:** P735603

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	ND	0.50	mg/L	SW846 6010A	12/23-12/29/97	CENC0105
		Dilution Factor: 1				
Arsenic	ND	0.50	mg/L	SW846 6010A	12/23-12/29/97	CENC0106
		Dilution Factor: 1				
Barium	ND	10.0	mg/L	SW846 6010A	12/23-12/29/97	CENC0107
		Dilution Factor: 1				
Cadmium	ND	0.10	mg/L	SW846 6010A	12/23-12/29/97	CENC0108
		Dilution Factor: 1				
Chromium	ND	0.50	mg/L	SW846 6010A	12/23-12/29/97	CENC0109
		Dilution Factor: 1				
Lead	ND	0.50	mg/L	SW846 6010A	12/23-12/29/97	CENC010A
		Dilution Factor: 1				
Selenium	ND	0.25	mg/L	SW846 6010A	12/23-12/29/97	CENC010C
		Dilution Factor: 1				
Copper	ND	1.0	mg/L	SW846 6010A	12/23-12/29/97	CENC0101
		Dilution Factor: 1				
Nickel	ND	0.040	mg/L	SW846 6010A	12/23-12/29/97	CENC0102
		Dilution Factor: 1				
Mercury	ND	0.0020	mg/L	SW846 7470A	12/23-12/29/97	CENC0104
		Dilution Factor: 1				
Zinc	ND	1.0	mg/L	SW846 6010A	12/23-12/29/97	CENC0103
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

METHOD BLANK REPORT

TCLP Metals

Client Lot #...: A7L170124 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A7L230000-176 **Prep Batch #...:** 7357176						
Silver	ND	0.50	mg/L	SW846 6010A	12/23-12/29/97	CENNF107
		Dilution Factor: 1				
Arsenic	ND	0.50	mg/L	SW846 6010A	12/23-12/29/97	CENNF101
		Dilution Factor: 1				
Barium	ND	10.0	mg/L	SW846 6010A	12/23-12/29/97	CENNF102
		Dilution Factor: 1				
Cadmium	ND	0.10	mg/L	SW846 6010A	12/23-12/29/97	CENNF103
		Dilution Factor: 1				
Chromium	ND	0.50	mg/L	SW846 6010A	12/23-12/29/97	CENNF104
		Dilution Factor: 1				
Lead	ND	0.50	mg/L	SW846 6010A	12/23-12/29/97	CENNF105
		Dilution Factor: 1				
Selenium	ND	0.25	mg/L	SW846 6010A	12/23-12/29/97	CENNF106
		Dilution Factor: 1				
Copper	ND	1.0	mg/L	SW846 6010A	12/23-12/29/97	CENNF108
		Dilution Factor: 1				
Nickel	ND	0.040	mg/L	SW846 6010A	12/23-12/29/97	CENNF10N
		Dilution Factor: 1				
Mercury	ND	0.0020	mg/L	SW846 7470A	12/23-12/29/97	CENNF10P
		Dilution Factor: 1				
Zinc	ND	1.0	mg/L	SW846 6010A	12/23-12/29/97	CENNF109
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A7L170124 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids		Work Order #:	CEL5M101	MB Lot-Sample #:	A7L180000-121	
	ND	0.10	%	MCAWW 160.3 MOD	12/18-12/19/97	7352121
		Dilution Factor: 1				
Reactive Cyanide		Work Order #:	CELFM101	MB Lot-Sample #:	A7L180000-201	
	ND	200	mg/kg	SW846 7.3.3	12/18/97	7352201
		Dilution Factor: 1				
Reactive Sulfide		Work Order #:	CELFK101	MB Lot-Sample #:	A7L180000-200	
	ND	200	mg/kg	SW846 7.3.4	12/18/97	7352200
		Dilution Factor: 1				
Total Halogens		Work Order #:	CEV0V101	MB Lot-Sample #:	A8A090000-181	
	ND	0.10	%	ASTM D 2361-91	01/09-01/12/98	8009181
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A7L170124 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium		Work Order #: CEQC9101		MB Lot-Sample #:	A7L310000-134	
	ND	0.02	mg/L	SW846 7196A	12/31/97	7365134
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A7L170124 **Work Order #...:** CEKK510X-MS **Matrix.....:** SOLID
MS Lot-Sample #: A7L170124-004 CEKK5110-MSD
Date Sampled...: 12/13/97 10:50 **Date Received..:** 12/16/97
Prep Date.....: 12/26/97 **Analysis Date..:** 12/26/97
Prep Batch #...: 7362109
Dilution Factor: 1 **% Moisture.....:** 4.7

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	111	(78 - 117)			SW846 8260A
	106	(78 - 117)	4.4	(0-17)	SW846 8260A
Chlorobenzene	111	(81 - 115)			SW846 8260A
	104	(81 - 115)	6.8	(0-18)	SW846 8260A
1,1-Dichloroethene	109	(75 - 113)			SW846 8260A
	102	(75 - 113)	6.8	(0-20)	SW846 8260A
Toluene	108	(78 - 126)			SW846 8260A
	101	(78 - 126)	6.2	(0-24)	SW846 8260A
Trichloroethene	104	(71 - 110)			SW846 8260A
	98	(71 - 110)	6.4	(0-22)	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	94	(61 - 115)
	95	(61 - 115)
Toluene-d8	94	(82 - 129)
	94	(82 - 129)
Bromofluorobenzene	91	(64 - 112)
	92	(64 - 112)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

Results and reporting limits have been adjusted for dry weight

MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP GC/MS Volatiles

Client Lot #...: A7L170124 **Work Order #...:** CEKK5129-MS **Matrix.....:** SOLID
MS Lot-Sample #: A7L170124-004 CEKK512A-MSD
Date Sampled...: 12/13/97 10:50 **Date Received..:** 12/16/97
Leach Date.....: 12/24/97 **Prep Date.....:** 01/06/98 **Analysis Date..:** 01/06/98
Leach Batch #..: P735702 **Prep Batch #...:** 7358177
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	101	(78 - 117)			SW846 8260A
	102	(78 - 117)	1.0	(0-17)	SW846 8260A
Chlorobenzene	103	(81 - 115)			SW846 8260A
	104	(81 - 115)	0.37	(0-18)	SW846 8260A
1,1-Dichloroethylene	110	(75 - 113)			SW846 8260A
	111	(75 - 113)	0.99	(0-20)	SW846 8260A
Toluene	101	(78 - 126)			SW846 8260A
	104	(78 - 126)	2.6	(0-24)	SW846 8260A
Trichloroethylene	105	(71 - 110)			SW846 8260A
	108	(71 - 110)	2.8	(0-22)	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	91	(61 - 115)
	92	(61 - 115)
Toluene-d8	97	(82 - 129)
	98	(82 - 129)
Bromofluorobenzene	89	(64 - 112)
	87	(64 - 112)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A7L170124 **Work Order #...:** CEMC910W-MS **Matrix.....:** SOLID
MS Lot-Sample #: A7L190146-006 CEMC910X-MSD
Date Sampled...: 12/17/97 08:05 **Date Received..:** 12/18/97
Prep Date.....: 12/23/97 **Analysis Date..:** 12/30/97
Prep Batch #...: 7363196
Dilution Factor: 3.33 **% Moisture.....:** 8.9

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	0.0 a	(75 - 113)			SW846 8260A
	0.0 a	(75 - 113)	0.0	(0-20)	SW846 8260A
Trichloroethene	905 a	(71 - 110)			SW846 8260A
	88 p	(71 - 110)	75	(0-22)	SW846 8260A
Chlorobenzene	0.0 a	(81 - 115)			SW846 8260A
	0.060 a	(81 - 115)	0.0	(0-18)	SW846 8260A
Toluene	48 a	(78 - 126)			SW846 8260A
	0.0 a	(78 - 126)	0.0	(0-24)	SW846 8260A
Benzene	3.6 a	(78 - 117)			SW846 8260A
	0.0 a	(78 - 117)	0.0	(0-17)	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	75 DIL	(61 - 115)
	75 DIL	(61 - 115)
Toluene-d8	91 DIL	(82 - 129)
	89 DIL	(82 - 129)
Bromofluorobenzene	79 DIL	(64 - 112)
	83 DIL	(64 - 112)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

a Spiked analyte recovery is outside stated control limits

Results and reporting limits have been adjusted for dry weight

p Relative percent difference (RPD) is outside stated control limits

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A7L170124 **Work Order #...:** CEMED102-MS **Matrix.....:** WATER
MS Lot-Sample #: A7L190161-005 CEMED103-MSD
Date Sampled...: 12/13/97 08:46 **Date Received..:** 12/19/97
Prep Date.....: 12/24/97 **Analysis Date..:** 12/24/97
Prep Batch #...: 7358160
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	95	(75 - 113)			SW846 8260A
	101	(75 - 113)	6.6	(0-20)	SW846 8260A
Trichloroethene	98	(71 - 110)			SW846 8260A
	97	(71 - 110)	1.2	(0-22)	SW846 8260A
Chlorobenzene	100	(81 - 115)			SW846 8260A
	99	(81 - 115)	1.3	(0-18)	SW846 8260A
Toluene	106	(78 - 126)			SW846 8260A
	101	(78 - 126)	4.1	(0-24)	SW846 8260A
Benzene	104	(78 - 117)			SW846 8260A
	104	(78 - 117)	0.83	(0-17)	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	111	(73 - 115)
	109	(73 - 115)
Toluene-d8	98	(90 - 110)
	98	(90 - 110)
Bromofluorobenzene	102	(87 - 110)
	101	(87 - 110)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP GC/MS Semivolatiles

Client Lot #...: A7L170124
MS Lot-Sample #: A7L170124-004
Date Sampled...: 12/13/97 10:50
Leach Date.....: 12/23/97
Leach Batch #..: P735603
Dilution Factor: 1

Work Order #...: CEKK512E-MS
CEKK512F-MSD
Date Received..: 12/16/97
Prep Date.....: 12/29/97
Prep Batch #...: 7363111

Matrix.....: SOLID
Analysis Date..: 01/02/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Cresols (total)	48	(22 - 115)			SW846 8270B
	74	(22 - 115)	43	(0-43)	SW846 8270B
Nitrobenzene	57	(40 - 118)			SW846 8270B
	72	(40 - 118)	24	(0-25)	SW846 8270B
Pentachlorophenol	73	(10 - 148)			SW846 8270B
	75	(10 - 148)	3.4	(0-75)	SW846 8270B
Pyridine	42	(22 - 96)			SW846 8270B
	44	(22 - 96)	5.2	(0-52)	SW846 8270B
2,4,5-Trichlorophenol	59	(25 - 136)			SW846 8270B
	59	(25 - 136)	0.37	(0-62)	SW846 8270B
2,4,6-Trichlorophenol	50	(20 - 127)			SW846 8270B
	64	(20 - 127)	25	(0-55)	SW846 8270B
1,4-Dichlorobenzene	55	(34 - 105)			SW846 8270B
	76 p	(34 - 105)	32	(0-21)	SW846 8270B
2,4-Dinitrotoluene	77	(10 - 154)			SW846 8270B
	86	(10 - 154)	11	(0-42)	SW846 8270B
Hexachlorobenzene	77	(33 - 123)			SW846 8270B
	82	(33 - 123)	7.0	(0-23)	SW846 8270B
Hexachlorobutadiene	52	(27 - 107)			SW846 8270B
	66 p	(27 - 107)	25	(0-24)	SW846 8270B
Hexachloroethane	53	(24 - 107)			SW846 8270B
	72 p	(24 - 107)	31	(0-20)	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	60	(44 - 110)
	78	(44 - 110)
2-Fluorobiphenyl	67	(50 - 105)
	86	(50 - 105)
Terphenyl-d14	118	(11 - 158)
	118	(11 - 158)
Phenol-d5	38	(0.0- 131)
	56	(0.0- 131)
2-Fluorophenol	38	(0.0- 130)
	48	(0.0- 130)
2,4,6-Tribromophenol	66	(0.0- 156)
	84	(0.0- 156)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

p Relative percent difference (RPD) is outside stated control limits

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A7L170124 **Work Order #...:** CEKK512C-MS **Matrix.....:** SOLID
MS Lot-Sample #: A7L170124-004 CEKK512D-MSD
Date Sampled...: 12/13/97 10:50 **Date Received..:** 12/16/97
Prep Date.....: 12/17/97 **Analysis Date..:** 12/23/97
Prep Batch #...: 7351251
Dilution Factor: 5 **% Moisture.....:** 4.7

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	**118**	**(44 - 139)**			**SW846 8080A**
	119	**(44 - 139)**	**0.15**	**(0-28)**	**SW846 8080A**
Aroclor 1260	**113**	**(44 - 139)**			**SW846 8080A**
	108	**(44 - 139)**	**4.0**	**(0-28)**	**SW846 8080A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	113	(8.0- 129)
	116	(8.0- 129)
Decachlorobiphenyl	110	(0.0- 138)
	102	(0.0- 138)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight

MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP Metals

Client Lot #...: A7L170124 **Matrix.....:** SOLID
Date Sampled...: 12/15/97 16:50 **Date Received..:** 12/16/97

MS Lot-Sample #: A7L170124-004 **Prep Batch #...:** 7357176
Leach Date.....: 12/23/97 **Leach Batch #..:** P735603

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	114	(50 - 150)			SW846 6010A	12/23-12/29/97	CEKK5111
	119	(50 - 150)	4.2	(0-20)	SW846 6010A	12/23-12/29/97	CEKK5112
		Dilution Factor: 1					
Arsenic	108	(50 - 150)			SW846 6010A	12/23-12/29/97	CEKK5113
	112	(50 - 150)	3.0	(0-20)	SW846 6010A	12/23-12/29/97	CEKK5114
		Dilution Factor: 1					
Barium	102	(50 - 150)			SW846 6010A	12/23-12/29/97	CEKK5115
	106	(50 - 150)	3.6	(0-20)	SW846 6010A	12/23-12/29/97	CEKK5116
		Dilution Factor: 1					
Cadmium	98	(50 - 150)			SW846 6010A	12/23-12/29/97	CEKK5117
	102	(50 - 150)	3.7	(0-20)	SW846 6010A	12/23-12/29/97	CEKK5118
		Dilution Factor: 1					
Chromium	104	(50 - 150)			SW846 6010A	12/23-12/29/97	CEKK5119
	106	(50 - 150)	2.4	(0-20)	SW846 6010A	12/23-12/29/97	CEKK511A
		Dilution Factor: 1					
Lead	98	(50 - 150)			SW846 6010A	12/23-12/29/97	CEKK511C
	100	(50 - 150)	2.0	(0-20)	SW846 6010A	12/23-12/29/97	CEKK511D
		Dilution Factor: 1					
Selenium	95	(50 - 150)			SW846 6010A	12/23-12/29/97	CEKK511E
	90	(50 - 150)	4.8	(0-20)	SW846 6010A	12/23-12/29/97	CEKK511F
		Dilution Factor: 1					
Copper	102	(50 - 150)			SW846 6010A	12/23-12/29/97	CEKK511G
	105	(50 - 150)	2.3	(0-20)	SW846 6010A	12/23-12/29/97	CEKK511H
		Dilution Factor: 1					
Nickel	101	(50 - 150)			SW846 6010A	12/23-12/29/97	CEKK511J
	105	(50 - 150)	4.0	(0-20)	SW846 6010A	12/23-12/29/97	CEKK511K
		Dilution Factor: 1					
Mercury	105	(50 - 150)			SW846 7470A	12/23-12/29/97	CEKK511N
	101	(50 - 150)	3.6	(0-20)	SW846 7470A	12/23-12/29/97	CEKK511P
		Dilution Factor: 1					
Zinc	98	(50 - 150)			SW846 6010A	12/23-12/29/97	CEKK511L
	105	(50 - 150)	4.9	(0-20)	SW846 6010A	12/23-12/29/97	CEKK511M
		Dilution Factor: 1					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP Metals

Client Lot #...: A7L170124 **Matrix.....:** SOLID
Date Sampled...: 12/15/97 16:50 **Date Received..:** 12/16/97

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A7L170124 **Matrix.....:** SOLID
Date Sampled...: 12/16/97 13:20 **Date Received..:** 12/17/97

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium		WO#:	CEKK512Q-MS/CEKK512R-MSD			MS Lot-Sample #:	A7L170124-004
	113	(75 - 125)			SW846 7196A	12/31/97	7365134
	105	(75 - 125)	7.3	(0-20)	SW846 7196A	12/31/97	7365134

Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A7L170124 **Work Order #...:** CEJCJ-SMP CEJCJ-DUP **Matrix.....:** SOLID

Date Sampled...: 12/11/97 13:20 **Date Received..:** 12/13/97

% Moisture.....: 4.2

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
DI Leachable pH						SD Lot-Sample #:	A7L150124-003	
	9.2	9.2	No Units	0.0	(0-20)	MCAWW 150.1	12/19/97	7352122

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A7L170124 **Work Order #...:** CEKJG-SMP CEKJG-DUP **Matrix.....:** SOLID

Date Sampled...: 12/16/97 13:51 **Date Received..:** 12/17/97

% Moisture.....: 23

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #:	A7L170128-003	
	77.5	71.9	%	7.4	(0-20)	MCAWW 160.3 MOD	12/18-12/19/97	7352121

Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A7L170124 **Work Order #...:** CEKKR-SMP **Matrix.....:** SOLID
CEKKR-DUP

Date Sampled...: 12/16/97 13:20 **Date Received..:** 12/17/97

% Moisture.....: 42

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #:	A7L170136-002	
	57.5	51.1	%	12	(0-20)	MCAWW 160.3 MOD	12/18-12/19/97	7352121

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A7L170124 **Work Order #...:** CEKK5-SMP CEKK5-DUP **Matrix.....:** SOLID

Date Sampled...: 12/13/97 10:50 **Date Received..:** 12/16/97

% Moisture.....: 4.7

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Halogens						SD Lot-Sample #:	A7L170124-004	
	ND	ND	%	0	(0-20)	ASTM D 2361-91	01/09-01/12/98	8009181
		Dilution Factor: 1						
Specific Gravity						SD Lot-Sample #:	A7L170124-004	
	1.5	1.5	No Units	2.5	(0-20)	SM18 2710 F	12/30/97/12/98	7364206
		Dilution Factor: 1						
Reactive Cyanide						SD Lot-Sample #:	A7L170124-004	
	ND	ND	mg/kg	0	(0-20)	SW846 7.3.3	12/18/97/12/98	7352201
		Dilution Factor: 1						
Reactive Sulfide						SD Lot-Sample #:	A7L170124-004	
	ND	ND	mg/kg	0	(0-20)	SW846 7.3.4	12/18/97/12/98	7352200
		Dilution Factor: 1						

CHRYSLER CORPORATION

Chain-of-Custody

00026 A

CompuChem 501 Madison Avenue Cary, NC 27513 Phone Number 1-800-833-5097 Fax Number (919) 379-4050	Project Name: Dayton Thermal Site Location: Dayton, OH Site Code: SC001 RFA Number: 4061770023A-F Chrysler PM: Gary Sanderson	Consultant: Lagette, Brashears & Graham, Inc. Address: 1210 W. County Rd E, Suite 700 St Paul, MN 55112 Consultant PM: Ken Vogel Phone: (612) 490-1405 Fax: -1006	

Turn-around Time Request:
24 calendar hrs
48 calendar hrs
10 days
28 days

Data Package Deliverables: (circle)
Chrysler Level 1
Chrysler Level 2
Other (specify)

Compound List-Parameter/Method/Bottle Type/Preservative

Matrix Codes
S - Soil
SW - Surface Water
GW - Groundwater
A - Air
Sed. - Sediment
O Other (specify) DI H2O

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	VOC 3 bottles HCl, 1 vial HCl	8270 PAH, 1 amber jar, none	8270 semi-vol, 1 amber jar, none	Metals (Total Hg, Pb, Cd, Cr), 1 poly jar, HNO3	Cyanide, 1 poly jar, NaOH	8270 CL (Total Hydrocarbons), 1 amber jar, none	8260 CL, 1 amber jar, none	Ch. 7, Sign, 1 amber jar, none	160 Res (Percent Solids Filtrable), 1 amber jar, none	8090 PPL, PCB-IC, 1 amber jar, none	Lab Use Only: Volatiles pH <2	Metals pH <2	Cyanide pH > 12	Other	Remarks
FB121392	12/13/92	1400	G	C	3	✓														Begin SOC 234B
TB121392	12/13/92	—	G	O	1	✓														
TB9 (3-5')	12/13/92	0930	G	S	3	✓	✓	✓	✓	✓	✓	✓	✓	✓						Analyses cont on COC #28
TB12 (5-7')		1030	G	S	5	✓	✓	✓	✓	✓	✓	✓	✓	✓						MS/MSD except 8260 VOC
TB10 (1-3')	↓	1200	G	S	3	✓	✓	✓	✓	✓	✓	✓	✓	✓						

Sampler(s) Kim S. Harper

Cooler ID # B175

Is RFA sampling complete? Yes No

Bottles Relinquished under Airbill No. Airborne Ex 6786319655

Samples Relinquished under Airbill No. Fed Ex 873787378 2

Temperature (corrected) ___ C

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact?
Kim S. Harper	12/15/92	4.00				Yes No
						Yes No
			Received for Laboratory by:	121697	0915	Yes No

Chrysler Corporation 800 Chrysler Drive, CIMS 482-00-51, Auburn Hills, Michigan 48326-2757

Distribution: White copy: Data package Yellow: Retained by laboratory Pink: Retained by sampler

Revision No. 1
Created September 23, 1992

Chain of Custody Record

Quanterra

(Chrysler)

Client	Leggette, Brashears & Graham / Compuchem
Address	1210 W. County Rd E, Suite 200
City	St. Paul
State	MN
Zip Code	55112
Project Name	Dayton Thermal
Contract/Purchase Order/Quote No	Site Code: SC001 RFA #: YCQP4700234-T
Project Manager	Gary Stanczuk
Telephone Number (Area Code) Fax Number	(612) 490-1405 / 1006
Site Contact	Ken Vogel / LBG
Carrier/Waybill Number	FedEx 873757 3874
Date	12/15/97
Lab Number	
Chain Of Custody Number	28574
Page	2 of 2

Sample I.D. No. and Description	Date	Time	Sample Type	Total Volume	Containers Type	Containers No	Preservative	Condition on Receipt	Analysis: 8270A, TCLP, Sick	Analysis: Grams	Analysis: TPD, Phenols	Analysis: Mod 8D VOC, HPLC
TB9 (3-5')	12/3/97	0930	soil	28 oz	WM jar	2	NONE		✓	✓	✓	✓
TB12 (5-7')	↓	1030	↓	68 oz	WM jar	4	↓		✓	✓	✓	✓
TB10 (1-3')	↓	1200	↓	28 oz	WM jar	2	↓		✓	✓	✓	✓
					END OF SOC 234B							

Special Instructions
Refer to RFA instructions sent to Compuchem labs, Before proceeding w/ analysis

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Turn Around Time Required
☒ Normal 10d ☐ Rush

QC Level Chrysler Level 1
☒ I. ☐ II. ☐ III.

Project Specific (Specify)
DAYTON THERMAL (Chrysler)

	Date	Time		Date	Time
1. Relinquished By: Kai S. Hansen	12/15/97	4:00pm	1. Received By		
2. Relinquished By			2. Received By: [signature]	121697	0915
3. Relinquished By			3. Received By		

Comments
Please also provide specific gravity analysis on each sample.

DISTRIBUTION: WHITE - Stays with Sample, CANARY - Returned to Client with Report; PINK - Field Copy

Quanterra Incorporated
4101 Shuffel Drive, NW
North Canton, Ohio 44720

330 497-9396 Telephone
330 497-0772 Fax

Quanterra
Environmental Services

EPA Region 5 Records Ctr.
350034

ANALYTICAL REPORT

PROJECT NO. YGQP97-00234-T

DAYTON THERMAL

Lot #: A7L150124

Cathy Dover

Compuchem Environmental

QUANTERRA INCORPORATED

Denise Pohl
for
Jeffrey C. Smith
Project Manager

January 15, 1998

CASE NARRATIVE

The following report contains the analytical results for five solid and two water samples submitted to Quanterra-North Canton by Compuchem Environmental from the Dayton Thermal Site, project number YGQP97-00234-T. The samples were received December 13, 1997, according to documented sample acceptance procedures, and were analyzed in accordance with Ohio Voluntary Action Program protocols (Lab Certification CL0024).

Quanterra-North Canton utilizes only USEPA approved methods and instrumentation in all analytical work. The samples presented in this report were analyzed for the parameters listed on the method reference page in accordance with the methods indicated. Preliminary results were provided by facsimile transmission to Cathy Dover on January 8, 1998.

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

Samples were received at the laboratory at a temperature of 1.2° C.

The sample dates on the chain-of-custody did not agree with the sample dates listed on the bottle labels. The sample dates on the chain-of-custody were used for log-in.

GC/MS VOLATILES

The matrix spike/matrix spike duplicate associated with batch 7345161 failed recovery criteria. The laboratory control sample associated with this batch was in control. This is believed to be a matrix effect; therefore, no further corrective action was taken.

Recoveries of Toluene were out high in the Laboratory control sample. No positive hits were detected in any of the samples.

Toluene was detected in the method blank associated with batch 7358177.

The matrix spike/matrix spike duplicate associated with batch 7353121 failed recovery criteria. The laboratory control sample associated with this batch was in control. This is believed to be a matrix effect; therefore, no further corrective action was taken.

Sample(s) which contain results between the MDL and the RL are flagged with "J". There is the possibility of false positive or misidentification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation will be performed only down to the standard reporting limit (SRL). The acceptance criteria for quality control criteria may not be met at these quantitation levels.

CASE NARRATIVE (continued)

GC/MS SEMIVOLATILES

The matrix spike/matrix spike duplicate associated with batch 7355101 exhibited RPDs and/or recoveries outside acceptance limits. However, since the associated method blank and laboratory control sample were in control, no corrective action was necessary.

The matrix spike/matrix spike duplicate associated with batch 7364109 exhibited RPDs and/or recoveries outside acceptance limits due to demonstrated matrix effect.

Sample TB4 (3-5') exhibited surrogate recoveries outside acceptance limits. Upon reextraction and reanalysis, the surrogates remained outside acceptance limits demonstrating a matrix effect.

METALS

Matrix spike/spike duplicate relative percent difference (RPD) exceeded the acceptance limits for some analytes. The imprecision may be attributed to sample heterogeneity. See the Matrix Spike Report for the affected analytes which will be flagged with "*".

GENERAL CHEMISTRY

Poor duplicate precision (high RPD) for the Sample/Sample Duplicate was observed for Total Halogens associated with sample TB1 (7-9') on batch 7353131. The imprecision may be attributed to sample heterogeneity.

ANALYTICAL METHODS SUMMARY

A7L150124

PARAMETER	ANALYTICAL METHOD
DI Leachable pH	MCAWW 150.1
Hexavalent Chromium	SW846 7196A
Ignitability	SW846 SECTION 7.1.2
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A
Method for Chlorine in Coal	ASTM D 2361-91
Organochlorine Pesticides and PCBs	SW846 8080A
Paint Filter Test	SW846 9095
Reactive Cyanide	SW846 7.3.3
Reactive Sulfide	SW846 7.3.4
Specific Gravity	SM18 2710 F
Total Residue as Percent Solids	MCAWW 160.3 MOD
Trivalent chromium	SW846 7196A
TCLP BNA's	SW846 8270B
TCLP Metals (ICP)	SW846 6010A
TCLP Volatiles	SW846 8260A
Volatile Organics by GC/MS	SW846 8260A

References:

ASTM Annual Book Of ASTM Standards.

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SM18 "Standard Methods for the Examination of Water and Wastewater", 18th Edition, 1992.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

A7L150124

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
CEJCE	001	FB121297	12/12/97	15:00
CEJCG	002	TRIP BLANK 121297	12/12/97	00:00
CEJCJ	003	TB1 (7-9')	12/11/97	13:20
CEJCN	004	TB3 (13-15')	12/11/97	09:40
CEJCP	005	TB4 (3-5')	12/12/97	14:00
CEJCQ	006	TB4 (14-16')	12/12/97	15:30
CEJCV	007	TB6 (3-5')	12/12/97	17:00

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

COMPUCHEM ENVIRONMENTAL

Client Sample ID: FB121297

GC/MS Volatiles

Lot-Sample #...: A7L150124-001 **Work Order #...:** CEJCE101 **Matrix.....:** WATER
Date Sampled...: 12/12/97 15:00 **Date Received..:** 12/13/97
Prep Date.....: 12/24/97 **Analysis Date..:** 12/24/97
Prep Batch #...: 7358160
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acrolein	ND	100	ug/L	SW846 8260A
Acrylonitrile	ND	100	ug/L	SW846 8260A
Benzene	ND	5.0	ug/L	SW846 8260A
Bromoform	ND	5.0	ug/L	SW846 8260A
Bromomethane	ND	10	ug/L	SW846 8260A
Carbon tetrachloride	ND	5.0	ug/L	SW846 8260A
Chlorobenzene	ND	5.0	ug/L	SW846 8260A
Chlorodibromomethane	ND	5.0	ug/L	SW846 8260A
Chloroethane	ND	10	ug/L	SW846 8260A
Chloroform	ND	5.0	ug/L	SW846 8260A
Chloromethane	ND	10	ug/L	SW846 8260A
Dichlorobromomethane	ND	5.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	5.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	5.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	5.0	ug/L	SW846 8260A
1,2-Dichloroethene (total)	ND	5.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	5.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	5.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	5.0	ug/L	SW846 8260A
Ethylbenzene	ND	5.0	ug/L	SW846 8260A
Methylene chloride	ND	5.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	SW846 8260A
Tetrachloroethene	ND	5.0	ug/L	SW846 8260A
Toluene	ND	5.0	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	5.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	5.0	ug/L	SW846 8260A
Trichloroethene	ND	5.0	ug/L	SW846 8260A
Vinyl chloride	ND	10	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	100	(73 - 115)
Toluene-d8	96	(90 - 110)
Bromofluorobenzene	97	(87 - 110)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TRIP BLANK 121297

GC/MS Volatiles

Lot-Sample #...: A7L150124-002 **Work Order #...:** CEJCG101 **Matrix.....:** WATER
Date Sampled...: 12/12/97 00:00 **Date Received..:** 12/13/97
Prep Date.....: 12/24/97 **Analysis Date..:** 12/24/97
Prep Batch #...: 7358160
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acrolein	ND	100	ug/L	SW846 8260A
Acrylonitrile	ND	100	ug/L	SW846 8260A
Benzene	ND	5.0	ug/L	SW846 8260A
Bromoform	ND	5.0	ug/L	SW846 8260A
Bromomethane	ND	10	ug/L	SW846 8260A
Carbon tetrachloride	ND	5.0	ug/L	SW846 8260A
Chlorobenzene	ND	5.0	ug/L	SW846 8260A
Chlorodibromomethane	ND	5.0	ug/L	SW846 8260A
Chloroethane	ND	10	ug/L	SW846 8260A
Chloroform	ND	5.0	ug/L	SW846 8260A
Chloromethane	ND	10	ug/L	SW846 8260A
Dichlorobromomethane	ND	5.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	5.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	5.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	5.0	ug/L	SW846 8260A
1,2-Dichloroethene (total)	ND	5.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	5.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	5.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	5.0	ug/L	SW846 8260A
Ethylbenzene	ND	5.0	ug/L	SW846 8260A
Methylene chloride	ND	5.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	SW846 8260A
Tetrachloroethene	ND	5.0	ug/L	SW846 8260A
Toluene	ND	5.0	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	5.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	5.0	ug/L	SW846 8260A
Trichloroethene	ND	5.0	ug/L	SW846 8260A
Vinyl chloride	ND	10	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	106	(73 - 115)
Toluene-d8	96	(90 - 110)
Bromofluorobenzene	97	(87 - 110)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB1 (7-9')

GC/MS Volatiles

Lot-Sample #...: A7L150124-003 **Work Order #...:** CEJCJ102 **Matrix.....:** SOLID
Date Sampled...: 12/11/97 13:20 **Date Received..:** 12/13/97
Prep Date.....: 12/18/97 **Analysis Date..:** 12/18/97
Prep Batch #...: 7353121
Dilution Factor: 1
% Moisture.....: 4.2

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acrolein	ND	100	ug/kg	SW846 8260A
Acrylonitrile	ND	100	ug/kg	SW846 8260A
Benzene	ND	5.2	ug/kg	SW846 8260A
Bromoform	ND	5.2	ug/kg	SW846 8260A
Bromomethane	ND	10	ug/kg	SW846 8260A
Carbon tetrachloride	ND	5.2	ug/kg	SW846 8260A
Chlorobenzene	ND	5.2	ug/kg	SW846 8260A
Chlorodibromomethane	ND	5.2	ug/kg	SW846 8260A
Chloroethane	ND	10	ug/kg	SW846 8260A
Chloroform	ND	5.2	ug/kg	SW846 8260A
Chloromethane	ND	10	ug/kg	SW846 8260A
Dichlorobromomethane	ND	5.2	ug/kg	SW846 8260A
1,1-Dichloroethane	ND	5.2	ug/kg	SW846 8260A
1,2-Dichloroethane	ND	5.2	ug/kg	SW846 8260A
1,1-Dichloroethene	ND	5.2	ug/kg	SW846 8260A
1,2-Dichloroethene (total)	ND	5.2	ug/kg	SW846 8260A
1,2-Dichloropropane	ND	5.2	ug/kg	SW846 8260A
cis-1,3-Dichloropropene	ND	5.2	ug/kg	SW846 8260A
trans-1,3-Dichloropropene	ND	5.2	ug/kg	SW846 8260A
Ethylbenzene	ND	5.2	ug/kg	SW846 8260A
Methylene chloride	**21**	**5.2**	**ug/kg**	**SW846 8260A**
1,1,2,2-Tetrachloroethane	ND	5.2	ug/kg	SW846 8260A
Tetrachloroethene	ND	5.2	ug/kg	SW846 8260A
Toluene	ND	5.2	ug/kg	SW846 8260A
1,1,1-Trichloroethane	ND	5.2	ug/kg	SW846 8260A
1,1,2-Trichloroethane	ND	5.2	ug/kg	SW846 8260A
Trichloroethene	ND	5.2	ug/kg	SW846 8260A
Vinyl chloride	ND	10	ug/kg	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	105	(61 - 115)
Toluene-d8	94	(82 - 129)
Bromofluorobenzene	90	(64 - 112)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB1 (7-9')

TCLP GC/MS Volatiles

Lot-Sample #...: A7L150124-003 **Work Order #...:** CEJCJ10P **Matrix.....:** SOLID
Date Sampled...: 12/11/97 13:20 **Date Received..:** 12/13/97
Leach Date.....: 12/24/97 **Prep Date.....:** 01/05/98 **Analysis Date..:** 01/05/98
Leach Batch #..: P735702 **Prep Batch #...:** 7358177
Dilution Factor: 1
% Moisture.....: 4.2

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	0.025	mg/L	SW846 8260A
Carbon tetrachloride	ND	0.025	mg/L	SW846 8260A
Chlorobenzene	ND	0.025	mg/L	SW846 8260A
Chloroform	ND	0.025	mg/L	SW846 8260A
1,2-Dichloroethane	ND	0.025	mg/L	SW846 8260A
1,1-Dichloroethylene	ND	0.070	mg/L	SW846 8260A
Methyl ethyl ketone	ND	0.050	mg/L	SW846 8260A
Tetrachloroethylene	ND	0.025	mg/L	SW846 8260A
Trichloroethylene	ND	0.025	mg/L	SW846 8260A
Vinyl chloride	ND	0.050	mg/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	105	(61 - 115)
Toluene-d8	95	(82 - 129)
Bromofluorobenzene	92	(64 - 112)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB1 (7-9')

TCLP GC/MS Semivolatiles

Lot-Sample #...: A7L150124-003 **Work Order #...:** CEJCJ10R **Matrix.....:** SOLID
Date Sampled...: 12/11/97 13:20 **Date Received..:** 12/13/97
Leach Date.....: 12/19/97 **Prep Date.....:** 12/21/97 **Analysis Date..:** 12/26/97
Leach Batch #..: P735203 **Prep Batch #...:** 7355101
Dilution Factor: 1
% Moisture.....: 4.2

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Nitrobenzene	ND	0.050	mg/L	SW846 8270B
Pentachlorophenol	ND	0.25	mg/L	SW846 8270B
Pyridine	ND	0.10	mg/L	SW846 8270B
2,4,5-Trichlorophenol	ND	0.25	mg/L	SW846 8270B
2,4,6-Trichlorophenol	ND	0.050	mg/L	SW846 8270B
m-Cresol & p-Cresol	ND	0.10	mg/L	SW846 8270B
1,4-Dichlorobenzene	ND	0.050	mg/L	SW846 8270B
2,4-Dinitrotoluene	ND	0.050	mg/L	SW846 8270B
Hexachlorobenzene	ND	0.050	mg/L	SW846 8270B
Hexachlorobutadiene	ND	0.050	mg/L	SW846 8270B
Hexachloroethane	ND	0.050	mg/L	SW846 8270B
o-Cresol	ND	0.050	mg/L	SW846 8270B
Phenol	ND	0.050	mg/L	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	83	(44 - 110)
2-Fluorobiphenyl	75	(50 - 105)
Terphenyl-d14	96	(11 - 158)
Phenol-d5	37	(0.0- 131)
2-Fluorophenol	28	(0.0- 130)
2,4,6-Tribromophenol	73	(0.0- 156)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB1 (7-9')

GC Semivolatiles

Lot-Sample #...: A7L150124-003 **Work Order #...:** CEJCJ10Q **Matrix.....:** SOLID
Date Sampled...: 12/11/97 13:20 **Date Received..:** 12/13/97
Prep Date.....: 12/15/97 **Analysis Date..:** 12/18/97
Prep Batch #...: 7349234
Dilution Factor: 1
% Moisture.....: 4.2

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	17	ug/kg	SW846 8080A
Aroclor 1221	ND	17	ug/kg	SW846 8080A
Aroclor 1232	ND	17	ug/kg	SW846 8080A
Aroclor 1242	ND	17	ug/kg	SW846 8080A
Aroclor 1248	ND	17	ug/kg	SW846 8080A
Aroclor 1254	ND	35	ug/kg	SW846 8080A
Aroclor 1260	ND	35	ug/kg	SW846 8080A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	107	(8.0- 129)
Decachlorobiphenyl	103	(0.0- 138)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB1 (7-9')

TOTAL Metals

Lot-Sample #...: A7L150124-003 **Matrix.....:** SOLID
Date Sampled...: 12/11/97 13:20 **Date Received..:** 12/13/97
% Moisture.....: 4.2

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7352248						
Trivalent Chromium	ND	0.10	mg/L	SW846 7196A	12/19-12/22/97	CEJCJ10G

Dilution Factor: 1

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB1 (7-9')

TCLP Metals

Lot-Sample #...: A7L150124-003 **Matrix.....:** SOLID
Date Sampled...: 12/11/97 13:20 **Date Received..:** 12/13/97
Leach Date.....: 12/19/97 **Leach Batch #..:** P735203

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7352247						
Silver	ND	0.50	mg/L	SW846 6010A	12/19-12/22/97	CEJCJ103
		Dilution Factor: 1				
Arsenic	ND	0.50	mg/L	SW846 6010A	12/19-12/22/97	CEJCJ104
		Dilution Factor: 1				
Barium	ND	10.0	mg/L	SW846 6010A	12/19-12/22/97	CEJCJ105
		Dilution Factor: 1				
Cadmium	ND	0.10	mg/L	SW846 6010A	12/19-12/22/97	CEJCJ106
		Dilution Factor: 1				
Chromium	ND	0.50	mg/L	SW846 6010A	12/19-12/22/97	CEJCJ107
		Dilution Factor: 1				
Lead	ND	0.50	mg/L	SW846 6010A	12/19-12/22/97	CEJCJ108
		Dilution Factor: 1				
Selenium	ND	0.25	mg/L	SW846 6010A	12/19-12/22/97	CEJCJ109
		Dilution Factor: 1				
Copper	ND	1.0	mg/L	SW846 6010A	12/19-12/22/97	CEJCJ10A
		Dilution Factor: 1				
Nickel	**0.11**	**0.040**	**mg/L**	**SW846 6010A**	**12/19-12/22/97**	**CEJCJ10C**
		Dilution Factor: 1				
Mercury	ND	0.0020	mg/L	SW846 7470A	12/19-12/22/97	CEJCJ10E
		Dilution Factor: 1				
Zinc	ND	1.0	mg/L	SW846 6010A	12/19-12/22/97	CEJCJ10D
		Dilution Factor: 1				

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB1 (7-9')

General Chemistry

Lot-Sample #...: A7L150124-003 **Work Order #...:** CEJCJ **Matrix.....:** SOLID
Date Sampled...: 12/11/97 13:20 **Date Received..:** 12/13/97
% Moisture.....: 4.2

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Ignitability	**NEG**		**No Units**	**SW846 SECTION 7.1**	**12/30/97**	**7364198**
	Dilution Factor: 1					
Paint Filter Test	**NEG**		**No Units**	**SW846 9095**	**12/18/97**	**7352163**
	Dilution Factor: 1					
Percent Solids	**95.8**	**0.10**	**%**	**MCAWW 160.3 MOD**	**12/16-12/17/97**	**7350115**
	Dilution Factor: 1					
Reactive Cyanide	ND	210	mg/kg	SW846 7.3.3	12/17/97	7351210
	Dilution Factor: 1					
Reactive Sulfide	ND	210	mg/kg	SW846 7.3.4	12/17/97	7351208
	Dilution Factor: 1					
Specific Gravity	**1.2**		**No Units**	**SM18 2710 F**	**12/30/97**	**7364206**
	Dilution Factor: 1					
Total Halogens	**3.2**	**1.0**	**%**	**ASTM D 2361-91**	**12/19-12/23/97**	**7353131**
	Dilution Factor: 1					

NOTE(S):

RL Reporting Limit

NEG Negative

Results and reporting limits have been adjusted for dry weight.

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB1 (7-9')

General Chemistry

Lot-Sample #...: A7L150124-003 **Work Order #...:** CEJCJ **Matrix.....:** SOLID
Date Sampled...: 12/11/97 13:20 **Date Received..:** 12/13/97
% Moisture.....: 4.2

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
DI Leachable pH	9.2		No Units	MCAWW 150.1	12/19/97	7352122

Dilution Factor: 1

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB1 (7-9')

TCLP General Chemistry

Lot-Sample #...: A7L150124-003 **Work Order #...:** CEJCJ **Matrix.....:** SOLID
Date Sampled...: 12/11/97 13:20 **Date Received..:** 12/13/97
% Moisture.....: 4.2 **Leach Date.....:** 12/31/97 **Leach Batch #..:** P736404

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium	ND	0.02	mg/L	SW846 7196A	12/31/97	7365134

Dilution Factor: 1

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB3 (13-15')

GC/MS Volatiles

Lot-Sample #...: A7L150124-004 **Work Order #...:** CEJCN102 **Matrix.....:** SOLID
Date Sampled...: 12/11/97 09:40 **Date Received..:** 12/13/97
Prep Date.....: 12/18/97 **Analysis Date..:** 12/18/97
Prep Batch #...: 7353121
Dilution Factor: 1
% Moisture.....: 4.5

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acrolein	ND	100	ug/kg	SW846 8260A
Acrylonitrile	ND	100	ug/kg	SW846 8260A
Benzene	ND	5.2	ug/kg	SW846 8260A
Bromoform	ND	5.2	ug/kg	SW846 8260A
Bromomethane	ND	10	ug/kg	SW846 8260A
Carbon tetrachloride	ND	5.2	ug/kg	SW846 8260A
Chlorobenzene	ND	5.2	ug/kg	SW846 8260A
Chlorodibromomethane	ND	5.2	ug/kg	SW846 8260A
Chloroethane	ND	10	ug/kg	SW846 8260A
Chloroform	ND	5.2	ug/kg	SW846 8260A
Chloromethane	ND	10	ug/kg	SW846 8260A
Dichlorobromomethane	ND	5.2	ug/kg	SW846 8260A
1,1-Dichloroethane	ND	5.2	ug/kg	SW846 8260A
1,2-Dichloroethane	ND	5.2	ug/kg	SW846 8260A
1,1-Dichloroethene	ND	5.2	ug/kg	SW846 8260A
1,2-Dichloroethene (total)	ND	5.2	ug/kg	SW846 8260A
1,2-Dichloropropane	ND	5.2	ug/kg	SW846 8260A
cis-1,3-Dichloropropene	ND	5.2	ug/kg	SW846 8260A
trans-1,3-Dichloropropene	ND	5.2	ug/kg	SW846 8260A
Ethylbenzene	ND	5.2	ug/kg	SW846 8260A
Methylene chloride	**16**	**5.2**	**ug/kg**	**SW846 8260A**
1,1,2,2-Tetrachloroethane	ND	5.2	ug/kg	SW846 8260A
Tetrachloroethene	ND	5.2	ug/kg	SW846 8260A
Toluene	ND	5.2	ug/kg	SW846 8260A
1,1,1-Trichloroethane	ND	5.2	ug/kg	SW846 8260A
1,1,2-Trichloroethane	ND	5.2	ug/kg	SW846 8260A
Trichloroethene	ND	5.2	ug/kg	SW846 8260A
Vinyl chloride	ND	10	ug/kg	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	104	(61 - 115)
Toluene-d8	93	(82 - 129)
Bromofluorobenzene	89	(64 - 112)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB3 (13-15')

TCLP GC/MS Volatiles

Lot-Sample #...: A7L150124-004 **Work Order #...:** CEJCN10P **Matrix.....:** SOLID
Date Sampled...: 12/11/97 09:40 **Date Received..:** 12/13/97
Leach Date.....: 12/24/97 **Prep Date.....:** 01/05/98 **Analysis Date..:** 01/05/98
Leach Batch #..: P735702 **Prep Batch #...:** 7358177
Dilution Factor: 1
% Moisture.....: 4.5

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	0.025	mg/L	SW846 8260A
Carbon tetrachloride	ND	0.025	mg/L	SW846 8260A
Chlorobenzene	ND	0.025	mg/L	SW846 8260A
Chloroform	ND	0.025	mg/L	SW846 8260A
1,2-Dichloroethane	ND	0.025	mg/L	SW846 8260A
1,1-Dichloroethylene	ND	0.070	mg/L	SW846 8260A
Methyl ethyl ketone	ND	0.050	mg/L	SW846 8260A
Tetrachloroethylene	ND	0.025	mg/L	SW846 8260A
Trichloroethylene	ND	0.025	mg/L	SW846 8260A
Vinyl chloride	ND	0.050	mg/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	104	(61 - 115)
Toluene-d8	95	(82 - 129)
Bromofluorobenzene	92	(64 - 112)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB3 (13-15')

TCLP GC/MS Semivolatiles

Lot-Sample #...: A7L150124-004 **Work Order #...:** CEJCN10R **Matrix.....:** SOLID
Date Sampled...: 12/11/97 09:40 **Date Received..:** 12/13/97
Leach Date.....: 12/19/97 **Prep Date.....:** 12/21/97 **Analysis Date..:** 12/26/97
Leach Batch #..: P735203 **Prep Batch #...:** 7355101
Dilution Factor: 1
% Moisture.....: 4.5

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Nitrobenzene	ND	0.050	mg/L	SW846 8270B
Pentachlorophenol	ND	0.25	mg/L	SW846 8270B
Pyridine	ND	0.10	mg/L	SW846 8270B
2,4,5-Trichlorophenol	ND	0.25	mg/L	SW846 8270B
2,4,6-Trichlorophenol	ND	0.050	mg/L	SW846 8270B
m-Cresol & p-Cresol	ND	0.10	mg/L	SW846 8270B
1,4-Dichlorobenzene	ND	0.050	mg/L	SW846 8270B
2,4-Dinitrotoluene	ND	0.050	mg/L	SW846 8270B
Hexachlorobenzene	ND	0.050	mg/L	SW846 8270B
Hexachlorobutadiene	ND	0.050	mg/L	SW846 8270B
Hexachloroethane	ND	0.050	mg/L	SW846 8270B
o-Cresol	ND	0.050	mg/L	SW846 8270B
Phenol	ND	0.050	mg/L	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	88	(44 - 110)
2-Fluorobiphenyl	76	(50 - 105)
Terphenyl-d14	108	(11 - 158)
Phenol-d5	22	(0.0- 131)
2-Fluorophenol	8.4	(0.0- 130)
2,4,6-Tribromophenol	45	(0.0- 156)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB3 (13-15')

GC Semivolatiles

Lot-Sample #...: A7L150124-004 **Work Order #...:** CEJCN10Q **Matrix.....:** SOLID
Date Sampled...: 12/11/97 09:40 **Date Received..:** 12/13/97
Prep Date.....: 12/15/97 **Analysis Date..:** 12/18/97
Prep Batch #...: 7349234
Dilution Factor: 1
% Moisture.....: 4.5

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	17	ug/kg	SW846 8080A
Aroclor 1221	ND	17	ug/kg	SW846 8080A
Aroclor 1232	ND	17	ug/kg	SW846 8080A
Aroclor 1242	ND	17	ug/kg	SW846 8080A
Aroclor 1248	ND	17	ug/kg	SW846 8080A
Aroclor 1254	ND	35	ug/kg	SW846 8080A
Aroclor 1260	ND	35	ug/kg	SW846 8080A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	99	(8.0- 129)
Decachlorobiphenyl	89	(0.0- 138)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB3 (13-15')

TOTAL Metals

Lot-Sample #...: A7L150124-004 **Matrix.....:** SOLID
Date Sampled...: 12/11/97 09:40 **Date Received..:** 12/13/97
% Moisture.....: 4.5

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7352248						
Trivalent Chromium	ND	0.10	mg/L	SW846 7196A	12/19-12/22/97	CEJCN10G

Dilution Factor: 1

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB3 (13-15')

TCLP Metals

Lot-Sample #...: A7L150124-004 **Matrix.....:** SOLID
Date Sampled...: 12/11/97 09:40 **Date Received..:** 12/13/97
Leach Date.....: 12/19/97 **Leach Batch #..:** P735203

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7352247						
Silver	ND	0.50	mg/L	SW846 6010A	12/19-12/22/97	CEJCN103
		Dilution Factor: 1				
Arsenic	ND	0.50	mg/L	SW846 6010A	12/19-12/22/97	CEJCN104
		Dilution Factor: 1				
Barium	ND	10.0	mg/L	SW846 6010A	12/19-12/22/97	CEJCN105
		Dilution Factor: 1				
Cadmium	ND	0.10	mg/L	SW846 6010A	12/19-12/22/97	CEJCN106
		Dilution Factor: 1				
Chromium	ND	0.50	mg/L	SW846 6010A	12/19-12/22/97	CEJCN107
		Dilution Factor: 1				
Lead	ND	0.50	mg/L	SW846 6010A	12/19-12/22/97	CEJCN108
		Dilution Factor: 1				
Selenium	ND	0.25	mg/L	SW846 6010A	12/19-12/22/97	CEJCN109
		Dilution Factor: 1				
Copper	ND	1.0	mg/L	SW846 6010A	12/19-12/22/97	CEJCN10A
		Dilution Factor: 1				
Nickel	ND	0.040	mg/L	SW846 6010A	12/19-12/22/97	CEJCN10C
		Dilution Factor: 1				
Mercury	ND	0.0020	mg/L	SW846 7470A	12/19-12/22/97	CEJCN10E
		Dilution Factor: 1				
Zinc	ND	1.0	mg/L	SW846 6010A	12/19-12/22/97	CEJCN10D
		Dilution Factor: 1				

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB3 (13-15')

General Chemistry

Lot-Sample #...: A7L150124-004 **Work Order #...:** CEJCN **Matrix.....:** SOLID
Date Sampled...: 12/11/97 09:40 **Date Received..:** 12/13/97
% Moisture.....: 4.5

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Ignitability	**NEG**		**No Units**	**SW846 SECTION 7.1**	**12/30/97**	**7364198**
	Dilution Factor: 1					
Paint Filter Test	**NEG**		**No Units**	**SW846 9095**	**12/18/97**	**7352163**
	Dilution Factor: 1					
Percent Solids	**95.5**	**0.10**	**%**	**MCAWW 160.3 MOD**	**12/16-12/17/97**	**7350115**
	Dilution Factor: 1					
Reactive Cyanide	ND	210	mg/kg	SW846 7.3.3	12/17/97	7351210
	Dilution Factor: 1					
Reactive Sulfide	ND	210	mg/kg	SW846 7.3.4	12/17/97	7351208
	Dilution Factor: 1					
Specific Gravity	**1.5**		**No Units**	**SM18 2710 F**	**12/30/97**	**7364206**
	Dilution Factor: 1					
Total Halogens	**2.7**	**1.0**	**%**	**ASTM D 2361-91**	**12/19-12/23/97**	**7353131**
	Dilution Factor: 1					

NOTE(S):

RL Reporting Limit

NEG Negative

Results and reporting limits have been adjusted for dry weight.

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB3 (13-15')

General Chemistry

Lot-Sample #...: A7L150124-004 **Work Order #...:** CEJCN **Matrix.....:** SOLID
Date Sampled...: 12/11/97 09:40 **Date Received..:** 12/13/97
% Moisture.....: 4.5

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
DI Leachable pH	**9.3**		**No Units**	**MCAWW 150.1**	**12/19/97**	**7352122**

Dilution Factor: 1

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB3 (13-15')

TCLP General Chemistry

Lot-Sample #...: A7L150124-004 **Work Order #...:** CEJCN **Matrix.....:** SOLID
Date Sampled...: 12/11/97 09:40 **Date Received..:** 12/13/97
% Moisture.....: 4.5 **Leach Date.....:** 12/31/97 **Leach Batch #..:** P736404

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium	ND	0.02	mg/L	SW846 7196A	12/31/97	7365134

Dilution Factor: 1

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB4 (3-5')

GC/MS Volatiles

Lot-Sample #...: A7L150124-005 **Work Order #...:** CEJCP102 **Matrix.....:** SOLID
Date Sampled...: 12/12/97 14:00 **Date Received..:** 12/13/97
Prep Date.....: 12/18/97 **Analysis Date..:** 12/18/97
Prep Batch #...: 7353121
Dilution Factor: 1
% Moisture.....: 18

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acrolein	ND	120	ug/kg	SW846 8260A
Acrylonitrile	ND	120	ug/kg	SW846 8260A
Benzene	ND	6.1	ug/kg	SW846 8260A
Bromoform	ND	6.1	ug/kg	SW846 8260A
Bromomethane	ND	12	ug/kg	SW846 8260A
Carbon tetrachloride	ND	6.1	ug/kg	SW846 8260A
Chlorobenzene	ND	6.1	ug/kg	SW846 8260A
Chlorodibromomethane	ND	6.1	ug/kg	SW846 8260A
Chloroethane	ND	12	ug/kg	SW846 8260A
Chloroform	ND	6.1	ug/kg	SW846 8260A
Chloromethane	ND	12	ug/kg	SW846 8260A
Dichlorobromomethane	ND	6.1	ug/kg	SW846 8260A
1,1-Dichloroethane	ND	6.1	ug/kg	SW846 8260A
1,2-Dichloroethane	ND	6.1	ug/kg	SW846 8260A
1,1-Dichloroethene	ND	6.1	ug/kg	SW846 8260A
1,2-Dichloroethene (total)	**34**	**6.1**	**ug/kg**	**SW846 8260A**
1,2-Dichloropropane	ND	6.1	ug/kg	SW846 8260A
cis-1,3-Dichloropropene	ND	6.1	ug/kg	SW846 8260A
trans-1,3-Dichloropropene	ND	6.1	ug/kg	SW846 8260A
Ethylbenzene	ND	6.1	ug/kg	SW846 8260A
Methylene chloride	**41**	**6.1**	**ug/kg**	**SW846 8260A**
1,1,2,2-Tetrachloroethane	ND	6.1	ug/kg	SW846 8260A
Tetrachloroethene	**120**	**6.1**	**ug/kg**	**SW846 8260A**
Toluene	ND	6.1	ug/kg	SW846 8260A
1,1,1-Trichloroethane	ND	6.1	ug/kg	SW846 8260A
1,1,2-Trichloroethane	ND	6.1	ug/kg	SW846 8260A
Trichloroethene	**44**	**6.1**	**ug/kg**	**SW846 8260A**
Vinyl chloride	ND	12	ug/kg	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	103	(61 - 115)
Toluene-d8	91	(82 - 129)
Bromofluorobenzene	84	(64 - 112)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB4 (3-5')

TCLP GC/MS Volatiles

Lot-Sample #...: A7L150124-005 **Work Order #...:** CEJCP10P **Matrix.....:** SOLID
Date Sampled...: 12/12/97 14:00 **Date Received..:** 12/13/97
Leach Date.....: 12/24/97 **Prep Date.....:** 01/05/98 **Analysis Date..:** 01/05/98
Leach Batch #..: P735702 **Prep Batch #...:** 7358177
Dilution Factor: 1
% Moisture.....: 18

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	0.025	mg/L	SW846 8260A
Carbon tetrachloride	ND	0.025	mg/L	SW846 8260A
Chlorobenzene	ND	0.025	mg/L	SW846 8260A
Chloroform	ND	0.025	mg/L	SW846 8260A
1,2-Dichloroethane	ND	0.025	mg/L	SW846 8260A
1,1-Dichloroethylene	ND	0.070	mg/L	SW846 8260A
Methyl ethyl ketone	ND	0.050	mg/L	SW846 8260A
Tetrachloroethylene	**0.025**	**0.025**	**mg/L**	**SW846 8260A**
Trichloroethylene	ND	0.025	mg/L	SW846 8260A
Vinyl chloride	ND	0.050	mg/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	109	(61 - 115)
Toluene-d8	93	(82 - 129)
Bromofluorobenzene	90	(64 - 112)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB4 (3-5')

TCLP GC/MS Semivolatiles

Lot-Sample #...: A7L150124-005 **Work Order #...:** CEJCP10R **Matrix.....:** SOLID
Date Sampled...: 12/12/97 14:00 **Date Received..:** 12/13/97
Leach Date.....: 12/19/97 **Prep Date.....:** 12/21/97 **Analysis Date..:** 12/26/97
Leach Batch #..: P735203 **Prep Batch #...:** 7355101
Dilution Factor: 1
% Moisture.....: 18

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Nitrobenzene	ND	0.050	mg/L	SW846 8270B
Pentachlorophenol	ND	0.25	mg/L	SW846 8270B
Pyridine	ND	0.10	mg/L	SW846 8270B
2,4,5-Trichlorophenol	ND	0.25	mg/L	SW846 8270B
2,4,6-Trichlorophenol	ND	0.050	mg/L	SW846 8270B
m-Cresol & p-Cresol	ND	0.10	mg/L	SW846 8270B
1,4-Dichlorobenzene	ND	0.050	mg/L	SW846 8270B
2,4-Dinitrotoluene	ND	0.050	mg/L	SW846 8270B
Hexachlorobenzene	ND	0.050	mg/L	SW846 8270B
Hexachlorobutadiene	ND	0.050	mg/L	SW846 8270B
Hexachloroethane	ND	0.050	mg/L	SW846 8270B
o-Cresol	ND	0.050	mg/L	SW846 8270B
Phenol	ND	0.050	mg/L	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	70	(44 - 110)
2-Fluorobiphenyl	60	(50 - 105)
Terphenyl-d14	94	(11 - 158)
Phenol-d5	6.9	(0.0- 131)
2-Fluorophenol	0.0	(0.0- 130)
2,4,6-Tribromophenol	2.9	(0.0- 156)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB4 (3-5')

TCLP GC/MS Semivolatiles

Lot-Sample #...: A7L150124-005 **Work Order #...:** CEJCP20R **Matrix.....:** SOLID
Date Sampled...: 12/12/97 14:00 **Date Received..:** 12/13/97
Leach Date.....: 12/19/97 **Prep Date.....:** 12/30/97 **Analysis Date..:** 01/05/98
Leach Batch #..: P735203 **Prep Batch #...:** 7364109
Dilution Factor: 1
% Moisture.....: 18

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Nitrobenzene	ND	0.050	mg/L	SW846 8270B
Pentachlorophenol	ND	0.25	mg/L	SW846 8270B
Pyridine	ND	0.10	mg/L	SW846 8270B
2,4,5-Trichlorophenol	ND	0.25	mg/L	SW846 8270B
2,4,6-Trichlorophenol	ND	0.050	mg/L	SW846 8270B
m-Cresol & p-Cresol	ND	0.10	mg/L	SW846 8270B
1,4-Dichlorobenzene	ND	0.050	mg/L	SW846 8270B
2,4-Dinitrotoluene	ND	0.050	mg/L	SW846 8270B
Hexachlorobenzene	ND	0.050	mg/L	SW846 8270B
Hexachlorobutadiene	ND	0.050	mg/L	SW846 8270B
Hexachloroethane	ND	0.050	mg/L	SW846 8270B
o-Cresol	ND	0.050	mg/L	SW846 8270B
Phenol	ND	0.050	mg/L	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	51	(44 - 110)
2-Fluorobiphenyl	61	(50 - 105)
Terphenyl-d14	99	(11 - 158)
Phenol-d5	12	(0.0- 131)
2-Fluorophenol	3.7	(0.0- 130)
2,4,6-Tribromophenol	2.6	(0.0- 156)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB4 (3-5')

GC Semivolatiles

Lot-Sample #...: A7L150124-005 **Work Order #...:** CEJCP10Q **Matrix.....:** SOLID
Date Sampled...: 12/12/97 14:00 **Date Received..:** 12/13/97
Prep Date.....: 12/15/97 **Analysis Date..:** 12/22/97
Prep Batch #...: 7349234
Dilution Factor: 1
% Moisture.....: 18

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	20	ug/kg	SW846 8080A
Aroclor 1221	ND	20	ug/kg	SW846 8080A
Aroclor 1232	ND	20	ug/kg	SW846 8080A
Aroclor 1242	ND	20	ug/kg	SW846 8080A
Aroclor 1248	ND	20	ug/kg	SW846 8080A
Aroclor 1254	ND	40	ug/kg	SW846 8080A
Aroclor 1260	ND	40	ug/kg	SW846 8080A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	84	(8.0- 129)
Decachlorobiphenyl	78	(0.0- 138)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB4 (3-5')

TOTAL Metals

Lot-Sample #...: A7L150124-005 **Matrix.....:** SOLID
Date Sampled...: 12/12/97 14:00 **Date Received..:** 12/13/97
% Moisture.....: 18

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7352248						
Trivalent Chromium	ND	0.10	mg/L	SW846 7196A	12/19-12/22/97	CEJCP10G

Dilution Factor: 1

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB4 (3-5')

TCLP Metals

Lot-Sample #...: A7L150124-005 **Matrix.....:** SOLID
Date Sampled...: 12/12/97 14:00 **Date Received..:** 12/13/97
Leach Date.....: 12/19/97 **Leach Batch #..:** P735203

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7352247						
Silver	ND	0.50	mg/L	SW846 6010A	12/19-12/22/97	CEJCP103
		Dilution Factor: 1				
Arsenic	ND	0.50	mg/L	SW846 6010A	12/19-12/22/97	CEJCP104
		Dilution Factor: 1				
Barium	ND	10.0	mg/L	SW846 6010A	12/19-12/22/97	CEJCP105
		Dilution Factor: 1				
Cadmium	ND	0.10	mg/L	SW846 6010A	12/19-12/22/97	CEJCP106
		Dilution Factor: 1				
Chromium	ND	0.50	mg/L	SW846 6010A	12/19-12/22/97	CEJCP107
		Dilution Factor: 1				
Lead	ND	0.50	mg/L	SW846 6010A	12/19-12/22/97	CEJCP108
		Dilution Factor: 1				
Selenium	ND	0.25	mg/L	SW846 6010A	12/19-12/22/97	CEJCP109
		Dilution Factor: 1				
Copper	ND	1.0	mg/L	SW846 6010A	12/19-12/22/97	CEJCP10A
		Dilution Factor: 1				
Nickel	**0.054**	**0.040**	**mg/L**	**SW846 6010A**	**12/19-12/22/97**	**CEJCP10C**
		Dilution Factor: 1				
Mercury	ND	0.0020	mg/L	SW846 7470A	12/19-12/22/97	CEJCP10E
		Dilution Factor: 1				
Zinc	ND	1.0	mg/L	SW846 6010A	12/19-12/22/97	CEJCP10D
		Dilution Factor: 1				

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB4 (3-5')

General Chemistry

Lot-Sample #...: A7L150124-005 **Work Order #...:** CEJCP **Matrix.....:** SOLID
Date Sampled...: 12/12/97 14:00 **Date Received..:** 12/13/97
% Moisture.....: 18

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Ignitability	**NEG**		**No Units**	**SW846 SECTION 7.1**	**12/30/97**	**7364198**
	Dilution Factor: 1					
Paint Filter Test	**NEG**		**No Units**	**SW846 9095**	**12/18/97**	**7352163**
	Dilution Factor: 1					
Percent Solids	**82.4**	**0.10**	**%**	**MCAWW 160.3 MOD**	**12/16-12/17/97**	**7350115**
	Dilution Factor: 1					
Reactive Cyanide	ND	240	mg/kg	SW846 7.3.3	12/17/97	7351210
	Dilution Factor: 1					
Reactive Sulfide	ND	240	mg/kg	SW846 7.3.4	12/17/97	7351208
	Dilution Factor: 1					
Specific Gravity	**1.9**		**No Units**	**SM18 2710 F**	**12/30/97**	**7364206**
	Dilution Factor: 1					
Total Halogens	**1.2**	**1.0**	**%**	**ASTM D 2361-91**	**12/19-12/23/97**	**7353131**
	Dilution Factor: 1					

NOTE(S):

RL Reporting Limit

NEG Negative

Results and reporting limits have been adjusted for dry weight.

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB4 (3-5')

General Chemistry

Lot-Sample #...: A7L150124-005 **Work Order #...:** CEJCP **Matrix.....:** SOLID
Date Sampled...: 12/12/97 14:00 **Date Received..:** 12/13/97
% Moisture.....: 18

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
DI Leachable pH	**8.5**		**No Units**	**MCAWW 150.1**	**12/19/97**	**7352122**

Dilution Factor: 1

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB4 (3-5')

TCLP General Chemistry

Lot-Sample #...: A7L150124-005 **Work Order #...:** CEJCP **Matrix.....:** SOLID
Date Sampled...: 12/12/97 14:00 **Date Received..:** 12/13/97
% Moisture.....: 18 **Leach Date.....:** 12/31/97 **Leach Batch #..:** P736404

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium	ND	0.02	mg/L	SW846 7196A	12/31/97	7365134

Dilution Factor: 1

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB4 (14-16')

GC/MS Volatiles

Lot-Sample #...: A7L150124-006 **Work Order #...:** CEJCQ102 **Matrix.....:** SOLID
Date Sampled...: 12/12/97 15:30 **Date Received..:** 12/13/97
Prep Date.....: 12/18/97 **Analysis Date..:** 12/18/97
Prep Batch #...: 7353121
Dilution Factor: 1
% Moisture.....: 4.3

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acrolein	ND	100	ug/kg	SW846 8260A
Acrylonitrile	ND	100	ug/kg	SW846 8260A
Benzene	ND	5.2	ug/kg	SW846 8260A
Bromoform	ND	5.2	ug/kg	SW846 8260A
Bromomethane	ND	10	ug/kg	SW846 8260A
Carbon tetrachloride	ND	5.2	ug/kg	SW846 8260A
Chlorobenzene	ND	5.2	ug/kg	SW846 8260A
Chlorodibromomethane	ND	5.2	ug/kg	SW846 8260A
Chloroethane	ND	10	ug/kg	SW846 8260A
Chloroform	ND	5.2	ug/kg	SW846 8260A
Chloromethane	ND	10	ug/kg	SW846 8260A
Dichlorobromomethane	ND	5.2	ug/kg	SW846 8260A
1,1-Dichloroethane	ND	5.2	ug/kg	SW846 8260A
1,2-Dichloroethane	ND	5.2	ug/kg	SW846 8260A
1,1-Dichloroethene	ND	5.2	ug/kg	SW846 8260A
1,2-Dichloroethene (total)	ND	5.2	ug/kg	SW846 8260A
1,2-Dichloropropane	ND	5.2	ug/kg	SW846 8260A
cis-1,3-Dichloropropene	ND	5.2	ug/kg	SW846 8260A
trans-1,3-Dichloropropene	ND	5.2	ug/kg	SW846 8260A
Ethylbenzene	ND	5.2	ug/kg	SW846 8260A
Methylene chloride	**8.9**	**5.2**	**ug/kg**	**SW846 8260A**
1,1,2,2-Tetrachloroethane	ND	5.2	ug/kg	SW846 8260A
Tetrachloroethene	**95**	**5.2**	**ug/kg**	**SW846 8260A**
Toluene	ND	5.2	ug/kg	SW846 8260A
1,1,1-Trichloroethane	ND	5.2	ug/kg	SW846 8260A
1,1,2-Trichloroethane	ND	5.2	ug/kg	SW846 8260A
Trichloroethene	**21**	**5.2**	**ug/kg**	**SW846 8260A**
Vinyl chloride	ND	10	ug/kg	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	110	(61 - 115)
Toluene-d8	92	(82 - 129)
Bromofluorobenzene	86	(64 - 112)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB4 (14-16')

TCLP GC/MS Volatiles

Lot-Sample #...: A7L150124-006 **Work Order #...:** CEJCQ10P **Matrix.....:** SOLID
Date Sampled...: 12/12/97 15:30 **Date Received..:** 12/13/97
Leach Date.....: 12/24/97 **Prep Date.....:** 01/05/98 **Analysis Date..:** 01/05/98
Leach Batch #..: P735702 **Prep Batch #...:** 7358177
Dilution Factor: 1
% Moisture.....: 4.3

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	0.025	mg/L	SW846 8260A
Carbon tetrachloride	ND	0.025	mg/L	SW846 8260A
Chlorobenzene	ND	0.025	mg/L	SW846 8260A
Chloroform	ND	0.025	mg/L	SW846 8260A
1,2-Dichloroethane	ND	0.025	mg/L	SW846 8260A
1,1-Dichloroethylene	ND	0.070	mg/L	SW846 8260A
Methyl ethyl ketone	ND	0.050	mg/L	SW846 8260A
Tetrachloroethylene	**0.038**	**0.025**	**mg/L**	**SW846 8260A**
Trichloroethylene	ND	0.025	mg/L	SW846 8260A
Vinyl chloride	ND	0.050	mg/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	106	(61 - 115)
Toluene-d8	95	(82 - 129)
Bromofluorobenzene	91	(64 - 112)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB4 (14-16')

TCLP GC/MS Semivolatiles

Lot-Sample #...: A7L150124-006 **Work Order #...:** CEJCQ10R **Matrix.....:** SOLID
Date Sampled...: 12/12/97 15:30 **Date Received..:** 12/13/97
Leach Date.....: 12/19/97 **Prep Date.....:** 12/21/97 **Analysis Date..:** 12/26/97
Leach Batch #..: P735203 **Prep Batch #...:** 7355101
Dilution Factor: 1
% Moisture.....: 4.3

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Nitrobenzene	ND	0.050	mg/L	SW846 8270B
Pentachlorophenol	ND	0.25	mg/L	SW846 8270B
Pyridine	ND	0.10	mg/L	SW846 8270B
2,4,5-Trichlorophenol	ND	0.25	mg/L	SW846 8270B
2,4,6-Trichlorophenol	ND	0.050	mg/L	SW846 8270B
m-Cresol & p-Cresol	ND	0.10	mg/L	SW846 8270B
1,4-Dichlorobenzene	ND	0.050	mg/L	SW846 8270B
2,4-Dinitrotoluene	ND	0.050	mg/L	SW846 8270B
Hexachlorobenzene	ND	0.050	mg/L	SW846 8270B
Hexachlorobutadiene	ND	0.050	mg/L	SW846 8270B
Hexachloroethane	ND	0.050	mg/L	SW846 8270B
o-Cresol	ND	0.050	mg/L	SW846 8270B
Phenol	ND	0.050	mg/L	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	74	(44 - 110)
2-Fluorobiphenyl	65	(50 - 105)
Terphenyl-d14	89	(11 - 158)
Phenol-d5	34	(0.0- 131)
2-Fluorophenol	27	(0.0- 130)
2,4,6-Tribromophenol	64	(0.0- 156)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB4 (14-16')

GC Semivolatiles

Lot-Sample #...: A7L150124-006 **Work Order #...:** CEJCQ10Q **Matrix.....:** SOLID
Date Sampled...: 12/12/97 15:30 **Date Received..:** 12/13/97
Prep Date.....: 12/15/97 **Analysis Date..:** 12/18/97
Prep Batch #...: 7349234
Dilution Factor: 1
% Moisture.....: 4.3

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	17	ug/kg	SW846 8080A
Aroclor 1221	ND	17	ug/kg	SW846 8080A
Aroclor 1232	ND	17	ug/kg	SW846 8080A
Aroclor 1242	ND	17	ug/kg	SW846 8080A
Aroclor 1248	ND	17	ug/kg	SW846 8080A
Aroclor 1254	ND	35	ug/kg	SW846 8080A
Aroclor 1260	ND	35	ug/kg	SW846 8080A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	105	(8.0- 129)
Decachlorobiphenyl	106	(0.0- 138)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB4 (14-16')

TOTAL Metals

Lot-Sample #...: A7L150124-006 **Matrix.....:** SOLID
Date Sampled...: 12/12/97 15:30 **Date Received..:** 12/13/97
% Moisture.....: 4.3

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7352248						
Trivalent Chromium	ND	0.10	mg/L	SW846 7196A	12/19-12/22/97	CEJCQ10G

Dilution Factor: 1

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB4 (14-16')

TCLP Metals

Lot-Sample #...: A7L150124-006 **Matrix.....:** SOLID
Date Sampled...: 12/12/97 15:30 **Date Received..:** 12/13/97
Leach Date.....: 12/19/97 **Leach Batch #..:** P735203

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7352247						
Silver	ND	0.50	mg/L	SW846 6010A	12/19-12/22/97	CEJCQ103
		Dilution Factor: 1				
Arsenic	ND	0.50	mg/L	SW846 6010A	12/19-12/22/97	CEJCQ104
		Dilution Factor: 1				
Barium	ND	10.0	mg/L	SW846 6010A	12/19-12/22/97	CEJCQ105
		Dilution Factor: 1				
Cadmium	ND	0.10	mg/L	SW846 6010A	12/19-12/22/97	CEJCQ106
		Dilution Factor: 1				
Chromium	ND	0.50	mg/L	SW846 6010A	12/19-12/22/97	CEJCQ107
		Dilution Factor: 1				
Lead	ND	0.50	mg/L	SW846 6010A	12/19-12/22/97	CEJCQ108
		Dilution Factor: 1				
Selenium	ND	0.25	mg/L	SW846 6010A	12/19-12/22/97	CEJCQ109
		Dilution Factor: 1				
Copper	ND	1.0	mg/L	SW846 6010A	12/19-12/22/97	CEJCQ10A
		Dilution Factor: 1				
Nickel	ND	0.040	mg/L	SW846 6010A	12/19-12/22/97	CEJCQ10C
		Dilution Factor: 1				
Mercury	ND	0.0020	mg/L	SW846 7470A	12/19-12/22/97	CEJCQ10E
		Dilution Factor: 1				
Zinc	ND	1.0	mg/L	SW846 6010A	12/19-12/22/97	CEJCQ10D
		Dilution Factor: 1				

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB4 (14-16')

General Chemistry

Lot-Sample #...: A7L150124-006 **Work Order #...:** CEJCQ **Matrix.....:** SOLID
Date Sampled...: 12/12/97 15:30 **Date Received..:** 12/13/97
% Moisture.....: 4.3

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Ignitability	**NEG**		**No Units**	**SW846 SECTION 7.1**	**12/30/97**	**7364198**
	Dilution Factor: 1					
Paint Filter Test	**NEG**		**No Units**	**SW846 9095**	**12/18/97**	**7352163**
	Dilution Factor: 1					
Percent Solids	**95.7**	**0.10**	**%**	**MCAWW 160.3 MOD**	**12/16-12/17/97**	**7350115**
	Dilution Factor: 1					
Reactive Cyanide	ND	210	mg/kg	SW846 7.3.3	12/17/97	7351210
	Dilution Factor: 1					
Reactive Sulfide	ND	210	mg/kg	SW846 7.3.4	12/17/97	7351208
	Dilution Factor: 1					
Specific Gravity	**1.5**		**No Units**	**SM18 2710 F**	**12/30/97**	**7364206**
	Dilution Factor: 1					
Total Halogens	**2.3**	**1.0**	**%**	**ASTM D 2361-91**	**12/19-12/23/97**	**7353131**
	Dilution Factor: 1					

NOTE(S):

RL Reporting Limit

NEG Negative

Results and reporting limits have been adjusted for dry weight.

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB4 (14-16')

General Chemistry

Lot-Sample #...: A7L150124-006 **Work Order #...:** CEJCQ **Matrix.....:** SOLID
Date Sampled...: 12/12/97 15:30 **Date Received..:** 12/13/97
% Moisture.....: 4.3

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
DI Leachable pH	**9.2**		**No Units**	**MCAWW 150.1**	**12/19/97**	**7352122**

Dilution Factor: 1

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB4 (14-16')

TCLP General Chemistry

Lot-Sample #...: A7L150124-006 **Work Order #...:** CEJCQ **Matrix.....:** SOLID
Date Sampled...: 12/12/97 15:30 **Date Received..:** 12/13/97
% Moisture.....: 4.3 **Leach Date.....:** 12/31/97 **Leach Batch #..:** P736404

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium	ND	0.02	mg/L	SW846 7196A	12/31/97	7365134

Dilution Factor: 1

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB6 (3-5')

GC/MS Volatiles

Lot-Sample #...: A7L150124-007 **Work Order #...:** CEJCV102 **Matrix.....:** SOLID
Date Sampled...: 12/12/97 17:00 **Date Received..:** 12/13/97
Prep Date.....: 12/18/97 **Analysis Date..:** 12/18/97
Prep Batch #...: 7353121
Dilution Factor: 1
% Moisture.....: 26

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acrolein	ND	140	ug/kg	SW846 8260A
Acrylonitrile	ND	140	ug/kg	SW846 8260A
Benzene	ND	6.8	ug/kg	SW846 8260A
Bromoform	ND	6.8	ug/kg	SW846 8260A
Bromomethane	ND	14	ug/kg	SW846 8260A
Carbon tetrachloride	ND	6.8	ug/kg	SW846 8260A
Chlorobenzene	ND	6.8	ug/kg	SW846 8260A
Chlorodibromomethane	ND	6.8	ug/kg	SW846 8260A
Chloroethane	ND	14	ug/kg	SW846 8260A
Chloroform	ND	6.8	ug/kg	SW846 8260A
Chloromethane	ND	14	ug/kg	SW846 8260A
Dichlorobromomethane	ND	6.8	ug/kg	SW846 8260A
1,1-Dichloroethane	ND	6.8	ug/kg	SW846 8260A
1,2-Dichloroethane	ND	6.8	ug/kg	SW846 8260A
1,1-Dichloroethene	ND	6.8	ug/kg	SW846 8260A
1,2-Dichloroethene (total)	**9.0**	**6.8**	**ug/kg**	**SW846 8260A**
1,2-Dichloropropane	ND	6.8	ug/kg	SW846 8260A
cis-1,3-Dichloropropene	ND	6.8	ug/kg	SW846 8260A
trans-1,3-Dichloropropene	ND	6.8	ug/kg	SW846 8260A
Ethylbenzene	ND	6.8	ug/kg	SW846 8260A
Methylene chloride	**54**	**6.8**	**ug/kg**	**SW846 8260A**
1,1,2,2-Tetrachloroethane	ND	6.8	ug/kg	SW846 8260A
Tetrachloroethene	ND	6.8	ug/kg	SW846 8260A
Toluene	ND	6.8	ug/kg	SW846 8260A
1,1,1-Trichloroethane	ND	6.8	ug/kg	SW846 8260A
1,1,2-Trichloroethane	ND	6.8	ug/kg	SW846 8260A
Trichloroethene	**64**	**6.8**	**ug/kg**	**SW846 8260A**
Vinyl chloride	ND	14	ug/kg	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	101	(61 - 115)
Toluene-d8	92	(82 - 129)
Bromofluorobenzene	87	(64 - 112)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB6 (3-5')

TCLP GC/MS Volatiles

Lot-Sample #...: A7L150124-007 **Work Order #...:** CEJCV122 **Matrix.....:** SOLID
Date Sampled...: 12/12/97 17:00 **Date Received..:** 12/13/97
Leach Date.....: 12/24/97 **Prep Date.....:** 01/05/98 **Analysis Date..:** 01/05/98
Leach Batch #..: P735702 **Prep Batch #...:** 7358177
Dilution Factor: 1
% Moisture.....: 26

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	0.025	mg/L	SW846 8260A
Carbon tetrachloride	ND	0.025	mg/L	SW846 8260A
Chlorobenzene	ND	0.025	mg/L	SW846 8260A
Chloroform	ND	0.025	mg/L	SW846 8260A
1,2-Dichloroethane	ND	0.025	mg/L	SW846 8260A
1,1-Dichloroethylene	ND	0.070	mg/L	SW846 8260A
Methyl ethyl ketone	ND	0.050	mg/L	SW846 8260A
Tetrachloroethylene	ND	0.025	mg/L	SW846 8260A
Trichloroethylene	ND	0.025	mg/L	SW846 8260A
Vinyl chloride	ND	0.050	mg/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	103	(61 - 115)
Toluene-d8	96	(82 - 129)
Bromofluorobenzene	91	(64 - 112)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB6 (3-5')

TCLP GC/MS Semivolatiles

Lot-Sample #...: A7L150124-007 **Work Order #...:** CEJCV128 **Matrix.....:** SOLID
Date Sampled...: 12/12/97 17:00 **Date Received..:** 12/13/97
Leach Date.....: 12/19/97 **Prep Date.....:** 12/21/97 **Analysis Date..:** 12/26/97
Leach Batch #..: P735203 **Prep Batch #...:** 7355101
Dilution Factor: 1
% Moisture.....: 26

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Nitrobenzene	ND	0.050	mg/L	SW846 8270B
Pentachlorophenol	ND	0.25	mg/L	SW846 8270B
Pyridine	ND	0.10	mg/L	SW846 8270B
2,4,5-Trichlorophenol	ND	0.25	mg/L	SW846 8270B
2,4,6-Trichlorophenol	ND	0.050	mg/L	SW846 8270B
m-Cresol & p-Cresol	ND	0.10	mg/L	SW846 8270B
1,4-Dichlorobenzene	ND	0.050	mg/L	SW846 8270B
2,4-Dinitrotoluene	ND	0.050	mg/L	SW846 8270B
Hexachlorobenzene	ND	0.050	mg/L	SW846 8270B
Hexachlorobutadiene	ND	0.050	mg/L	SW846 8270B
Hexachloroethane	ND	0.050	mg/L	SW846 8270B
o-Cresol	ND	0.050	mg/L	SW846 8270B
Phenol	ND	0.050	mg/L	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	64	(44 - 110)
2-Fluorobiphenyl	60	(50 - 105)
Terphenyl-d14	82	(11 - 158)
Phenol-d5	65	(0.0- 131)
2-Fluorophenol	61	(0.0- 130)
2,4,6-Tribromophenol	83	(0.0- 156)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB6 (3-5')

GC Semivolatiles

Lot-Sample #...: A7L150124-007 **Work Order #...:** CEJCV125 **Matrix.....:** SOLID
Date Sampled...: 12/12/97 17:00 **Date Received..:** 12/13/97
Prep Date.....: 12/15/97 **Analysis Date..:** 12/18/97
Prep Batch #...: 7349234
Dilution Factor: 1
% Moisture.....: 26

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	23	ug/kg	SW846 8080A
Aroclor 1221	ND	23	ug/kg	SW846 8080A
Aroclor 1232	ND	23	ug/kg	SW846 8080A
Aroclor 1242	ND	23	ug/kg	SW846 8080A
Aroclor 1248	ND	23	ug/kg	SW846 8080A
Aroclor 1254	ND	45	ug/kg	SW846 8080A
Aroclor 1260	ND	45	ug/kg	SW846 8080A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	156 *	(8.0- 129)
Decachlorobiphenyl	136	(0.0- 138)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB6 (3-5')

TOTAL Metals

Lot-Sample #...: A7L150124-007 **Matrix.....:** SOLID
Date Sampled...: 12/12/97 17:00 **Date Received..:** 12/13/97
% Moisture.....: 26

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7352248						
Trivalent Chromium	ND	0.10	mg/L	SW846 7196A	12/19-12/22/97	CEJCV11C

Dilution Factor: 1

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB6 (3-5')

TCLP Metals

Lot-Sample #...: A7L150124-007 **Matrix.....:** SOLID
Date Sampled...: 12/12/97 17:00 **Date Received..:** 12/13/97
Leach Date.....: 12/19/97 **Leach Batch #..:** P735203

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7352247						
Silver	ND	0.50	mg/L	SW846 6010A	12/19-12/22/97	CEJCV105
		Dilution Factor: 1				
Arsenic	ND	0.50	mg/L	SW846 6010A	12/19-12/22/97	CEJCV108
		Dilution Factor: 1				
Barium	ND	10.0	mg/L	SW846 6010A	12/19-12/22/97	CEJCV10C
		Dilution Factor: 1				
Cadmium	ND	0.10	mg/L	SW846 6010A	12/19-12/22/97	CEJCV10F
		Dilution Factor: 1				
Chromium	ND	0.50	mg/L	SW846 6010A	12/19-12/22/97	CEJCV10J
		Dilution Factor: 1				
Lead	ND	0.50	mg/L	SW846 6010A	12/19-12/22/97	CEJCV10M
		Dilution Factor: 1				
Selenium	ND	0.25	mg/L	SW846 6010A	12/19-12/22/97	CEJCV10Q
		Dilution Factor: 1				
Copper	ND	1.0	mg/L	SW846 6010A	12/19-12/22/97	CEJCV10U
		Dilution Factor: 1				
Nickel	ND	0.040	mg/L	SW846 6010A	12/19-12/22/97	CEJCV10X
		Dilution Factor: 1				
Mercury	ND	0.0020	mg/L	SW846 7470A	12/19-12/22/97	CEJCV115
		Dilution Factor: 1				
Zinc	ND	1.0	mg/L	SW846 6010A	12/19-12/22/97	CEJCV112
		Dilution Factor: 1				

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB6 (3-5')

General Chemistry

Lot-Sample #...: A7L150124-007 **Work Order #...:** CEJCV **Matrix.....:** SOLID
Date Sampled...: 12/12/97 17:00 **Date Received..:** 12/13/97
% Moisture.....: 26

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Ignitability	**NEG**		**No Units**	**SW846 SECTION 7.1**	**12/30/97**	**7364198**
	Dilution Factor: 1					
Paint Filter Test	**NEG**		**No Units**	**SW846 9095**	**12/18/97**	**7352163**
	Dilution Factor: 1					
Percent Solids	**74.0**	**0.10**	**%**	**MCAWW 160.3 MOD**	**12/16-12/17/97**	**7350115**
	Dilution Factor: 1					
Reactive Cyanide	ND	270	mg/kg	SW846 7.3.3	12/17/97	7351210
	Dilution Factor: 1					
Reactive Sulfide	ND	270	mg/kg	SW846 7.3.4	12/17/97	7351208
	Dilution Factor: 1					
Specific Gravity	**1.5**		**No Units**	**SM18 2710 F**	**12/30/97**	**7364206**
	Dilution Factor: 1					
Total Halogens	ND	1.0	%	ASTM D 2361-91	12/19-12/23/97	7353131
	Dilution Factor: 1					

NOTE(S):

RL Reporting Limit

NEG Negative

Results and reporting limits have been adjusted for dry weight.

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB6 (3-5')

General Chemistry

Lot-Sample #...: A7L150124-007 **Work Order #...:** CEJCV **Matrix.....:** SOLID
Date Sampled...: 12/12/97 17:00 **Date Received..:** 12/13/97
% Moisture.....: 26

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
DI Leachable pH	**7.2**		**No Units**	**MCAWW 150.1**	**12/19/97**	**7352122**
	Dilution Factor: 1					

COMPUCHEM ENVIRONMENTAL

Client Sample ID: TB6 (3-5')

TCLP General Chemistry

Lot-Sample #...: A7L150124-007 **Work Order #...:** CEJCV **Matrix.....:** SOLID
Date Sampled...: 12/12/97 17:00 **Date Received..:** 12/13/97
% Moisture.....: 26 **Leach Date.....:** 12/31/97 **Leach Batch #..:** P736404

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium	ND	0.02	mg/L	SW846 7196A	12/31/97	7365134

Dilution Factor: 1

QUALITY CONTROL SECTION

QUALITY CONTROL ELEMENTS OF SW-846 METHODS

Quanterra® Incorporated conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. Quanterra requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples. These QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. The only exception is that if the LCS recoveries are biased high and the associated sample is ND for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). Failure of the RPDs to fall within the laboratory-generated acceptance windows requires the repreparation and reanalysis of all samples in the QC batch. The only exception is that if the MS/MSD RPDs are within acceptance criteria, the batch is acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except for the common laboratory contaminants indicated below.

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals
Methylene chloride	Phthalate Esters	Copper
Acetone		Iron
2-Butanone		Zinc
		Lead*

** for analyses run on TJA Trace ICP or GFAA only*

QUALITY CONTROL ELEMENTS OF SW-846 METHODS (continued)

METHOD BLANK (continued)

The listed volatile and semivolatile compounds may be present in concentrations up to 5 times the reporting limits. The listed metals may be present in concentrations up to 2 times the reporting limit or must be twenty fold less than the results of the environmental samples. Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. When these values fail to meet acceptance criteria, the data is reviewed to determine the cause. If, in the analyst's judgment, sample matrix effects are indicated, no corrective action is performed. Otherwise, the MS/MSD and the environmental sample used to prepare them are reprepared and reanalyzed.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample are spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

The acceptance criteria do not apply to samples that are diluted. If the dilution is more than 5X, the recoveries will be reported as diluted out. All other surrogate recoveries will be reported. If the LCS, LCSD, or the Method Blank surrogates fail to meet recovery criteria (exception for dilutions), the entire batch of samples is reprepared and reanalyzed.

If the surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank and the associated sample(s) are ND, the batch is acceptable. If the surrogate recoveries are outside criteria for environmental or MS/MSD samples, the batch may be acceptable based on the analyst's judgment that sample matrix effects are indicated.

For the GC/MS BNA methods, the surrogate criteria is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide/PCB, PAH, TPH, and Herbicide methods, the surrogate criteria is that one of two surrogate compounds meet acceptance criteria.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A7L150124 **Work Order #...:** CELXK102 **Matrix.....:** SOLID
LCS Lot-Sample#: A7L190000-121
Prep Date.....: 12/18/97 **Analysis Date..:** 12/18/97
Prep Batch #...: 7353121
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	116	(60 - 119)	SW846 8260A
Trichloroethene	106	(74 - 115)	SW846 8260A
Chlorobenzene	94	(85 - 116)	SW846 8260A
Toluene	101	(87 - 118)	SW846 8260A
Benzene	100	(83 - 118)	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	99	(61 - 115)
Toluene-d8	94	(82 - 129)
Bromofluorobenzene	89	(64 - 112)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A7L150124 **Work Order #...:** CEP5W102 **Matrix.....:** WATER
LCS Lot-Sample#: A7L240000-160
Prep Date.....: 12/24/97 **Analysis Date..:** 12/24/97
Prep Batch #...: 7358160
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	102	(60 - 109)	SW846 8260A
Trichloroethene	101	(75 - 119)	SW846 8260A
Chlorobenzene	102	(76 - 120)	SW846 8260A
Toluene	106	(76 - 119)	SW846 8260A
Benzene	102	(73 - 118)	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	109	(73 - 115)
Toluene-d8	98	(90 - 110)
Bromofluorobenzene	100	(87 - 110)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A7L150124 **Work Order #...:** CEP99101 **Matrix.....:** SOLID
LCS Lot-Sample#: A7L240000-177
Prep Date.....: 01/05/98 **Analysis Date..:** 01/05/98
Prep Batch #...: 7358177
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethylene	103	(60 - 119)	SW846 8260A
Trichloroethylene	107	(74 - 115)	SW846 8260A
Chlorobenzene	109	(85 - 116)	SW846 8260A
Benzene	108	(83 - 118)	SW846 8260A
Toluene	129 a	(87 - 118)	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	105	(61 - 115)
Toluene-d8	96	(82 - 129)
Bromofluorobenzene	90	(64 - 112)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A7L150124 **Work Order #...:** CEMVR102 **Matrix.....:** SOLID
LCS Lot-Sample#: A7L210000-101
Prep Date.....: 12/21/97 **Analysis Date..:** 12/26/97
Prep Batch #...: 7355101
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,4-Dichlorobenzene	68	(34 - 113)	SW846 8270B
2,4-Dinitrotoluene	102	(41 - 154)	SW846 8270B
Hexachlorobenzene	85	(57 - 118)	SW846 8270B
Hexachlorobutadiene	68	(44 - 104)	SW846 8270B
Hexachloroethane	63	(39 - 96)	SW846 8270B
Nitrobenzene	81	(49 - 111)	SW846 8270B
Pentachlorophenol	80	(24 - 145)	SW846 8270B
Pyridine	38	(0.0- 99)	SW846 8270B
2,4,5-Trichlorophenol	90	(43 - 118)	SW846 8270B
2,4,6-Trichlorophenol	78	(45 - 102)	SW846 8270B
Cresols (total)	86	(46 - 109)	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	82	(44 - 110)
2-Fluorobiphenyl	76	(50 - 105)
Terphenyl-d14	105	(11 - 158)
Phenol-d5	88	(0.0- 131)
2-Fluorophenol	84	(0.0- 130)
2,4,6-Tribromophenol	106	(0.0- 156)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A7L150124 **Work Order #...:** CEPWJ102 **Matrix.....:** SOLID
LCS Lot-Sample#: A7L300000-109
Prep Date.....: 12/30/97 **Analysis Date..:** 01/05/98
Prep Batch #...: 7364109
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,4-Dichlorobenzene	74	(34 - 113)	SW846 8270B
2,4-Dinitrotoluene	81	(41 - 154)	SW846 8270B
Hexachlorobenzene	71	(57 - 118)	SW846 8270B
Hexachlorobutadiene	66	(44 - 104)	SW846 8270B
Hexachloroethane	67	(39 - 96)	SW846 8270B
Nitrobenzene	63	(49 - 111)	SW846 8270B
Pentachlorophenol	71	(24 - 145)	SW846 8270B
Pyridine	31	(0.0- 99)	SW846 8270B
2,4,5-Trichlorophenol	69	(43 - 118)	SW846 8270B
2,4,6-Trichlorophenol	68	(45 - 102)	SW846 8270B
Cresols (total)	75	(46 - 109)	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	66	(44 - 110)
2-Fluorobiphenyl	77	(50 - 105)
Terphenyl-d14	113	(11 - 158)
Phenol-d5	79	(0.0- 131)
2-Fluorophenol	75	(0.0- 130)
2,4,6-Tribromophenol	85	(0.0- 156)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A7L150124 **Work Order #...:** CEJGW102 **Matrix.....:** SOLID
LCS Lot-Sample#: A7L150000-234
Prep Date.....: 12/15/97 **Analysis Date..:** 12/18/97
Prep Batch #...: 7349234
Dilution Factor: 5

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Aroclor 1016	105	(60 - 133)	SW846 8080A
Aroclor 1260	97	(59 - 129)	SW846 8080A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	111	(8.0- 129)
Decachlorobiphenyl	97	(0.0- 138)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TCLP Metals

Client Lot #...: A7L150124 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A7L180000-247 **Prep Batch #...:** 7352247					
Barium	99	(50 - 150)	SW846 6010A	12/19/97	CELR210D
		Dilution Factor: 1			
Cadmium	114	(50 - 150)	SW846 6010A	12/19/97	CELR210E
		Dilution Factor: 1			
Chromium	111	(50 - 150)	SW846 6010A	12/19/97	CELR210F
		Dilution Factor: 1			
Lead	107	(50 - 150)	SW846 6010A	12/19/97	CELR210G
		Dilution Factor: 1			
Selenium	100	(50 - 150)	SW846 6010A	12/19/97	CELR210H
		Dilution Factor: 1			
Copper	99	(50 - 150)	SW846 6010A	12/19/97	CELR210J
		Dilution Factor: 1			
Nickel	111	(50 - 150)	SW846 6010A	12/19/97	CELR210K
		Dilution Factor: 1			
Silver	105	(50 - 150)	SW846 6010A	12/19/97	CELR210L
		Dilution Factor: 1			
Arsenic	108	(50 - 150)	SW846 6010A	12/19/97	CELR210M
		Dilution Factor: 1			
Zinc	112	(50 - 150)	SW846 6010A	12/19/97	CELR210N
		Dilution Factor: 1			
Mercury	91	(50 - 150)	SW846 7470A	12/19-12/22/97	CELR210P
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A7L150124 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium		Work Order #: CEQC9102	LCS Lot-Sample#: A7L310000-134		
	104	(75 - 125)	SW846 7196A	12/31/97	7365134

Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A7L150124 **Work Order #...:** CELXK101 **Matrix.....:** SOLID
MB Lot-Sample #: A7L190000-121

Prep Date.....: 12/18/97
Analysis Date..: 12/18/97 **Prep Batch #...:** 7353121
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acrolein	ND	100	ug/kg	SW846 8260A
Acrylonitrile	ND	100	ug/kg	SW846 8260A
Benzene	ND	5.0	ug/kg	SW846 8260A
Bromoform	ND	5.0	ug/kg	SW846 8260A
Bromomethane	ND	10	ug/kg	SW846 8260A
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260A
Chlorobenzene	ND	5.0	ug/kg	SW846 8260A
Chlorodibromomethane	ND	5.0	ug/kg	SW846 8260A
Chloroethane	ND	10	ug/kg	SW846 8260A
Chloroform	ND	5.0	ug/kg	SW846 8260A
Chloromethane	ND	10	ug/kg	SW846 8260A
Dichlorobromomethane	ND	5.0	ug/kg	SW846 8260A
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloroethene (total)	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260A
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
Ethylbenzene	ND	5.0	ug/kg	SW846 8260A
Methylene chloride	ND	5.0	ug/kg	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260A
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260A
Toluene	ND	5.0	ug/kg	SW846 8260A
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
Trichloroethene	ND	5.0	ug/kg	SW846 8260A
Vinyl chloride	ND	10	ug/kg	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	95	(61 - 115)
Toluene-d8	93	(82 - 129)
Bromofluorobenzene	91	(64 - 112)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

TCLP GC/MS Volatiles

Client Lot #...: A7L150124 **Work Order #...:** CENN4101 **Matrix.....:** SOLID
MB Lot-Sample #: A7L230000-171
Leach Date.....: 12/24/97 **Prep Date.....:** 01/05/98 **Analysis Date..:** 01/05/98
Leach Batch #..: P735702 **Prep Batch #...:** 7358177
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	0.025	mg/L	SW846 8260A
Carbon tetrachloride	ND	0.025	mg/L	SW846 8260A
Chlorobenzene	ND	0.025	mg/L	SW846 8260A
Chloroform	ND	0.025	mg/L	SW846 8260A
1,2-Dichloroethane	ND	0.025	mg/L	SW846 8260A
1,1-Dichloroethylene	ND	0.070	mg/L	SW846 8260A
Methyl ethyl ketone	ND	0.050	mg/L	SW846 8260A
Tetrachloroethylene	ND	0.025	mg/L	SW846 8260A
Trichloroethylene	ND	0.025	mg/L	SW846 8260A
Vinyl chloride	ND	0.050	mg/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	103	(61 - 115)
Toluene-d8	97	(82 - 129)
Bromofluorobenzene	91	(64 - 112)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A7L150124 **Work Order #...:** CEP5W101 **Matrix.....:** WATER
MB Lot-Sample #: A7L240000-160

Prep Date.....: 12/24/97
Analysis Date..: 12/24/97 **Prep Batch #...:** 7358160
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acrolein	ND	100	ug/L	SW846 8260A
Acrylonitrile	ND	100	ug/L	SW846 8260A
Benzene	ND	5.0	ug/L	SW846 8260A
Bromoform	ND	5.0	ug/L	SW846 8260A
Bromomethane	ND	10	ug/L	SW846 8260A
Carbon tetrachloride	ND	5.0	ug/L	SW846 8260A
Chlorobenzene	ND	5.0	ug/L	SW846 8260A
Chlorodibromomethane	ND	5.0	ug/L	SW846 8260A
Chloroethane	ND	10	ug/L	SW846 8260A
Chloroform	ND	5.0	ug/L	SW846 8260A
Chloromethane	ND	10	ug/L	SW846 8260A
Dichlorobromomethane	ND	5.0	ug/L	SW846 8260A
1,1-Dichloroethane	ND	5.0	ug/L	SW846 8260A
1,2-Dichloroethane	ND	5.0	ug/L	SW846 8260A
1,1-Dichloroethene	ND	5.0	ug/L	SW846 8260A
1,2-Dichloroethene (total)	ND	5.0	ug/L	SW846 8260A
1,2-Dichloropropane	ND	5.0	ug/L	SW846 8260A
cis-1,3-Dichloropropene	ND	5.0	ug/L	SW846 8260A
trans-1,3-Dichloropropene	ND	5.0	ug/L	SW846 8260A
Ethylbenzene	ND	5.0	ug/L	SW846 8260A
Methylene chloride	ND	5.0	ug/L	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	SW846 8260A
Tetrachloroethene	ND	5.0	ug/L	SW846 8260A
Toluene	ND	5.0	ug/L	SW846 8260A
1,1,1-Trichloroethane	ND	5.0	ug/L	SW846 8260A
1,1,2-Trichloroethane	ND	5.0	ug/L	SW846 8260A
Trichloroethene	ND	5.0	ug/L	SW846 8260A
Vinyl chloride	ND	10	ug/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	103	(73 - 115)
Toluene-d8	95	(90 - 110)
Bromofluorobenzene	97	(87 - 110)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

TCLP GC/MS Semivolatiles

Client Lot #...: A7L150124 **Work Order #...:** CEMVR101 **Matrix.....:** SOLID
MB Lot-Sample #: A7L210000-101
Leach Date.....: 12/19/97 **Prep Date.....:** 12/21/97 **Analysis Date..:** 12/26/97
Leach Batch #..: P735203 **Prep Batch #...:** 7355101
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Nitrobenzene	ND	0.050	mg/L	SW846 8270B
Pentachlorophenol	ND	0.25	mg/L	SW846 8270B
Pyridine	ND	0.10	mg/L	SW846 8270B
2,4,5-Trichlorophenol	ND	0.25	mg/L	SW846 8270B
2,4,6-Trichlorophenol	ND	0.050	mg/L	SW846 8270B
m-Cresol & p-Cresol	ND	0.10	mg/L	SW846 8270B
1,4-Dichlorobenzene	ND	0.050	mg/L	SW846 8270B
2,4-Dinitrotoluene	ND	0.050	mg/L	SW846 8270B
Hexachlorobenzene	ND	0.050	mg/L	SW846 8270B
Hexachlorobutadiene	ND	0.050	mg/L	SW846 8270B
Hexachloroethane	ND	0.050	mg/L	SW846 8270B
o-Cresol	ND	0.050	mg/L	SW846 8270B
Phenol	ND	0.050	mg/L	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	76	(44 - 110)
2-Fluorobiphenyl	74	(50 - 105)
Terphenyl-d14	94	(11 - 158)
Phenol-d5	89	(0.0- 131)
2-Fluorophenol	81	(0.0- 130)
2,4,6-Tribromophenol	95	(0.0- 156)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

TCLP GC/MS Semivolatiles

Client Lot #...: A7L150124 **Work Order #...:** CEPWJ101 **Matrix.....:** SOLID
MB Lot-Sample #: A7L300000-109
Leach Date.....: 12/19/97 **Prep Date.....:** 12/30/97 **Analysis Date..:** 01/05/98
Leach Batch #..: P735203 **Prep Batch #...:** 7364109
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Nitrobenzene	ND	0.050	mg/L	SW846 8270B
Pentachlorophenol	ND	0.25	mg/L	SW846 8270B
Pyridine	ND	0.10	mg/L	SW846 8270B
2,4,5-Trichlorophenol	ND	0.25	mg/L	SW846 8270B
2,4,6-Trichlorophenol	ND	0.050	mg/L	SW846 8270B
m-Cresol & p-Cresol	ND	0.10	mg/L	SW846 8270B
1,4-Dichlorobenzene	ND	0.050	mg/L	SW846 8270B
2,4-Dinitrotoluene	ND	0.050	mg/L	SW846 8270B
Hexachlorobenzene	ND	0.050	mg/L	SW846 8270B
Hexachlorobutadiene	ND	0.050	mg/L	SW846 8270B
Hexachloroethane	ND	0.050	mg/L	SW846 8270B
o-Cresol	ND	0.050	mg/L	SW846 8270B
Phenol	ND	0.050	mg/L	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	55	(44 - 110)
2-Fluorobiphenyl	64	(50 - 105)
Terphenyl-d14	103	(11 - 158)
Phenol-d5	62	(0.0- 131)
2-Fluorophenol	61	(0.0- 130)
2,4,6-Tribromophenol	75	(0.0- 156)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: A7L150124 **Work Order #...:** CEJGW101 **Matrix.....:** SOLID
MB Lot-Sample #: A7L150000-234

Prep Date.....: 12/15/97
Analysis Date..: 12/18/97 **Prep Batch #...:** 7349234
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	17	ug/kg	SW846 8080A
Aroclor 1221	ND	17	ug/kg	SW846 8080A
Aroclor 1232	ND	17	ug/kg	SW846 8080A
Aroclor 1242	ND	17	ug/kg	SW846 8080A
Aroclor 1248	ND	17	ug/kg	SW846 8080A
Aroclor 1254	ND	33	ug/kg	SW846 8080A
Aroclor 1260	ND	33	ug/kg	SW846 8080A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	94	(8.0- 129)
Decachlorobiphenyl	86	(0.0- 138)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

TCLP Metals

Client Lot #...: A7L150124 **Matrix.....:** SOLID

MB Lot-Sample #: A7L180000-187 **Prep Batch #...:** 7352247
Leach Date.....: 12/19/97 **Leach Batch #..:** P735203

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	ND	0.50	mg/L	SW846 6010A	12/19/97	CELDV105
		Dilution Factor: 1				
Arsenic	ND	0.50	mg/L	SW846 6010A	12/19/97	CELDV106
		Dilution Factor: 1				
Barium	ND	10.0	mg/L	SW846 6010A	12/19/97	CELDV107
		Dilution Factor: 1				
Cadmium	ND	0.10	mg/L	SW846 6010A	12/19/97	CELDV108
		Dilution Factor: 1				
Chromium	ND	0.50	mg/L	SW846 6010A	12/19/97	CELDV109
		Dilution Factor: 1				
Lead	ND	0.50	mg/L	SW846 6010A	12/19/97	CELDV10A
		Dilution Factor: 1				
Selenium	ND	0.25	mg/L	SW846 6010A	12/19/97	CELDV10C
		Dilution Factor: 1				
Copper	ND	1.0	mg/L	SW846 6010A	12/19/97	CELDV101
		Dilution Factor: 1				
Nickel	ND	0.040	mg/L	SW846 6010A	12/19/97	CELDV102
		Dilution Factor: 1				
Mercury	ND	0.0020	mg/L	SW846 7470A	12/19-12/22/97	CELDV104
		Dilution Factor: 1				
Zinc	ND	1.0	mg/L	SW846 6010A	12/19/97	CELDV103
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

TCLP Metals

Client Lot #...: A7L150124 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A7L180000-247 **Prep Batch #...:** 7352247						
Silver	ND	0.50	mg/L	SW846 6010A	12/19/97	CELR2108
		Dilution Factor: 1				
Arsenic	ND	0.50	mg/L	SW846 6010A	12/19/97	CELR2109
		Dilution Factor: 1				
Barium	ND	10.0	mg/L	SW846 6010A	12/19/97	CELR2101
		Dilution Factor: 1				
Cadmium	ND	0.10	mg/L	SW846 6010A	12/19/97	CELR2102
		Dilution Factor: 1				
Chromium	ND	0.50	mg/L	SW846 6010A	12/19/97	CELR2103
		Dilution Factor: 1				
Lead	ND	0.50	mg/L	SW846 6010A	12/19/97	CELR2104
		Dilution Factor: 1				
Selenium	ND	0.25	mg/L	SW846 6010A	12/19/97	CELR2105
		Dilution Factor: 1				
Copper	ND	1.0	mg/L	SW846 6010A	12/19/97	CELR2106
		Dilution Factor: 1				
Nickel	ND	0.040	mg/L	SW846 6010A	12/19/97	CELR2107
		Dilution Factor: 1				
Mercury	ND	0.0020	mg/L	SW846 7470A	12/19-12/22/97	CELR210C
		Dilution Factor: 1				
Zinc	ND	1.0	mg/L	SW846 6010A	12/19/97	CELR210A
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A7L150124 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids		Work Order #: CEJLJ101		MB Lot-Sample #:	A7L160000-115	
	ND	0.10	%	MCAWW 160.3 MOD	12/16-12/17/97	7350115
		Dilution Factor: 1				
Reactive Cyanide		Work Order #: CEKHL101		MB Lot-Sample #:	A7L170000-210	
	ND	200	mg/kg	SW846 7.3.3	12/17/97	7351210
		Dilution Factor: 1				
Reactive Sulfide		Work Order #: CEKHG101		MB Lot-Sample #:	A7L170000-208	
	ND	200	mg/kg	SW846 7.3.4	12/17/97	7351208
		Dilution Factor: 1				
Total Halogens		Work Order #: CEM08101		MB Lot-Sample #:	C7L190000-131	
	ND	1.0	%	ASTM D 2361-91	12/19-12/23/97	7353131
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A7L150124 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium		Work Order #: CEQC9101		MB Lot-Sample #:	A7L310000-134	
	ND	0.02	mg/L	SW846 7196A	12/31/97	7365134

Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A7L150124 **Work Order #...:** CEJCV103-MS **Matrix.....:** SOLID
MS Lot-Sample #: A7L150124-007 CEJCV104-MSD
Date Sampled...: 12/12/97 17:00 **Date Received..:** 12/13/97
Prep Date.....: 12/18/97 **Analysis Date..:** 12/18/97
Prep Batch #...: 7353121
Dilution Factor: 1 **% Moisture.....:** 26

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	100	(78 - 117)			SW846 8260A
	101	(78 - 117)	1.8	(0-17)	SW846 8260A
Chlorobenzene	93	(81 - 115)			SW846 8260A
	95	(81 - 115)	2.4	(0-18)	SW846 8260A
1,1-Dichloroethene	115 a	(75 - 113)			SW846 8260A
	116 a	(75 - 113)	0.66	(0-20)	SW846 8260A
Toluene	97	(78 - 126)			SW846 8260A
	101	(78 - 126)	3.8	(0-24)	SW846 8260A
Trichloroethene	97	(71 - 110)			SW846 8260A
	71	(71 - 110)	14	(0-22)	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	108	(61 - 115)
	106	(61 - 115)
Toluene-d8	93	(82 - 129)
	96	(82 - 129)
Bromofluorobenzene	86	(64 - 112)
	89	(64 - 112)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP GC/MS Volatiles

Client Lot #...: A7L150124 **Work Order #...:** CEKK5129-MS **Matrix.....:** SOLID
MS Lot-Sample #: A7L170124-004 CEKK512A-MSD
Date Sampled...: 12/13/97 10:50 **Date Received..:** 12/16/97
Leach Date.....: 12/24/97 **Prep Date.....:** 01/06/98 **Analysis Date..:** 01/06/98
Leach Batch #..: P735702 **Prep Batch #...:** 7358177
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethylene	110	(75 - 113)			SW846 8260A
	111	(75 - 113)	0.99	(0-20)	SW846 8260A
Trichloroethylene	105	(71 - 110)			SW846 8260A
	108	(71 - 110)	2.8	(0-22)	SW846 8260A
Chlorobenzene	103	(81 - 115)			SW846 8260A
	104	(81 - 115)	0.37	(0-18)	SW846 8260A
Benzene	101	(78 - 117)			SW846 8260A
	102	(78 - 117)	1.0	(0-17)	SW846 8260A
Toluene	101	(78 - 126)			SW846 8260A
	104	(78 - 126)	2.6	(0-24)	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	91	(61 - 115)
	92	(61 - 115)
Toluene-d8	97	(82 - 129)
	98	(82 - 129)
Bromofluorobenzene	89	(64 - 112)
	87	(64 - 112)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A7L150124 **Work Order #...:** CEMED102-MS **Matrix.....:** WATER
MS Lot-Sample #: A7L190161-005 CEMED103-MSD
Date Sampled...: 12/13/97 08:46 **Date Received..:** 12/19/97
Prep Date.....: 12/24/97 **Analysis Date..:** 12/24/97
Prep Batch #...: 7358160
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	95	(75 - 113)			SW846 8260A
	101	(75 - 113)	6.6	(0-20)	SW846 8260A
Trichloroethene	98	(71 - 110)			SW846 8260A
	97	(71 - 110)	1.2	(0-22)	SW846 8260A
Chlorobenzene	100	(81 - 115)			SW846 8260A
	99	(81 - 115)	1.3	(0-18)	SW846 8260A
Toluene	106	(78 - 126)			SW846 8260A
	101	(78 - 126)	4.1	(0-24)	SW846 8260A
Benzene	104	(78 - 117)			SW846 8260A
	104	(78 - 117)	0.83	(0-17)	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	111	(73 - 115)
	109	(73 - 115)
Toluene-d8	98	(90 - 110)
	98	(90 - 110)
Bromofluorobenzene	102	(87 - 110)
	101	(87 - 110)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP GC/MS Semivolatiles

Client Lot #...: A7L150124 **Work Order #...:** CEJCJ10X-MS **Matrix.....:** SOLID
MS Lot-Sample #: A7L150124-003 CEJCJ110-MSD
Date Sampled...: 12/11/97 13:20 **Date Received..:** 12/13/97
Leach Date.....: 12/19/97 **Prep Date.....:** 12/21/97 **Analysis Date..:** 12/26/97
Leach Batch #..: P735203 **Prep Batch #...:** 7355101
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Cresols (total)	57	(22 - 115)			SW846 8270B
	71	(22 - 115)	22	(0-43)	SW846 8270B
Nitrobenzene	78	(40 - 118)			SW846 8270B
	95	(40 - 118)	20	(0-25)	SW846 8270B
Pentachlorophenol	57	(10 - 148)			SW846 8270B
	89	(10 - 148)	43	(0-75)	SW846 8270B
Pyridine	22	(22 - 96)			SW846 8270B
	38	(22 - 96)	51	(0-52)	SW846 8270B
2,4,5-Trichlorophenol	71	(25 - 136)			SW846 8270B
	68	(25 - 136)	4.1	(0-62)	SW846 8270B
2,4,6-Trichlorophenol	49	(20 - 127)			SW846 8270B
	59	(20 - 127)	19	(0-55)	SW846 8270B
1,4-Dichlorobenzene	55	(34 - 105)			SW846 8270B
	73 p	(34 - 105)	28	(0-21)	SW846 8270B
2,4-Dinitrotoluene	95	(10 - 154)			SW846 8270B
	110	(10 - 154)	14	(0-42)	SW846 8270B
Hexachlorobenzene	80	(33 - 123)			SW846 8270B
	94	(33 - 123)	15	(0-23)	SW846 8270B
Hexachlorobutadiene	64	(27 - 107)			SW846 8270B
	80	(27 - 107)	22	(0-24)	SW846 8270B
Hexachloroethane	53	(24 - 107)			SW846 8270B
	70 p	(24 - 107)	28	(0-20)	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	78	(44 - 110)
	92	(44 - 110)
2-Fluorobiphenyl	72	(50 - 105)
	85	(50 - 105)
Terphenyl-d14	97	(11 - 158)
	113	(11 - 158)
Phenol-d5	55	(0.0- 131)
	49	(0.0- 131)
2-Fluorophenol	43	(0.0- 130)
	33	(0.0- 130)
2,4,6-Tribromophenol	47	(0.0- 156)
	82	(0.0- 156)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

p Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP GC/MS Semivolatiles

Client Lot #...: A7L150124 **Work Order #...:** CEJCP10V-MS **Matrix.....:** SOLID
MS Lot-Sample #: A7L150124-005 CEJCP10W-MSD
Date Sampled...: 12/12/97 14:00 **Date Received..:** 12/13/97
Leach Date.....: 12/19/97 **Prep Date.....:** 12/30/97 **Analysis Date..:** 01/05/98
Leach Batch #..: P735203 **Prep Batch #...:** 7364109
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Cresols (total)	24	(22 - 115)			SW846 8270B
	54 p	(22 - 115)	77	(0-43)	SW846 8270B
Nitrobenzene	49	(40 - 118)			SW846 8270B
	63 p	(40 - 118)	26	(0-25)	SW846 8270B
Pentachlorophenol	6.8 a	(10 - 148)			SW846 8270B
	12	(10 - 148)	58	(0-75)	SW846 8270B
Pyridine	6.3 a	(22 - 96)			SW846 8270B
	21 a,p	(22 - 96)	107	(0-52)	SW846 8270B
2,4,5-Trichlorophenol	10 a	(25 - 136)			SW846 8270B
	12 a	(25 - 136)	21	(0-62)	SW846 8270B
2,4,6-Trichlorophenol	2.8 a	(20 - 127)			SW846 8270B
	4.6 a	(20 - 127)	50	(0-55)	SW846 8270B
1,4-Dichlorobenzene	57	(34 - 105)			SW846 8270B
	73 p	(34 - 105)	25	(0-21)	SW846 8270B
2,4-Dinitrotoluene	68	(10 - 154)			SW846 8270B
	83	(10 - 154)	20	(0-42)	SW846 8270B
Hexachlorobenzene	64	(33 - 123)			SW846 8270B
	75	(33 - 123)	16	(0-23)	SW846 8270B
Hexachlorobutadiene	56	(27 - 107)			SW846 8270B
	72 p	(27 - 107)	26	(0-24)	SW846 8270B
Hexachloroethane	55	(24 - 107)			SW846 8270B
	69 p	(24 - 107)	22	(0-20)	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	54	(44 - 110)
	66	(44 - 110)
2-Fluorobiphenyl	66	(50 - 105)
	71	(50 - 105)
Terphenyl-d14	102	(11 - 158)
	113	(11 - 158)
Phenol-d5	7.2	(0.0- 131)
	22	(0.0- 131)
2-Fluorophenol	2.6	(0.0- 130)
	6.5	(0.0- 130)
2,4,6-Tribromophenol	2.6	(0.0- 156)
	3.2	(0.0- 156)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

p Relative percent difference (RPD) is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A7L150124 **Work Order #...:** CEEAV10E-MS **Matrix.....:** SOLID
MS Lot-Sample #: A7L060126-001 CEEAV10F-MSD
Date Sampled...: 12/02/97 09:43 **Date Received..:** 12/06/97
Prep Date.....: 12/15/97 **Analysis Date..:** 12/22/97
Prep Batch #...: 7349234
Dilution Factor: 5 **% Moisture.....:** 25

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	**103**	**(44 - 139)**			**SW846 8080A**
	110	**(44 - 139)**	**7.2**	**(0-28)**	**SW846 8080A**
Aroclor 1260	**101**	**(44 - 139)**			**SW846 8080A**
	112	**(44 - 139)**	**9.8**	**(0-28)**	**SW846 8080A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	110	(8.0- 129)
	111	(8.0- 129)
Decachlorobiphenyl	92	(0.0- 138)
	109	(0.0- 138)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP Metals

Client Lot #...: A7L150124 **Matrix.....:** SOLID
Date Sampled...: 12/12/97 17:00 **Date Received..:** 12/13/97

MS Lot-Sample #: A7L150124-007 **Prep Batch #...:** 7352247
Leach Date.....: 12/19/97 **Leach Batch #..:** P735203

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	109	(50 - 150)			SW846 6010A	12/19-12/22/97	CEJCV12T
	106	(50 - 150)	2.9	(0-20)	SW846 6010A	12/19-12/22/97	CEJCV12U
		Dilution Factor: 1					
Arsenic	105	(50 - 150)			SW846 6010A	12/19-12/22/97	CEJCV12V
	103	(50 - 150)	2.4	(0-20)	SW846 6010A	12/19-12/22/97	CEJCV12W
		Dilution Factor: 1					
Barium	103	(50 - 150)			SW846 6010A	12/19-12/22/97	CEJCV136
	101	(50 - 150)	2.6	(0-20)	SW846 6010A	12/19-12/22/97	CEJCV137
		Dilution Factor: 1					
Cadmium	98	(50 - 150)			SW846 6010A	12/19-12/22/97	CEJCV12D
	96	(50 - 150)	2.2	(0-20)	SW846 6010A	12/19-12/22/97	CEJCV12E
		Dilution Factor: 1					
Chromium	103	(50 - 150)			SW846 6010A	12/19-12/22/97	CEJCV12G
	100	(50 - 150)	3.1	(0-20)	SW846 6010A	12/19-12/22/97	CEJCV12H
		Dilution Factor: 1					
Lead	97	(50 - 150)			SW846 6010A	12/19-12/22/97	CEJCV12J
	95	(50 - 150)	2.4	(0-20)	SW846 6010A	12/19-12/22/97	CEJCV12K
		Dilution Factor: 1					
Selenium	91	(50 - 150)			SW846 6010A	12/19-12/22/97	CEJCV12L
	89	(50 - 150)	2.7	(0-20)	SW846 6010A	12/19-12/22/97	CEJCV12M
		Dilution Factor: 1					
Copper	104	(50 - 150)			SW846 6010A	12/19-12/22/97	CEJCV12N
	101	(50 - 150)	2.8	(0-20)	SW846 6010A	12/19-12/22/97	CEJCV12P
		Dilution Factor: 1					
Nickel	101	(50 - 150)			SW846 6010A	12/19-12/22/97	CEJCV12Q
	98	(50 - 150)	3.1	(0-20)	SW846 6010A	12/19-12/22/97	CEJCV12R
		Dilution Factor: 1					
Mercury	65	(50 - 150)			SW846 7470A	12/19-12/22/97	CEJCV131
	93 *	(50 - 150)	35	(0-20)	SW846 7470A	12/19-12/22/97	CEJCV132
		Dilution Factor: 1					
Zinc	103	(50 - 150)			SW846 6010A	12/19-12/22/97	CEJCV12X
	100	(50 - 150)	2.9	(0-20)	SW846 6010A	12/19-12/22/97	CEJCV130
		Dilution Factor: 1					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP Metals

Client Lot #...: A7L150124 **Matrix.....:** SOLID
Date Sampled...: 12/12/97 17:00 **Date Received..:** 12/13/97

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

* Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A7L150124 **Matrix.....:** SOLID
Date Sampled...: 12/13/97 10:50 **Date Received..:** 12/16/97

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium		WO#: CEKK512Q-MS/CEKK512R-MSD				MS Lot-Sample #: A7L170124-004	
	113	(75 - 125)			SW846 7196A	12/31/97	7365134
	105	(75 - 125)	7.3	(0-20)	SW846 7196A	12/31/97	7365134

Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A7L150124 **Work Order #...:** CEJCJ-SMP CEJCJ-DUP **Matrix.....:** SOLID

Date Sampled...: 12/11/97 13:20 **Date Received..:** 12/13/97

% Moisture.....: 4.2

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
DI Leachable pH						SD Lot-Sample #:	A7L150124-003	
	9.2	9.2	No Units	0.0	(0-20)	MCAWW 150.1	12/19/97	7352122

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A7L150124 **Work Order #...:** CEJCJ-SMP CEJCJ-DUP **Matrix.....:** SOLID

Date Sampled...: 12/11/97 13:20 **Date Received..:** 12/13/97

% Moisture.....: 4.2

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Halogens						SD Lot-Sample #:	A7L150124-003	
	3.2	2.4	%	29	(0-20)	ASTM D 2361-91	12/19-12/23/97	7353131

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A7L150124 **Work Order #...:** CEJCN-SMP CEJCN-DUP **Matrix.....:** SOLID

Date Sampled...: 12/11/97 09:40 **Date Received..:** 12/13/97

% Moisture.....: 4.5

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Reactive Cyanide						SD Lot-Sample #:	A7L150124-004	
	ND	ND	mg/kg	0	(0-20)	SW846 7.3.3	12/17/97	7351210
		Dilution Factor: 1						
Reactive Sulfide						SD Lot-Sample #:	A7L150124-004	
	ND	ND	mg/kg	0	(0-20)	SW846 7.3.4	12/17/97	7351208
		Dilution Factor: 1						

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A7L150124 **Work Order #...:** CEJ3P-SMP CEJ3P-DUP **Matrix.....:** SOLID

Date Sampled...: 12/12/97 12:15 **Date Received..:** 12/13/97

% Moisture.....: 17

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #:	A7L130141-001	
	83.1	85.1	%	2.4	(0-20)	MCAWW 160.3 MOD	12/16-12/17/97	7350115

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A7L150124 **Work Order #...:** CEKK5-SMP CEKK5-DUP **Matrix.....:** SOLID

Date Sampled...: 12/13/97 10:50 **Date Received..:** 12/16/97

% Moisture.....: 4.7

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Specific Gravity						SD Lot-Sample #:	A7L170124-004	
	1.5	1.5	No Units	2.5	(0-20)	SM18 2710 F	12/30/97	7364206

Dilution Factor: 1

CHRYSLER CORPORATION

Chain-of-Custody

00090 A

CompuChem
501 Madison Avenue
Cary, NC 27513
Phone Number: 1-800-833-5097
Fax Number: (919) 379-4050

Project Name: DAYTON THERMAL
Site Location: DAYTON, OH
Site Code: SC001
RFA Number: Y6QP9700234-T
Chrysler PM: GARY STANCZUK

Consultant: Leggette, Brashears & Graham, Inc.
Address: 1210 W. County Rd E, Suite 700
St. Paul, MN 55112
Consultant PM: Ken Vogel
Phone: (612) 490-1405 Fax: -1006

Turn-around Time Request:
24 calendar hrs.
48 calendar hrs.
(10 days)
28 days

Data Package Deliverables: (circle)
(Chrysler Level 1)
Chrysler Level 2
Other (specify):

Matrix Codes
(S) Soil
SW - Surface Water
GW - Groundwater
A - Air
Sed. - Sediment
(O) Other (specify) DI H2O

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	VOC 8260 PPL GC/MS 40ml VOA, HCl	1311 TCLP prep 16 oz wm jar, none	6/7000 TCLP MHS. var 16 oz wm jar	150 pH/Sol 16 oz wm jars, none	4095 LCD (free liquids) 16 oz wm jars, none	320 Cl 16 oz wm jars, none	ch. 7, Ign 16 oz wm jar, none	160 Rea (Reactive Sulfide & Cyanide) 16 oz wm jars none	8080 PPL, PCB-GC 16 oz wm jar	Volatiles pH <2	Metals pH <2	Cyanide pH > 12	Other ____	Remarks
FB121297	12/12/97	1500	G	O	3	✓													Begin SD6234 A
Trip Blank 121297	—	—	G	O	1	✓													
TB1 (7-9')	12/11/97	1320	G	S	3	✓	✓	✓	✓	✓	✓	✓	✓	✓					Analyses con't next chain
TB3 (13-15')	12/11/97	0940	G	S	3	✓	✓	✓	✓	✓	✓	✓	✓	✓					
TB4 (3-5')	12/12/97	1400	G	S	3	✓	✓	✓	✓	✓	✓	✓	✓	✓					
TB4 (14-16')		1530	G	S	3	✓	✓	✓	✓	✓	✓	✓	✓	✓					
TB6 (3-5')		1700	G	S	3	✓	✓	✓	✓	✓	✓	✓	✓	✓					See COC 2 of 2
TB6 (3-5') MS/MSD		1700	G	S	2	✓													MS/MSD

Sampler(s): Kai S. Hansen

Bottles Relinquished under Airbill No. ~~Fed~~ AirBorne 658634 751

Samples Relinquished under Airbill No. FedEx 873873874

Temperature (corrected) ____ C

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact?
Kai S. Hansen	12/12/97	7:45				Yes No
						Yes No
			Received for Laboratory by: Kathryn Graves	971213	1015A	Yes No

Cooler ID # ____

Is RFA sampling complete? Yes (No)

Chrysler Corporation 800 Chrysler Drive, CIMS 482-00-51, Auburn Hills, Michigan 48326-2757

Distribution: White copy: Data package Yellow: Retained by laboratory Pink: Retained by sampler

Revision No 1
Created: September 23, 1997

CHRYSLER CORPORATION

Chain-of-Custody

00091 A

CompuChem 501 Madison Avenue Cary, NC 27513 Phone Number: 1-800-833-5097 Fax Number: (919) 379-4050	Project Name: DAYTON THERMAL Site Location: DAYTON, OH Site Code: SC001 RFA Number: YGQP 9700234-T Chrysler PM: Gary Stanczak	Consultant: Leggette, Brashears & Graham, Inc Address: 1210 W. County Rd E, Suite 700 St Paul, MN 55112 Consultant PM: Ken Vogel Phone: (612) 490-1405 Fax: -1006

Turn-around Time Request:
24 calendar hrs.
48 calendar hrs.
10 days
28 days

Data Package Deliverables: (circle)
Chrysler Level 1
Chrysler Level 2
Other (specify):

Matrix Codes
S - Soil
SW - Surface Water
GW - Groundwater
A - Air
Sed. - Sediment
O - Other (specify)

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	8270 A, TCLP, SVOC GC/MS, 16 oz wm jar, ice	420, Phen Sol 16 oz wm jar, WWE	Hold LD Hold VOC							Volatiles pH <2	Metals pH < 2	Cyanide pH > 12	Other ____	Remarks
TB1 (7-9')	12/11/97	1320	G	S	3	✓	✓	✓											cont SO6234A
TB3 (13-15')	12/11/97	0940	G	S	3	✓	✓	✓											
TB4 (3-5')	12/12/97	1400	G	S	3	✓	✓	✓											
TB4 (14-16')	↓	1530	G	S	3	✓	✓	✓											
TB6 (3-5')	↓	1700	G	S	3	✓	✓	✓											END SO6234A

Lab Use Only

Sampler(s)	Bottles Relinquished under Airbill No. AirBorne 6586319751			Samples Relinquished under Airbill No. Fed Ex 873787387 4			Temperature (corrected) ___ C
Kai S. Hansen	Relinquished by: Kai Hansen	Date: 12/12/97	Time: 7:45	Received by:	Date:	Time:	Custody Seal Intact? Yes No
Cooler ID # ____	Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact? Yes No
Is RFA sampling complete? Yes No	Relinquished by:	Date:	Time:	Received for Laboratory by: Yolanda Graves	Date: 971213	Time: 1015A	Custody Seal Intact? Yes No

Chrysler Corporation 800 Chrysler Drive, CIMS 482-00-51, Auburn Hills, Michigan 48326-2757

Distribution: White copy: Data package Yellow: Retained by laboratory Pink: Retained by sampler

NOTE: Please refer to RFA sent to CompuChem Labs and special instructions before proceeding w/ analyses.

Revision No 1
Created: September 23, 1997

DAIMLERCHRYSLER

EPA Region 5 Records Ctr.
350035

DaimlerChrysler Corporation

March 9, 2000

Fax 614-644-3146

Ms. Geraldine Cauley
Ohio EPA
1800 Watermark Drive
Columbus, OH 43215-1099

Dear Ms. Cauley

We have received your letter of February 28, 2000 indicating your intent to close our existing VAP technical assistance account for the DaimlerChrysler Dayton Thermal Plant. We are requesting that you keep the account open and schedule a meeting with our VAP representative. In the past we have meet with Dawn Dyer to keep her informed of our investigations. Since her maternity leave we are unaware of who our representative is and need to update the new representative prior to holding a public meeting.

We would like to schedule our meeting with OEPA on March 28, 2000 to discuss our sample results and to seek OEPA support at the upcoming public meeting. This public meeting will inform the residents of the need to install monitoring wells within the community. This meeting is scheduled for the week of April 3, 2000.

We appreciate your continued support. Please contact myself at 248-576-7354 or Gary Stanczuk at 248-576-7365 with questions regarding our Dayton Plant.

Sincerely,

Michael Curry

C: Jenifer Kwasniewski

DaimlerChrysler Corporation
800 Chrysler Drive CIMS 482-00-51
Auburn Hills MI USA 48326-2757

84-533-3824 (5/90)

Payable To:

"Treasurer, State of Ohio", for deposit in Voluntary Action Program Fund.

Ref. No. 288552

CHRYSLER COMPANY NAME

CHECK REQUEST	WIRE TRANSFER	CREDIT MEMO	DEBIT MEMO
X			

Return Check To: Mike Curry

ASAP
DATE REQUIRED

CIMS/ Phone No. 482-00-51
248-576-7354

EXPLANATION CCR600420

MAIL CHECK

AMOUNT 2,012.86

OEPA Technical Assistance for Dayton Thermal

8AK543

ISSUED BY	PHONE NO.	APPROVED BY	PHONE NO.	DATE	CHECK NUMBER
Michael Curry	776-7354	[illegible]	276-7362		

LOC	ACCOUNT	DEPT/CENTER	EA / PROJECT - WORK ORDER	AMOUNT
1100	5760060	00019999		2012.86

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UPS Worldwide Express
Shipping Document

A04 /99

See instructions on back. Call 1-800-PICK-UPS (800-742-5877) for additional information.

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1B04 6/99

1 SHIPMENT FROM

SHIPPER'S UPS ACCOUNT NO.: UPS ACCOUNT NO. 6 4 3 0 5 1 9 6 5 0

REFERENCE NUMBER

NAME: Gary Stanczyk TELEPHONE: 248-576-7365

COMPANY: DAIMLERCHRYSLER AIR

STREET ADDRESS: 800 CHRYSLER DR

CITY AND STATE: AUBURN HILLS MI ZIP CODE: 48326 2757

2 EXTREMELY URGENT DELIVERY TO

NAME: Geraldine Cauley TELEPHONE: 614-644-2287

COMPANY: OEPA

STREET ADDRESS: 1800 Watermark DEPT./FLR. Residential ☐

CITY AND STATE (INCLUDE COUNTRY IF INTERNATIONAL): Columbus OH ZIP CODE: 43215-1099

3 WEIGHT — WEIGHT (ENTER "LTR" IF LETTER): LTR; DIMENSIONAL WEIGHT (If Applicable)

SHIPPER'S COPY

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CHARGES

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[ ] DECLARED VALUE Contents are automatically protected up to $100. For declared value over $100, see instructions. $ AMOUNT $

[ ] C.O.D. If C.O.D., enter amount to be collected and attach completed UPS C.O.D. tag to package. $ AMOUNT $

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TOTAL CHARGES $

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8 RECEIVER'S / THIRD PARTY'S UPS ACCT. NO. OR MAJOR CREDIT CARD NO. EXPIRATION DATE

THIRD PARTY'S COMPANY NAME

STREET ADDRESS

CITY AND STATE ZIP CODE

The shipper authorizes UPS to act as forwarding agent for export control and customs purposes. The shipper certifies that these commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to U.S. law is prohibited.

Unless a greater value is declared on this receipt, the shipper declares that the released value of each package covered by this receipt is $100, which is a reasonable value under the circumstances surrounding the transportation. In addition, the maximum value for damage to any one package is $100,000.

9 SHIPPER'S SIGNATURE X [signature] DATE OF SHIPMENT 3-9-00

01019112009 6/99 M

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1A04 6/99

See instructions on back. Call 1-800-PICK-UPS (800-742-5877) for additional information.

TRACKING NUMBER: J056 2755 01 7

1B04 6/99

1 SHIPMENT FROM

SHIPPER'S UPS ACCOUNT NO.: UPS ACCOUNT NO. 6 4 3 0 5 1 9 6 5 0

REFERENCE NUMBER

NAME: Gary Stanczyk TELEPHONE: 248-576-7365

COMPANY: DAIMLERCHRYSLER AIR

STREET ADDRESS: 800 CHRYSLER DR

CITY AND STATE: AUBURN HILLS MI ZIP CODE: 48326 2757

2 EXTREMELY URGENT DELIVERY TO

NAME: Jenifer Kutsniewski TELEPHONE: 614-644-2279

COMPANY: OEPA

STREET ADDRESS: 1800 Watermark DEPT./FLR. Residential ☐

CITY AND STATE (INCLUDE COUNTRY IF INTERNATIONAL): Columbus OH ZIP CODE: 43216-1049

3 WEIGHT — WEIGHT (ENTER "LTR" IF LETTER): LTR; DIMENSIONAL WEIGHT (If Applicable)

SHIPPE COP

4 TYPE OF SERVICE — [X] NEXT DAY AIR; [ ] EXPRESS (INT'L)

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CHARGE

5 OPTIONAL SERVICES — [ ] SATURDAY PICKUP (See instructions); [ ] SATURDAY DELIVERY (See instructions) $

[ ] DECLARED VALUE Contents are automatically protected up to $100. For declared value over $100, see instructions. $ AMOUNT $

[ ] C.O.D. If C.O.D., enter amount to be collected and attach completed UPS C.O.D. tag to package. $ AMOUNT $

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TOTAL CHARGES $

7 METHOD OF PAYMENT — [X] BILL SHIPPER; BILL RECEIVER [ ] / BILL THIRD PARTY [ ] (NEXT DAY AIR ONLY) / CREDIT CARD [ ] (RECORD ACCOUNT NO. IN SECTION 8); American Express, Diner's Club, MasterCard, Visa; CHECK [ ]

8 RECEIVER'S / THIRD PARTY'S UPS ACCT. NO. OR MAJOR CREDIT CARD NO. EXPIRA DA

THIRD PARTY'S COMPANY NAME

STREET ADDRESS

CITY AND STATE ZIP CODE

The shipper authorizes UPS to act as forwarding agent for export control and customs purposes. The shipper certifies that these commodities, technology or s exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to U.S. law is prohibited.

9 SHIPPER'S SIGNATURE X [signature] 3-9-0 DATE OF SHIP

UPS 2nd Day Air®
Shipping Document

See instructions on back. Call 1-800-PICK-UPS (800-742-5877) for additional information.

TRACKING NUMBER 5856 347 144 9

1 SHIPMENT FROM

SHIPPER'S UPS ACCOUNT NO. — UPS SHIPPER NO. / UPS BILLING NO.: 6430519650 — FOR UPS USE

REFERENCE NUMBER

NAME — TELEPHONE

PLEASE PRESS HARD
MAKING 3 COPIES

COMPANY: CHRYSLER CORPORATION

STREET ADDRESS: 800 CHRYSLER DR

CITY AND STATE: AUBURN HILLS MI — ZIP CODE: 48326

2 DELIVERY TO

NAME: Gerri Cauley — TELEPHONE: 614-644-2279

138 COMPANY: OEPA - VAP

140 STREET ADDRESS: 1800 Watermark — DEPT./FLOOR

139 CITY AND STATE: Columbus OHIO — ZIP CODE: 43216

3 WEIGHT AND ZONE

WEIGHT (ENTER "LTR" IF LETTER)	DIMENSIONAL WEIGHT (If Applicable)	ZONE
LTR		

SHIPPER'S COPY

		CHARGES
4 2ND DAY AIR CHARGE		$
5 OPTIONAL SERVICES	☐ SATURDAY PICKUP (See instructions.)	$
	☐ DECLARED VALUE $ _____ AMOUNT (Contents are automatically protected up to $100. For declared value over $100, see instructions.)	$
	☐ C.O.D. $ _____ AMOUNT (If C.O.D., enter amount to be collected and attach completed UPS C.O.D. tag to package.)	$
6 ADDITIONAL HANDLING CHARGE	☐ An Additional Handling Charge applies for certain items. See instructions.	$
TOTAL CHARGES		$

7 METHOD OF PAYMENT

BILL SHIPPER	BILL RECEIVER	BILL THIRD PARTY	AMERICAN EXPRESS	MASTER CARD	VISA	CHECK	UPS USE (CASH)
X							

RECORD ACCOUNT NO IN SECTION 8

8 RECEIVER'S / THIRD PARTY'S UPS ACCT. NO. OR MAJOR CREDIT CARD NO. — EXPIRATION DATE

THIRD PARTY'S COMPANY NAME

STREET ADDRESS

CITY AND STATE — ZIP CODE

9 SHIPPER'S SIGNATURE: X [signature] — DATE OF SHIPMENT: 12/15/98

Unless a greater value is declared in writing on this receipt, the shipper hereby declares and agrees that the released value of each package covered by this receipt is $100, which is a reasonable value under the circumstances surrounding the shipment. If a greater value or declared value per package is $50,000 and the maximum carrier liability for loss or damage is $50,000. Claims must be made within 9 months of the scheduled delivery date or they will be waived. The carrier shall not be liable for any special, incidental, or consequential damages. The entry of a C.O.D. amount is not a declaration of value. Customer's check accepted at shipper's risk unless otherwise noted on C.O.D. tag.

020191125 9/95 W

OhioEPA
State of Ohio Environmental Protection Agency

STREET ADDRESS:
1800 WaterMark Drive
Columbus, OH 43215-1099

TELE: (614) 644-3020 FAX: (614) 644-2329

MAILING ADDRESS:
P.O. Box 1049
Columbus, OH 43216-1049

Certified Mail

February 28, 2000

Mr. Michael Curry
Daimler Chrysler Corporation
800 Chrysler Drive, CIMS 482-00-51
Auburn Hills, MI 48326-2757

Dear Mr. Curry:

On December 18, 1998 we received a request from you to open a Voluntary Action Program (VAP) technical assistance account regarding the Chrysler Dayton Thermal Products Plant, in Dayton. Although, when we have contacted you in the past, you requested that this account remain open, it has been several months since we have received any technical assistance request for the Chrysler Dayton Thermal Products project. In order to keep our billing system up to date, we will be closing out this account on March 13, 2000.

Please keep in mind that closing your existing VAP technical assistance account for this project in no way hinders your ability to seek future technical assistance from the VAP. You need only submit a technical assistance request letter to open a new account and be assigned a VAP reviewer.

If you have any questions regarding this letter or VAP technical assistance in general, please feel free to contact Amy Yersavich, of the VAP, at (614) 644-2285.

Sincerely,

Geraldine Cauley

Geraldine Cauley
Administrative Supervisor
Division of Emergency and Remedial Response

cc: Jenifer Kwasniewski, Manager, VAP
Amy Yersavich, Supervisor, VAP
Mike Starkey, SWDO

DAIMLERCHRYSLER

DaimlerChrysler Corporation

To: OEPA

Terri McCloskey
Supervisor, Cost Recovery Unit
Ohio EPA
Division of Fiscal Administration, General Account
P.O. Box 1049, 1800 Watermark Drive
Columbus, Ohio 43216-1049

Re: Payment for Partial Invoice
Technical Assistance - 98TA109

Enclosed, please find payment for Invoice #98TA109.

Sincerely,

Michael J. Curry
Remediation Program Manager

DaimlerChrysler Corporation
800 Chrysler Drive CIMS 482-00-51
Auburn Hills MI USA 48326-2757

OhioEPA
State of Ohio Environmental Protection Agency

STREET ADDRESS:
1800 WaterMark Drive
Columbus, OH 43215-1099

TELE: (614) 644-3020 FAX: (614) 644-2329

MAILING ADDRESS:
P.O. Box 1049
Columbus, OH 43216-1049

June 17, 1999

Daimler Chrysler Corporation
Attn: Mr. Michael Curry
Remediation Program Manager
800 Chrysler Drive, CIMS 482-00-51
Auburn Hills, MI 48326-2757

Re: Partial Invoice
Technical Assistance - 98TA109

Dear Mr. Curry:

In response to a request from you, staff members of the Voluntary Action Program of the Ohio EPA provided technical assistance to review the groundwater remediation planned at the Chrysler Dayton Thermal Products Plant. The attached partial invoice reflects time spent and amount charged for this partial technical assistance to your company.

Please remit a certified check or money order payable to "Treasurer, State of Ohio", for deposit in the Voluntary Action Program Fund (4R9) in the amount shown on the invoice. The check should be sent within 30 days of receipt of this letter to:

Ohio EPA
Division of Fiscal Administration, General Account
P.O. Box 1049, 1800 Watermark Drive
Columbus, Ohio 43216-1049

If you have any questions regarding this invoice, please contact me at (614) 644-2275.

Sincerely,

Terri McCloskey

Terri McCloskey
Supervisor, Cost Recovery Unit

cc: Gerri Cauley, Voluntary Action Program
File

OhioEPA **Ohio Environmental Protection Agency**

INVOICE

Invoice No.	Account No.	Invoice Date	Date Payment Due
98TA109	4R9	06/17/99	07/17/99

In Account With:
Daimler Chrysler Corporation
Mr. Michael Curry, Remediation Program Mgr.
800 Chrysler Drive, CIMS 482-00-51
Auburn Hills, MI 48326-2757

Make Check/Money Order payable to:
Treasurer, State of Ohio
And mail to:
Office of Fiscal Administration
P.O. Box 1049, 122 South Front Street
Columbus, Ohio 43216-1049

Re:

Description		Amount
1 regular hours on 1-28-99 for Dawn Dyer Met w/Chrysler in SWDO. The volunteer provided general info. Regarding the property Salary Cost: 1 hr. at $21.45 - Cost: $21.45 Agency Fringe (24.94%) Cost: $5.35 VAP *Indirect ($41.17) Cost:* $41.17	*Total:*	*$67.97*
2 regular hours on 1-28-99 for Michael Ekberg Technical assistance meeting to discuss future drilling activities Salary Cost: 2 hrs. at $21.03 - Cost: $42.06 Agency Fringe (24.94%) Cost: $10.49 VAP Indirect ($41.17) Cost: $82.34	Total:	$134.89
	TOTAL DUE THIS INVOICE:	**$202.86**

Please enclose a copy of the last page of this invoice with payment to ensure proper credit to your account

Prepared by:
Division of Emergency &
Remedial Response, VAP
Central Office

I hereby authorize issuance of this invoice:

By Sarah McCloskey
Title: Supervisor, Cost Recovery Unit

OhioEPA
State of Ohio Environmental Protection Agency

Southwest District Office

401 East Fifth Street
Dayton, OH 45402-2911

TELE: (937) 285-6357 FAX: (937) 285-6249

George V. Voinovich, Governor
Nancy P. Hollister, Lt. Governor
Donald R. Schregardus, Director

January 19, 1999

RE: CHRYSLER DAYTON THERMAL PRODUCTS PLANT
1600 Webster Street
Dayton, Ohio
Request for Technical Assistance

Michael J. Curry
Remediation Program Manager
Daimler Chrysler Corp.
800 Chrysler Drive CIMS 482-00-51
Auburn Hills, MI 48326-2757

Dear Mr. Curry:

Ohio EPA has received your letter dated December 18, 1998 requesting technical assistance for the voluntary action being conducted at the Chrysler Dayton Thermal Products Plant property. Ohio EPA subsequently followed-up with a phone call to you on January 6, 1999. Based on our discussion and the information you have provided, you are requesting Ohio EPA technical assistance for the following:

- Review of the ground water remediation planned at the property;
- Assistance with community relations;
- Review of various information regarding VAP activities as it becomes available.

Additionally, a meeting has been scheduled for January 28, 1999 at Ohio EPA's Southwest District Office to acquaint the Agencies staff with information you have regarding the Chrysler property. Ohio EPA understands, from our January 6, 1999 conversation, that the Agency will not be providing a written estimate for the cost of technical assistance at this time. As the scope of the technical assistance becomes more clear, Ohio EPA will provide an estimate upon your further request.

If you have any questions, please call Dawn M. Dyer at (937) 285-6040.

Sincerely,

Dawn M. Dyer

Dawn M. Dyer
Site Coordinator
Division of Emergency and Remedial Response

cc: Amy Yersavich, VAP, DERR-CO
Mark Sheahan, VAP, DERR-CO
John Paquelet , VAP, DERR-CO
Gerri Cauley, DERR, VAP-CO

DAIMLERCHRYSLER

DaimlerChrysler Corporation

December 18, 1998

Gerri Cauley
Ohio Environmental Protection Agency
Voluntary Action Program
P.O. Box 1049
Columbus, Ohio 43216-1049

RE: Request for Technical Assistance for Chrysler Dayton Thermal Products Plant; 1600 Webster Street; Dayton, Ohio

Dear Gerri:

The purpose of this letter is to inform you of Chrysler Corporation's request for Voluntary Action Program (VAP) technical assistance to review the groundwater remediation planned at the Chrysler Dayton Thermal Products Plant.

The specific assistance we are requesting is review and feedback on reports, assistance in community relations, approval of the proposed remedial action prior to implementation and a covenant not to sue at the conclusion of the remediation. This project does not involve the transfer of property to a new owner for redevelopment.

We are aware that we will be charged an hourly rate, plus fringe and overhead for the technical assistance. Please have the technical staff member assigned to this project contact me and follow-up with a written estimate on the cost of this assistance.

The invoice for technical assistance for your project should be sent to myself at the address listed below. Should you have any questions regarding this site please contact me at 248-576-7354 or Gary Stanczuk at 248-576-7365.

Thank you for your attention to this matter.

Very truly yours,

Michael J. Curry
Remediation Program Manager

DaimlerChrysler Corporation
800 Chrysler Drive CIMS 482-00-51
Auburn Hills MI USA 48326-2757

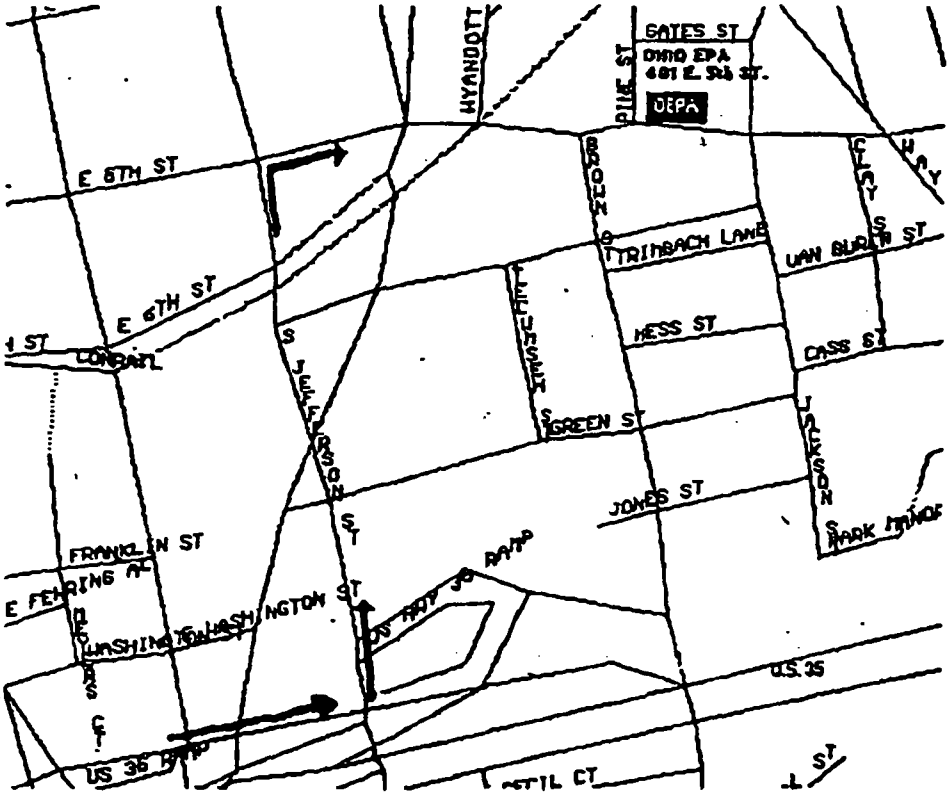
DIRECTIONS TO NEW OHIO EPA OFFICES FROM COLUMBUS

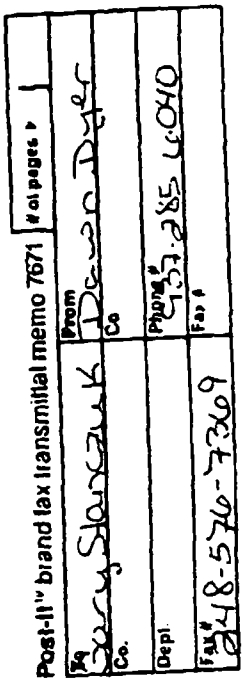
Rt. 70 West to Rt. 675 South.

Follow 675 to U.S. 35 West.

Off of Rt. 35, take the Main St./Jefferson St. Exit

Follow Jefferson Street to Fifth Street and turn right. We are three blocks down on the left.




Post-it™ brand fax transmittal memo 7671 | # of pages ▸ 1
To Doug Shoncavik | From Dave Dyer
Co. | Co.
Dept. | Phone # 937-285-6040
Fax # 614-836-7360 | Fax #

DIRECTIONSFROM CINCINNATI

TAKE 75 NORTH TO RT. 35 EAST.

GET INTO THE LEFT LANE AND TAKE THE MAIN/JEFFERSON STREETS EXIT.

BEAR TO THE RIGHT AND FOLLOW JEFFERSON STREET.

GET IN THE RIGHT LANE AND TURN RIGHT ONTO FIFTH STREET.

WE ARE THREE BLOCKS DOWN ON THE LEFT. PARKING IS ACROSS PINE STREET, FACING OUR BUILDING. SPACES ARE MARKED VISITORS.

EPA Region 5 Records Ctr.
350036

R.F.Q. #5407-0727-MN
DATE: 08-13-98

CHRYSLER CORPORATION
DAYTON THERMAL PRODUCTS DIVISION
PLANT ENGINEERING - JOB SPECIFICATION (Revised)

NO. PYP -

JOB NAME: Installation Silicate System with Drain Deck Piped to New Wastewater Sump
JOB LOCATION: Dayton Plant/Bldg. No. 40 B
DRAWING OR SKETCH NUMBER: Chrysler/Dayton Plant Layout Wastewater Sump Drawings
ATTACHMENTS (for informational purposes only): Bowser-Morner Report No. 112845-0198-032; Leggette, Brashears & Graham, Inc. figures 1, 2, and 3, table 1, and boring logs

INCLUDED CHRYSLER CORPORATION - GENERAL CONDITIONS (AS APPLICABLE)

1.0 INVITATION TO BID

Your firm is hereby requested to submit a proposal for performing the complete work as described in the Contract Documents consisting of these specifications and included drawings and sketches.

Information regarding existing conditions at the job site are believed to be reasonably correct, but the Owner cannot guarantee its completeness or accuracy. The Contractor will be held to have examined the Contract Documents, the premises and the job site and to have satisfied himself as to the scope of work and field conditions before the delivery of his proposal.

2.0 INSTRUCTIONS TO BIDDERS

BIDDERS' MEETING: August 10, 1998, 11:00 A.M. Eastern Time

Chrysler/Dayton Thermal Products Division
Plant Engineering Office
1600 Webster Street
Dayton, Ohio 45404

BIDS DUE: August 25, 1998, 4:00 p.m. Eastern Time

BID REVIEW MEETING: August 27, 1998 11:30 A.M. Eastern Time
Chrysler/Dayton Thermal Products Division
Plant Engineering Office
1600 Webster Street
Dayton, Ohio 45404

CONTRACT AWARD: Per Chrysler Purchasing

FIELD INSTALLATION: September 14, 1998

JOB COMPLETION: October 1, 1998 **(FIRM)**

Inquiries regarding these bid specifications and request for plant visits are to be directed to:

Mr. Marvin L. Neargarder, Plant Engineer
Chrysler/Dayton Thermal Products Division
Manufacturing Engineering Department
1600 Webster Street
P.O. Box #1205
Dayton, Ohio 45404

TELEPHONE: (937) 224-2485
FAX: (937) 224-2915

Send two priced copies of the request for quote to the attention of:

Mr. Keith A. Coney, CIMS 484-00-04
Chrysler Corporation Purchasing
Chrysler Technology Center
800 Chrysler Drive
Auburn Hills, Michigan 48326-2757

TELEPHONE: (248) 512-1654
FAX: (248) 512-1521

Send one unpriced copy of the request for quote to the attention of the three following individuals:

Mr. Marvin L. Neargarder, Plant Engineer
Chrysler/Dayton Thermal Products Division
Manufacturing Engineering Department
1600 Webster Street
P.O. Box #1205
Dayton, OH 45404

TELEPHONE: (937) 224-2485
FAX: (937) 224-2915

****

Mr. Gary M. Stanczuk, CIMS 482-00-51
Chrysler Corporation
Chrysler Technology Center
800 Chrysler Drive
Auburn Hills, Michigan 48326-2757

TELEPHONE: (248) 576-7365
FAX: (248) 576-7369

****

Mr. Kenneth D. Vogel, Associate
Leggette, Brashears & Graham, Inc.
1210 West County Road E, Suite 700
St. Paul, MN 55112

TELEPHONE: (651) 490-1405
FAX: (651) 490-1006
EMAIL: kvogel@lbgmn.com

The following local contractors are familiar with the plant facilities and operations. These firms are noted for informational purposes only. Inclusion or exclusion of these firms in your bid will not have a bearing on award of the work.

Fryman-Kuck	(concrete, iron work, etc.)	(937) 274-2892
Shook, Inc.	(concrete, iron work, etc.)	(937) 276-6666
S&D Mechanical	(plumbing)	(937) 277-8080
Pipe Systems, Inc.	(plumbing)	(937) 236-2262
Freedom Electric	(electrical)	(937) 228-0660
Studebaker Electric	(electrical)	(937) 890-9510
Browning-Ferris Industries	(waste disposal)	(513) 771-4200
Waste Management, Inc.	(waste disposal)	(937) 592-8080

3.0 SCOPE OF WORK

THE SUCCESSFUL BIDDER WILL FURNISH ALL SERVICES, UNION LABOR, MATERIAL, EQUIPMENT, TOOLS AND SUPERVISION TO DO ALL OF THE FOLLOWING:

JOB NAME: INSTALLATION SILICATE SYSTEM WITH DRAIN DECK PIPED TO NEW WASTEWATER SUMP
PLANT ENGINEERING SPECIFICATION NO. 0727

3.1) Process Development

1. Abandonment of two (2) existing wastewater and/or waste oil sumps located within the construction area for the silicate system with oversite provided by Owner and/or the Owner's representative, Leggette, Brashears & Graham, Inc. Chrysler Pollution Prevention and Remediation and/or Leggette, Brashears & Graham, Inc. will be responsible for all sampling and analysis. The scope of work includes, but is not limited to, the following: remove protective guard posts, pull pump and salvage to owner, demo electrical controls and conduit back to main power bus, demo concrete slab pump is mounted to, cap pump discharge line at wastewater system main, arrange for sump clean out with owner (owner to provide labor and disposal for sump clean out), and backfill, compact and provide concrete finish to abandon sumps according to the following specifications. Properly dispose of all demolition materials. Waste disposal to be at a Chrysler-approved facility.

2. Installation of silicate system with associated drain deck and sub-slab drain piping, including connection to a new wastewater sump with oversite provided by Owner and/or the Owner's representative, Leggette, Brashears & Graham, Inc. Waste disposal to be at a Chrysler-approved facility.

3. Installation of a new wastewater sump per attached drawings, including an attached access ladder.

4. Contractor shall provide scaled, as built construction documentation drawings.

3.2) General Requirements

The following specifications are the minimum acceptable requirements for the installation of the silicate system with drain deck piped to a new wastewater sump in Bldg. No. 40B. These specifications are the minimum acceptable requirements and are in no way intended to relieve the vendor of the responsibility to provide a complete silicate system with drain deck piping to a new wastewater sump.

The contractor shall conduct all operations in strict accordance with health and safety requirements imposed by OSHA, other pertinent governmental agencies, and the Owner. It is solely the Contractor's responsibility to follow all applicable health and safety codes and regulations governing this work.

The Contractor shall remove all debris from the Owner's property and dispose of according to Local, State, Federal, and Plant regulations. **All concrete, soil, and other debris requires Owner's Representative approval before removing from plant property, Chrysler Pollution Prevention and Remediation or Leggette, Brashears & Graham, Inc. will be responsible for sampling and analysis.**

The silicate system is designed to be self-supporting and stable after it is fully complete. It is solely the Contractor's responsibility to determine erection procedures and sequence; and to insure the stability of the building and its component parts, and the adequacy of temporary or incomplete connections, during erection. This includes the addition of whatever temporary bracing, guys, or tie-downs that might be necessary. Such material is not shown on drawings. If applied, they shall be removed as conditions permit, and remain the Contractor's property.

All deviations from the engineering drawings shall be submitted in written form to the Owner or his Representative for approval before any changes can be made.

Shop drawings regarding rebar placement shall be submitted to and approved by the Owner or his Representative before shop work is permitted to commence. All deviations from the engineering drawings shall be circled and noted on the shop drawings.

Dimensions pertaining to existing conditions must be field verified by the Contractor prior to any fabrication, construction or erection.

Footings shall bear on undisturbed soil or engineered fill.

Contractor will conduct compaction tests using a nuclear density tool to assure compaction density equivalent to 95 percent standard proctor.

3.3) Design Data

Design Specifications: Ohio Basic Building Code/Current Edition With Subsequent Revisions

Allowable Soil Bearing: 3,000 PSF

Earthquake: Zone 1

3.4) Plant Utilities

1.	Electrical Power	460 Volts/3-Phase/60 Hz.
2.	Compressed Air	60 PSI
3.	Water (City)	50 PSI at 55° Fahrenheit
4.	Natural Gas	5-7 PSIG, 1020 BTU per Cubic Foot
5.	Steam	150 PSI (reduced to 35 PSI by Vendor)

3.5) Installation Site, Building Limitations

The installation site has a clear height of 17 feet from the floor to the bottom of the trusses. The bottom of roof deck to the floor is 23 feet. Vendor will be responsible for field measuring area to ensure clearance required for installation. Vendor will also be required to review the plant to determine best entry into the building and design equipment accordingly.

3.6) Insurance and Codes

All work furnished shall be in compliance with all Local, State and Federal Codes and Regulations.

All work shall comply in every respect with current Federal Occupational Safety and Health Act (OSHA). Compliance with Chrysler Corporation Underwriters (I.R.I.) is required.

All work and/or materials used or provided for the installation of the silicate system foundation and wastewater sump shall comply with all of the following:

A. Industrial Risk Insurers Requirements
B. OSHA Health and Safety Act
C. Montgomery County Regulations
D. City of Dayton Fire Safety Requirements
E. City of Dayton Water Department Requirements
F. Chrysler Corporate Plant Construction Codes and Standards
G. Chrysler/Dayton Controls Specifications
H. JIC Electrical Standards (EMP-1-1967)
I. Insurance Underwriters Standards
J. Walsh-Healy Act
K. Chrysler's Specification for noise Control of Equipment dated 1982.
L. Environmental Protection Agency Rules and Regulations (EPA)
M. Chrysler's Electrical Standards
N. Chrysler's Pneumatic Standards (P-1-1975)
O. Chrysler's Hydraulic Standards (H-101973)
P. Chrysler's Lubrication Standards
Q. Chrysler's Motor Standards (NPEY-100)
R. Chrysler's Color Standards (CS 25, 7-76)
S. Chrysler's Safety Standards

The Prime Contractor will be held totally responsible for the construction techniques, materials used, permit, warranties and adherence to all the nineteen (19) additional regulatory agencies or standards set forth within this set of specifications.

All other questions relating to the quote documents, its language, deadlines and/or other general information should be directed to Mr. Keith A. Coney, who has issued you the request for quote form. This "R.F.Q." document will contain contact information to assist your organization in submitting a clean, detailed, accurate and competitive quote bid.

4.0 GENERAL CONDITIONS, PERFORMANCE, AND MATERIALS

4.1) Laws, Ordinances, and Regulations

The Contractor shall in performance of the contract comply with all applicable Federal, State (Ohio) and Local laws (Dayton, Montgomery County). These shall include adherence to the intent of Chrysler/Dayton Thermal Products Division Plant Protection and Fire Protection regulations. The design concepts of the systems shall comply with the requirements of the Chrysler Fire Insurance Carriers, Factory Mutual and Factory Insurance Association and OSHA.

4.2) Permits

All permits shall be obtained and all inspection fees shall be paid for by the Contractor for all work requiring such.

4.3) Union Labor

Contractor shall provide trade-specific union labor as required by the terms of the local collective bargaining agreement, and/or as required by the Owner.

4.4) Overtime

Determination of necessity of overtime shall be the responsibility of the individual bidders based on proposed completion dates and information related to specific job and plant conditions. Overtime charges are to be listed as a separate item and submitted as part of the quotation.

4.5) Minority Business Enterprise

Bidders are encouraged to include Minority Business Enterprise (MBE) firms for subcontracted services and/or supplies, when possible. Such MBE firms should be certified by an Owner-approved state or national MBE certification entity. Bidder shall identify any such proposed MBE subcontractors in their bid.

4.6) Use of Premises

Work hours shall be limited to no earlier than 6:30 a.m., Monday through Friday. If completion of the work by the specified completion date requires modification of these work hours, Contractor shall indicate any proposed changes in his bid submittal.

The Contractor shall confine their equipment, storage of materials, and the operations of their workmen to limits indicated by law, ordinances, permits and directions of the Owner and shall not unreasonably encumber the premises with their materials. The Contractor shall not load or permit any of a structure to be loaded with a weight that will endanger its safety. The Contractor shall enforce the Owner's instructions regarding signs, advertisements, fires and smoking.

The Contractor and all Sub-Contractors and their employees shall be subject to and at all times conform to the Owner's rules and requirements for the protection of the plant, materials, equipment and Owner's employees. If required by the Owner, the Contractor shall furnish their employees with a special badge or card which will identify them as employees and admit them to such portions on the premises as may be designated by the Owner.

Smoking on the premises will be permitted only in areas where the Owner's regulations do not forbid the same.

4.7) Delivery of Materials

The Contractor shall pay all demurrage that may accrue on all cars of material or equipment furnished by him in connection with the work. The Contractor shall be responsible for the unloading, checking and storing of all material owned or used by him in connection with the work.

The Contractor shall cause all materials which he purchases for use on the work to be consigned directly to the Contractor as consignee, and shall handle all matters pertaining to freight charges for demurrage directly with the carriers involved.

4.8) Removal of Unfit Materials

Upon notification by the Owner, the Contractor shall immediately remove and replace to the satisfaction of the Owner, all material and work of unsound or unfit character.

The expense of removing, reconstructing, replacing or refinishing unsound or unfit materials and work, the cost of making good other work affected thereby, and the cost of delays resulting therefrom, shall be borne by the Contractor and no extension of time will be allowed for such correcting of faulty material or work.

4.9) Moving Materials

If it becomes necessary at any time during the performance of the work to move materials which are to enter into the construction, or equipment which has been temporarily moved which are to enter into the construction, or equipment, when so directed by the Owner, shall move or cause the same to be moved without additional charge.

4.10) Accident Prevention, Health and Safety

Detectable concentrations of various chlorinated compounds including, but not necessarily limited to, tetrachloroethene (PCE), trichloroethene (TCE), 1,2-dichloroethene (DCE), 1,1,1-trichloroethane (TCA), and methylene chloride, have previously been reported from soil and/or soil gas samples collected from Building 40B. Though not previously reported from sample analyses, vinyl chloride is a known degradation product of at least some of these detected compounds. Therefore, the Owner cannot discount or confirm the possible presence of vinyl chloride.

The Contractor shall provide documentation to the Owner, prior to beginning the work, that all on-site Contractor employees, subcontractors, and personnel have been trained in the proper use of protective clothing and other personal protective equipment (PPE) in accordance with 29 CFR Part 1910 ("Hazwoper").

The Contractor is solely responsible for the health and safety of its employees, subcontractors, and personnel. The Contractor shall prepare and submit to Owner, prior to beginning the work, a site-specific health and safety plan prepared in accordance with applicable OSHA requirements.

The Contractor shall provide its employees with approved eye protection, which they will be required to wear at all times in the Owner's plant. Also, Contractors and their employees will wear appropriate protective headgear (hard hats) while performing work in any part of the plant, building or property. Contractor shall supply all other PPE as required to complete the work. The Contractor shall be prepared to upgrade PPE levels, without undue interruption or delay of the work, should conditions warrant.

The Contractor shall provide a designated health and safety officer, thoroughly trained and familiar with health and safety supervision and monitoring, to monitor and supervise working conditions and Contractor's employees, subcontractors, and personnel. The designated officer shall be on duty at all hours that Contractor's employees, subcontractors or personnel are working to patrol the premises and with authority to set required levels of PPE for

conducting the work, to establish and maintain health and safety work zones as necessary, and to take immediate remedial action to assess the potential of, and minimize or eliminate, health and safety issues related to the work.

The Contractor shall provide and properly maintain monitoring equipment and devices, warning signs and lights, barricades, vapor barriers, railings and other safeguards for the protection of Contractor's and Owner's workmen and others on or about or adjacent to the work, as required by the conditions and progress of work and/or as directed by the Owner.

The Contractor shall provide and properly maintain a suitable means of monitoring, mitigating, controlling and/or venting fugitive vapors and exhaust fumes which may contain unpleasant, irritating, toxic and/or hazardous substances, that may result from the work, subject to approval of the Owner. It is intended that such fugitive vapors or fumes, if generated or encountered, be mitigated, controlled, and/or vented so as to protect worker health and safety and comfort. ***In no instance shall such vapors or fumes be detected olafactorily or otherwise, outside the boundaries of the designated work area of Building 40B.***

The Contractor shall comply with the "Safety and Engineering Practices" set forth in the"Manual of Accident Prevention in Construction" published by the Associated General Contractors of America and with all applicable State and Local Safety and Sanitary Laws, Regulations and Ordinances, as well as the established safety rules and practices of the Owner.

The Contractor shall properly protect the Owner's and adjoining property from injury and except as hereinafter provided in the section entitled "Owner's and Contractor's Responsibilities for Fire and Extended Coverage Insurance Hazards," shall at his expense, make good any damage to same without delay.

Any electrical machinery or equipment used in the Owner's plants, must be equipped with suitable electrical receptacles and/or connectors. Temporary exposed wiring connections will not be permitted.

4.11) Explosives

The Contractor shall obtain the permission of the Owner before using dynamite or other explosives on the property of the Owner and shall be governed by the established safety rules and practices of the Owner and City and State Regulation in their use and storage.

4.12) Fire Protection

The Contractors and Sub-Contractors shall take all necessary precautions to guard against and eliminate all possible fire hazards and to prevent damage to any construction work, building materials, equipment, temporary field offices, storage sheds, and all other property, both public and private. The location of the nearest corporation or public fire alarm box and the phone number of the local fire department shall be conspicuously posted by the Contractor throughout the field offices and in the building structure adjacent to this work.

The Contractor's superintendent in charge of the project, together with the Owner shall inspect the entire project at least once each week to make certain that they adhere to the conditions and requirements set forth herein.

Employees shall not be allowed to start fires with gasoline, kerosene, or other highly flammable materials. **No open fires will be permitted.**

No welding, flame cutting, or other operations involving the use of flame, arcs or sparking devices will be allowed without adequate protection and shielding particularly at the point of operation and prior permission of the Plant Engineer. All combustible or flammable material shall be removed from the immediate working area. If removal is impossible, all flammable or combustible materials shall be protected with an asbestos fire blanket or suitable non-combustible shields to prevent sparks, flames, or hot metal from reaching the flammable or combustible materials. The Contractor shall provide the necessary personnel and fire fighting equipment to effectively control

incipient fires resulting from welding, flame cutting or other operations involving the use of flame, arcs or sparking devices.

4.13) Flammable, Toxic and Hazardous Materials or Substances

Gasoline, benzene or like combustible materials, together with all flammable or waste material subject to spontaneous combustion, or other toxic or hazardous materials or substances, including excavated soils and fugitive vapors or exhaust fumes, shall not be improperly handled, stored, discharged to the air or ground, or be poured into sewers, manholes or traps, but shall be treated and/or disposed of, in a manner approved by the Owner and in accordance with applicable local, state, and federal requirements. The Contractor shall obtain permission from the Owner before bringing/removing any of the foregoing materials to/from the site and shall make appropriate arrangements for storing of the same.

The Contractor shall provide all necessary equipment to clean and/or decontaminate excavation or other equipment, including but not limited to, a steam cleaner/pressure washer and decontamination pad. The Contractor shall collect and properly contain any fluids or solids resulting from such cleaning and/or decontamination.

Not more than a one (1) day supply of flammable liquids such as oil, gasoline, paint or solvent shall be brought into any building at any one time. All flammable liquids having a flash point of 110°F or below, which must be brought into any building, shall be confined to the Underwriter's Laboratories labeled safety cans. The bulk supply of all flammable liquids shall be detached at least 75 ft. from the building and from yard storage of building materials. Spigots on drums containing flammable liquid are prohibited on the project site. Drums are to be equipped with approved vented pumps.

No tar melting kettles or tar heating devices of any kind will be permitted inside, on the roof or within 50 ft. of any building. When any of these conditions cannot be complied with, then a special written deviation permit must be issued by the Plant Engineering Activity and approved by the local Plant Protection Department. Deviation requests will only be approved in exceptional circumstances.

All tarpaulins used during the course of construction shall be of a flameproof type secured in place against damage or "flapping" from the winds.

All oil soaked rags, papers and other combustible materials shall be removed from any building at the close of each day's work or more often if necessary, and shall be placed in metal containers with self-closing lids.

4.14) Fire Protection

The Contractor shall be responsible at his expense during the entire construction period for providing and maintaining the following material, equipment and services and for meeting the following conditions and requirements.

4.15) Fire Extinguishers

Provide and maintain in working order at all times, during construction, not less than four (4) fire extinguishers conveniently located for proper protection for each building having 5,000 sq. ft. of total floor area or less. One (1) additional fire extinguisher shall be provided for each additional 5,000 sq. ft. of floor area.

Fire extinguishers shall be either a 2½ gallon capacity water type gas cartridge expelled unit or a 5-gallon capacity pump type protected from freezing by use of calcium chloride, all to meet the approval of the Fire Underwriter's Laboratory, and shall be inspected at regular intervals and recharged if necessary.

In areas of flammable liquid, asphalt or electrical hazards, extinguishers of the 15 lb. carbon dioxide type or 20 lb. dry chemical type shall be provided.

At least one (1) qualified person satisfactory to the Owner and thoroughly familiar with fire protection and prevention, shall be on duty at all hours that Contractor's employees are working to patrol premises with authority to take immediate remedial action to eliminate unnecessary fire hazards.

4.16) Patching and Replacing of Damaged Work

The Contractor shall be held responsible for all damage to the work that is caused by his work, workmen or by his Sub-Contractor. Patching and replacing of damaged work, except as provided under the heading of "Glass Damage," shall be done as directed by the Owner, but the cost of the same shall be paid by the Contractor.

At completion of the work, damage to the buildings, roofs, drivers, walks, underground and overhead work, etc., shall be made good to the satisfaction of the Owner at the Contractor's expense.

The Contractor shall be responsible for any and all lose of materials connected with the construction because of unexplainable disappearance, thefts or misappropriations of any kind or nature.

4.17) Glass Damage

When a Contractor is designated by specifications or otherwise as the General Contractor, he shall be responsible for all breakage of or other damage to glass permanently installed in the buildings up to the time the buildings are turned over to the Owner.

4.18) Cleaning of Premises

The Contractor shall at all times keep the entire premises free of rubbish and debris caused by his work and his employees, or by his Sub-Contractors, and upon completion of the work shall leave all buildings and surroundings included in the contract broom clean. The Contractor shall also remove from the premises all items such as temporary partitions, office and storage sheds, fence material, etc., which are used for temporary purposes during construction.

Should the Contractor fail to do the required cleaning work immediately upon request, the Owner may do the cleaning work and charge the cost of same to the account of the Contractor.

4.19) Building Roof

The Contractor is expected to use maximum care to protect the Owner's roof at all times. All materials stored on the roof shall be set on planks and spread to reduce the weight loading. Movement across the roof shall be on planks. The Contractor shall be responsible for any damage incurred by material movement or equipment installation.

4.20) Demolition and Removal Work

Demolition includes removal, proper storage, and disposal of demolished materials, as directed by Owner.

Submit proposed methods and operations of building demolition to Owner's Representative for review prior to start of work. Include in schedule coordination for shut-off, capping and continuation of service encountered.

Conduct demolition operations and removal of debris to ensure minimum interference with adjacent occupied or used facilities.

Do not close aisles or obstruct Owner's operations or facilities without written permission from the Owner's Representative.

Ensure safe passage of persons around area of demolition. Conduct operations to prevent injury to structures, facilities and persons.

Provide interior dust proof partitions to separate Owner occupied areas and construction areas as determined by the Owner's Representative; partitions shall be 2" x 4" wood stud covered with ½" plywood or 6 mil polyethylene sheet or other system acceptable to the Owner's Representative; tape all joints, provide gasket at sill and header plate; carry partitions to construction above; provide hinged wood doors or overlapping sheet plastic doors.

Promptly repair damage caused to adjacent facilities or construction by demolition operations and at no cost to the Owner.

Maintain existing utilities that are to remain, keep in service, and protect from damage.

Use water sprinkling, temporary enclosure, and suitable means to limit dust and dirt rising and scattering in air to lowest practical level.

Removal of concrete shall begin with a saw-cut full depth of slab.

Clean adjacent structures and improvements of dust, dirt, and debris caused by demolition operations, and acceptable to the Owner's Representative. Return adjacent areas to condition to existing prior to start of work.

Removal work includes, but is not limited to the following:

a) Removal of portion of concrete floor for installation of drain lines.
b) Cut-off existing hold down bolts, etc. and grind flush with existing slab.

4.21) Earthwork

Existing Utilities: Locate by hand excavation and provide protection from damage. Cooperate with Owner for maintaining services. Do not break utility connections without providing temporary services. Repair damages to existing utilities as directed by the Owner's Representative.

Protections: Protect structures, utilities and other facilities in areas of work. Barricade open excavations and provide warning lights. Comply with regulations of authorities having jurisdiction.

Shoring/Piling: Provide bracing, shoring, and/or piling as required in excavation, to maintain sides and to protect adjacent structures from settlement, complying with Local Codes and Regulations. Maintain until excavations are backfilled.

Fill Material: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, or crushed slag free of vegetation or other objectionable materials.

Excavation: Excavation shall proceed with care to avoid damage to both known and unknown underground services. Remove, properly store, and dispose of material, as directed by Owner and at an Owner-approved facility, to obtain required sub-grade elevations, including floor slab, obstructions visible on ground surface, underground structures and utilities indicated. Owner will provide sampling and analysis of excavated materials.

Backfill & Fill: Backfill shall be certified clean and be of granular material free from clay, loam or perishable materials. The approved granular material shall be compacted to a density equivalent to 95 percent standard proctor. Place and compact fill material in maximum 8" layers to required elevations. Backfill excavations as promptly as work permits.

Compaction: Compact each layer of backfill and fill materials and the top 12" of sub-grade for structures and slabs to 95 percent maximum standard proctor density. Contractor will perform compaction testing utilizing a nuclear density tool, testing every two feet of compacted material. Layers failing the compaction specifications shall be recompacted and retested for compaction compliance.

Disposal: Remove and dispose of excavated material, trash, debris, and waste material from site, as directed by the Owner at an Owner-approved facility.

4.22) Concrete

Codes & Standards: Latest edition of ACI #301 "Specifications for Structural Concrete Buildings," ACI #302 "Recommended Practice for Concrete Floor and Slab Construction," American Concrete Institute; "Manual of Concrete Practices," ACI #347 "Recommended Practice for Concrete Form-work," ACI #318 Building Code Requirements for Reinforced Concrete." Contractor shall comply with the applicable provisions except as otherwise indicated and with the following supplemental requirements.

a) All concrete shall be normal weight with aggregates conforming to ASTM C33.
b) Concrete shall develop the following 28-day compressive strength (FC'):
Floor Slab - 4,000 PSI
Foundation - 3,500 PSI
c) Grout for machine foundations and column base plates shall be the following or approved equal placed per manufacturer's specifications.
Column Base Plates - Master Builders Masterflow 928
Machine Foundations - Master Builders Embeco 885
d) Chloride based admixtures are prohibited in all reinforced concrete. Other admixtures shall conform to ASTM C494.
e) Reinforcing steel shall be deformed bars conforming to the Silicate System Foundation Drawings (A615 Grade 60, unless otherwise indicated) with a minimum yield stress (FY) of 60,000 PSI. The minimum lap for splice shall be 3"-0."
f) Concrete cover or reinforcing steel shall be 3" unless otherwise noted.
g) Maximum slump shall be 4" +/-1" as determined in accordance with ASTM C143.
h) Concrete Finish:
Floor Slabs - Hand trowel FF 30/FL 25 Finish
Paving Slabs - Float/Broom

Admixtures: Use air-entraining admixture, unless otherwise indicated. Add air-entraining admixture at manufacturer's prescribed rate to result in concrete at point of placement having air content within following limits:

a) Slab and curb 2 to 4 percent air.
b) Proportion and design mixes to result in concrete slump at point of placement as follows. Slab and curbs not less than 1" and not more than 4."

Normal Weight Concrete Properties: Design mixes to provide normal weight concrete to provide 4000 PSI strength unless otherwise indicated on drawings and schedules, and based on following ACI Standard Sections.

a) ACI #318 - 77, Chapter #4.
b) ACI #211.1 - 77.

4.23) Concrete Materials

Portland Cement ASTM-C #150, type as required.

Aggregates ASTM-C #33 except local aggregates of proven durability may be used when acceptable to Owner's Representative.

Water clean, drinkable.

Air-entraining admixture ASTM-C #260.

Water reducing admixture ASTM-C #494. Only use admixtures which have been tested and accepted in mix designs, unless otherwise acceptable.

4.24) Related Materials

Liquid curing-hardening sealing compound Curecrete Chemical Company "Ashford Formula."

4.25) Reinforcing Material

Deformed reinforcing bars ASTM-A #615, Grade #60 deformed unless otherwise indicated.

Welded wire fabric ASTM #185.

4.26) Forming and Placing Concrete

Job-site mixing use drum batch machine mixer, mixing not less than 1½ minutes for one (1) cubic yard or smaller capacity. Increase mixing time at least 15 seconds for each additional cubic yard or fraction thereof.

4.27) Form-Work

Construct form-work in accordance with Silicate Foundation Drawings to be provided by plant so that concrete members and structures are of correct size, shape, alignment, elevation and position.

4.28) Installation of Embedded Items

Set and build into work anchorage devices and other embedded items required for other work that is attached to, or supported by cast-in-place concrete. Use setting diagrams, templates and instructions provided by others for locating and setting.

4.29) Concrete Placement

Comply with ACI placing concrete in a continuous operation within planned joints or sections. Do not begin placement until work of other trades affecting concrete is complete. Consolidate placed concrete using mechanical vibrating equipment with hand rodding and tamping, so that concrete is worked around reinforcement and other embedded items and into forms.

4.30) Concrete Finishes

Exposed-To-View Surfaces: Provide a smooth finish for exposed concrete surfaces. Remove fins and projections, remove defective areas and repour to match existing.

Slab Trowel Finish: Apply trowel finish to monolithic slab surfaces that are exposed-to-view. Consolidate concrete surfaces by finish troweling free of trowel marks, uniform in texture and appearance.

Curing-Sealing-Hardening Finish: As necessary or required, apply selected sealant or hardener to floor areas, as soon as surface is firm enough to walk on and before hairline checking and temperature checking occurs, and by methods and at rates of application as recommended by the material manufacturer.

4.31) Metal Fabrication

Codes & Standards: Latest edition of AISC "Specifications for the Design, Fabrication and Erection of Structural Steel for Buildings" including "Commentary," AWS "Structural Welding Code," comply with applicable provisions unless otherwise indicated.

Steel Plates, Shapes and Bars: ASTM-A #36.

Unfinished Fasteners: Nuts and bolts, ASTM-A #307 grade.

Shop Paint: FS TT-P-86, Type II, SSPC-Paint #2, or Tnemec Company Inc. "99 Red Metal Primer." Apply to cleaned and degreased steel surfaces at rate to provide a 2.0 mil dry film thickness.

Miscellaneous Framing and Support: Provide as required to complete work. Fabricate of welded construction in as large units as possible. Include required anchors for building into other work; spaced not more than 24" on centers.

Installation: Perform cutting, drilling and fitting required for installation, set work accurately in location, alignment and elevation, measured from established lines and levels. Provide anchorage devices and fasteners where necessary for installation to other work. Touch-up shop paint after installation. Clean field welds, bolted connections and abraded areas, and apply same type paint as used in shop.

4.32) Flashing and Sheet Metal Work

Fabrication: General, comply with "Architectural Sheet Metal Manual" by SMACNA, for each general category of work required.

4.33) Mechanical

Provide floor drains with heavy duty grating as indicated on Silicate Foundation drawings. Floor drains shall be as manufactured by "Aco" or approved equal. Piping shall be 6" I.D. minimum Schedule #80 CPVC.
For engineering assistance/design of Aco drain system all contractors shall contact:

Aco Polymer Products, Inc.
12080 Ravenna Road
P.O. Box 245
Chardon, Ohio 44204

Attention: Jim Schiltz
Telephone: (216) 546-1740

END OF DOCUMENT

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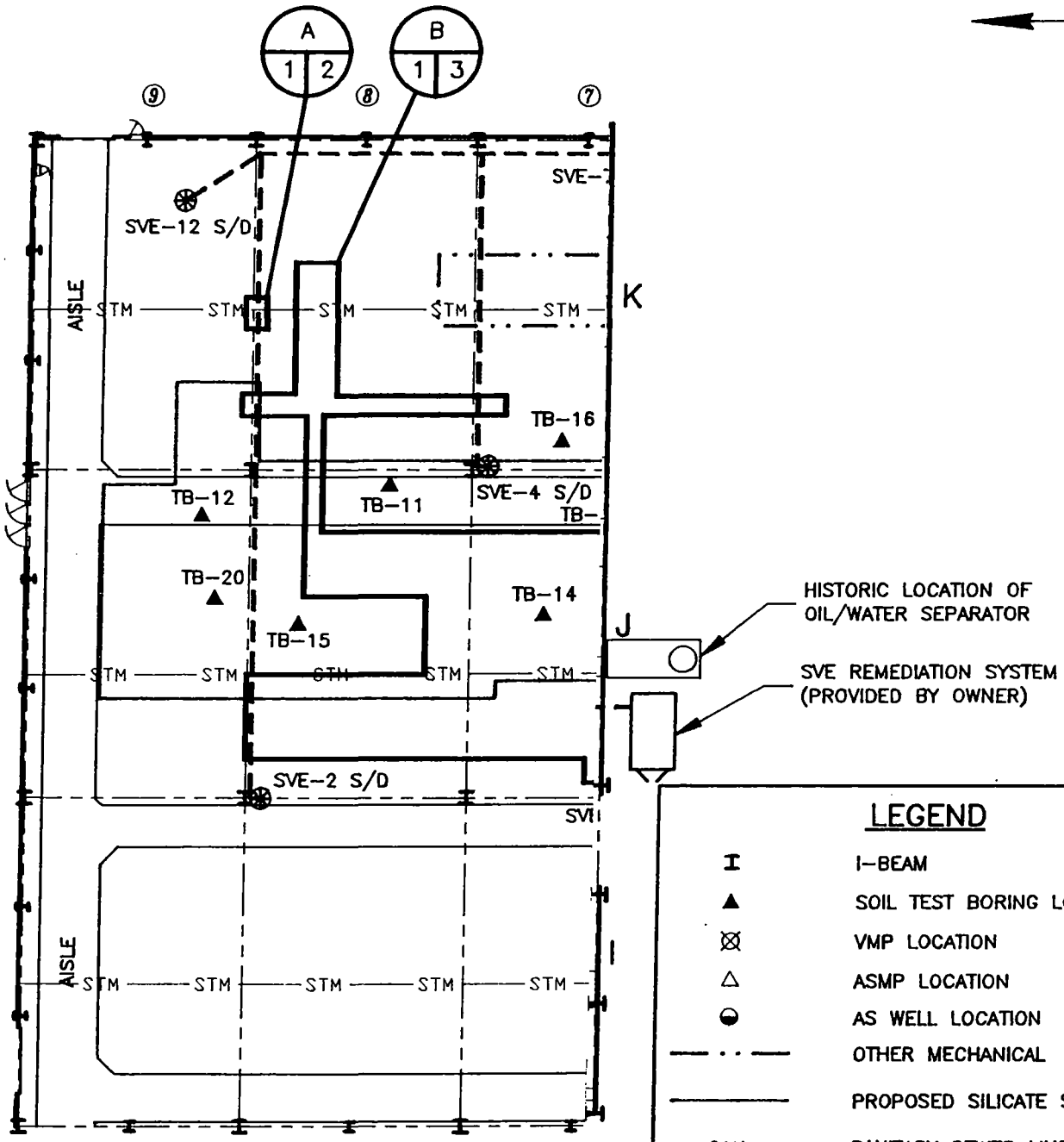


LEGEND

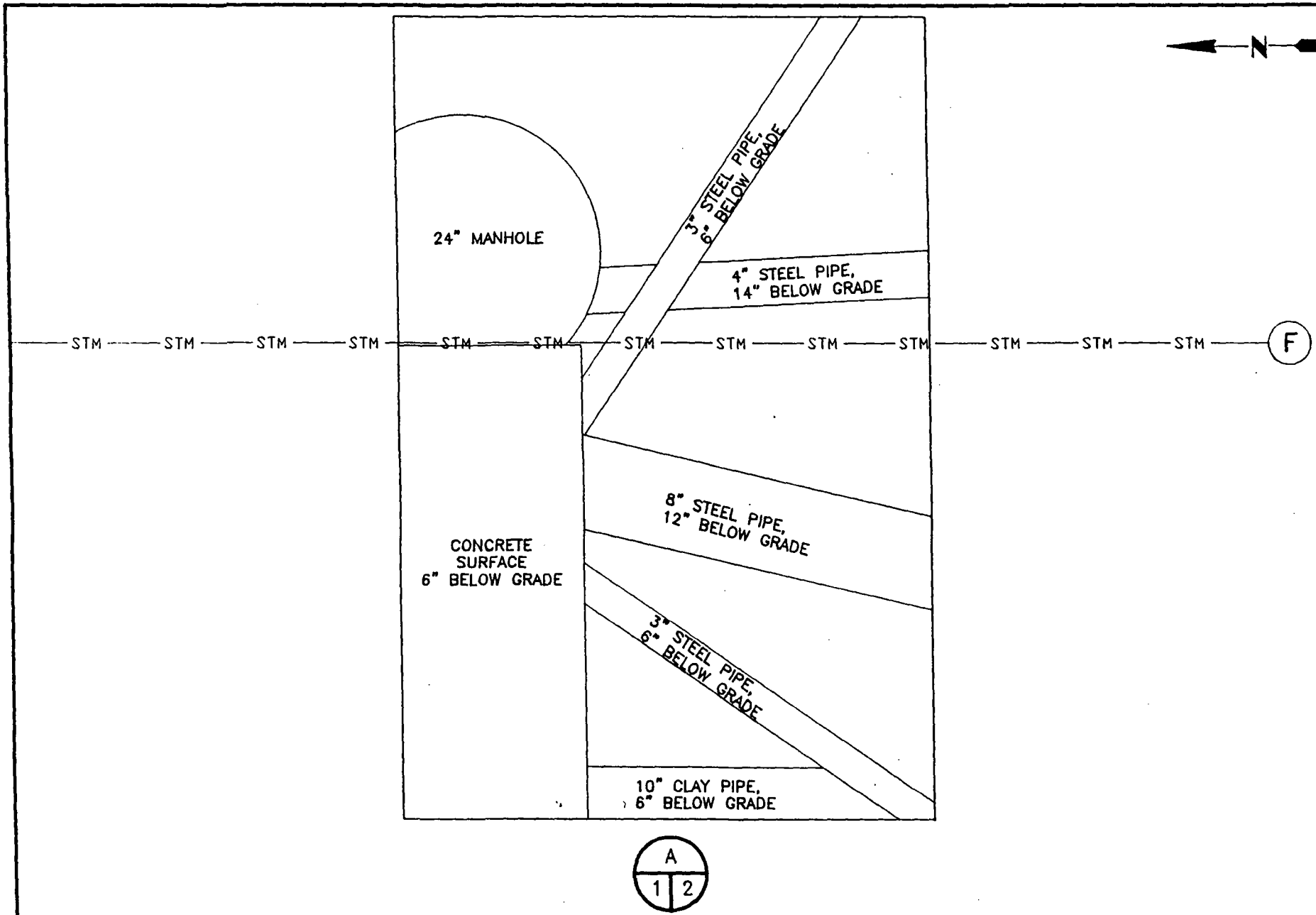
I	I-BEAM
▲	SOIL TEST BORING LOCATION
⊠	VMP LOCATION
△	ASMP LOCATION
◒	AS WELL LOCATION
— · · —	OTHER MECHANICAL
———	PROPOSED SILICATE SYSTEM
—SAN—	SANITARY SEWER LINE
—STM—	STORM SEWER LINE
⊛	EXISTING SVE WELL LOCATION
— — —	ABOVE GRADE SVE PIPING, 4"ø SCH40 PVC, ANCHORED TO I-BEAM WALL
S/D	INDICATES SHALLOW (SCREENED 2-12' BG) & DEEP (SCREENED 15-20' BG) NESTED WELL

'ON THERMAL PRODUCTS PLANT

DAYTON, OHIO

BUILDING 40B LAYOUT

05P.DWG	DATE: AUGUST 1998	FIGURE: 1



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APPROX. SCALE IN FEET

DATE	REVISED

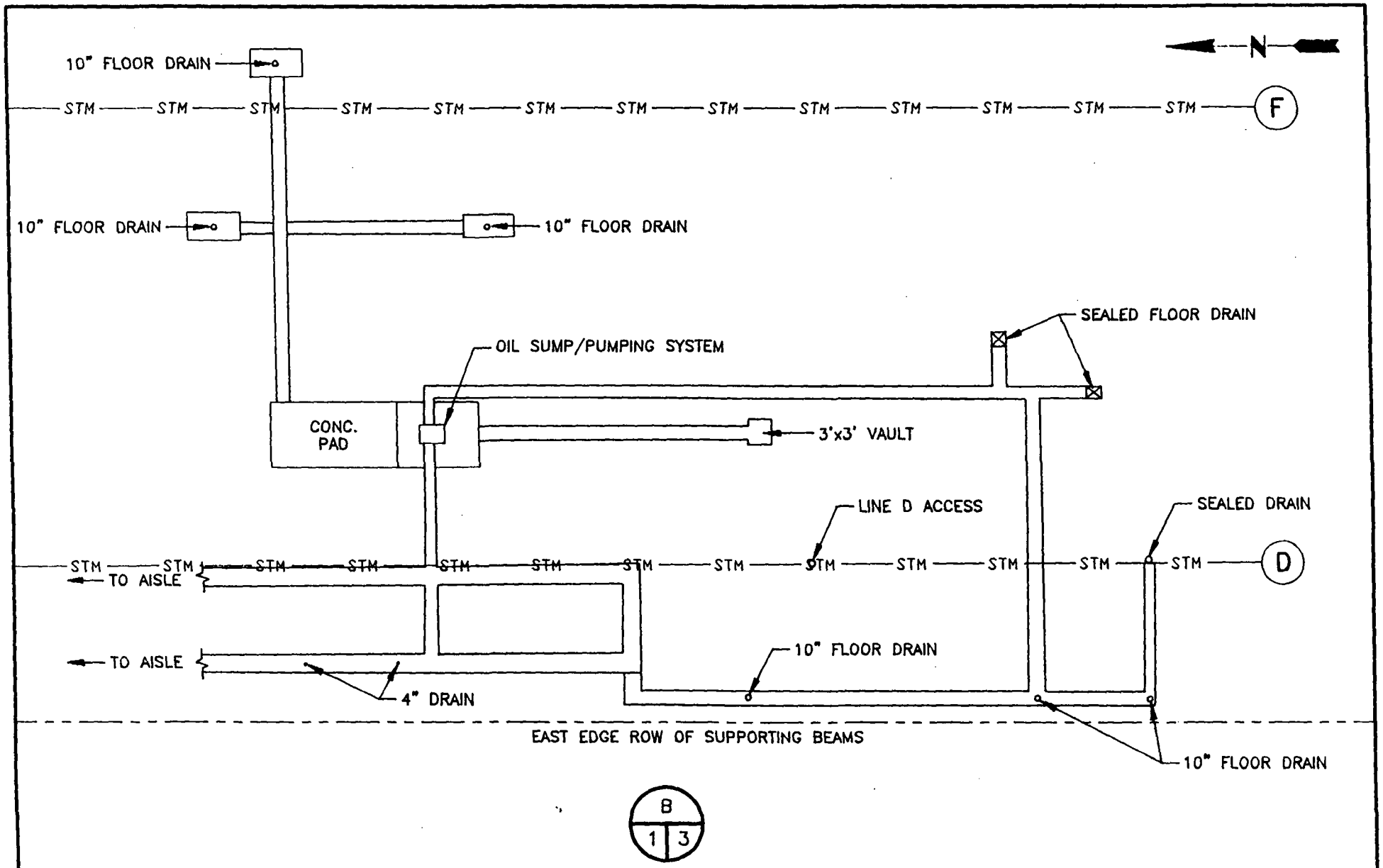
Prepared By:
LEGGETTE, BRASHEARS & GRAHAM, INC.
Professional Ground-Water and Environmental Services
Northpark Corporate Center
1210 W. County Road E, Suite 700
St. Paul, MN 55112
(651) 490-1405

DAYTON THERMAL PRODUCTS PLANT

DAYTON, OHIO

SUB-GRADE PIPING DETAIL

FILE: 3CHDA05R.DWG | DATE: AUGUST 1998 | FIGURE: 2



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APPROX. SCALE IN FEET

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St. Paul, MN 55112
(651) 490-1405

DAYTON THERMAL PRODUCTS PLANT

DAYTON, OHIO

NEWER CONCRETE DETAILS

FILE: 3CHDA050.DWG | DATE: AUGUST 1998 | FIGURE: 3

Table 1
DAYTON THERMAL PRODUCTS PLANT
BUILDING 40B

SUMMARY OF POSITIVE VOC/SVOC DETECTIONS IN SOIL

BORING LOCATION	SAMPLE DEPTH (FEET)	DATE COLLECTED	UNITS	1,2-DI-CHLORO-ETHENE (TOTAL)	1,1,1-TRI-CHLORO-ETHANE	TRI-CHLORO-ETHENE	TETRA-CHLORO-ETHENE	PHENOL	METHYLENE CHLORIDE
TB-1	7-9	11-Dec-97	ug/kg	<5.2	<5.2	<5.2	<5.2	–	21
TB-1 TCLP	7-9	11-Dec-97	mg/L	–	–	<0.025	<0.025	<0.050	–
TB-3	13-15	11-Dec-97	ug/kg	<5.2	<5.2	<5.2	<5.2	–	16
TB-3 TCLP	13-15	11-Dec-97	mg/L	–	–	<0.025	<0.025	<0.050	–
TB-4	3-5	12-Dec-97	ug/kg	34	<6.1	44	120	–	41
TB-4 TCLP	3-5	12-Dec-97	mg/L	–	–	<0.025	0.025	<0.050	–
TB-4	14-16	12-Dec-97	ug/kg	<5.2	<5.2	21	95	–	8.3
TB-4 TCLP	14-16	12-Dec-97	mg/L	–	–	<0.025	0.038	<0.050	–
TB-6	3-5	12-Dec-97	ug/kg	9.0	<6.8	64	<6.8	–	54
TB-6 TCLP	3-5	12-Dec-97	mg/L	–	–	<0.025	<0.025	<0.050	–
TB-9	3-5	13-Dec-97	ug/kg	20,000	25,000	380,000	180,000	–	<14,000
TB-9 TCLP	3-5	13-Dec-97	mg/L	–	–	0.70	0.19	<0.050	–
TB-10	1-3	13-Dec-97	ug/kg	66,000	15,000	420,000	43,000	–	<14,000
TB-10 TCLP	1-3	13-Dec-97	mg/L	–	–	0.75	0.049	<0.050	–
TB-12	5-7	13-Dec-97	ug/kg	<5.2	<5.2	<5.2	<5.2	–	<5.2
TB-12 TCLP	5-7	13-Dec-97	mg/L	–	–	<0.025	<0.025	0.072	–

VOC: VOLATILE ORGANIC COMPOUND

SVOC: SEMI-VOLATILE ORGANIC COMPOUND

–: NOT ANALYZED

TCLP: TOXICITY CHARACTERISTIC LEACHING PROCEDURE

mg/L: MILLIGRAMS PER LITER

ug/L: MICROGRAMS PER LITER

ug/kg: MICROGRAMS PER KILOGRAM

<: LESS THAN DETECTION LIMIT

[ ] = positive detection

State of Wisconsin
Department of Natural Resources

Route To:
- Solid Waste
- Emergency Response
- Wastewater
- Haz. Waste
- Underground Tanks
- Water Resources
- Other

Soil Boring Log Information

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Dayton Thermal, Chrysler Corporation		TB1

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Carlo Environmental	12/11/97	12/11/97	HSA

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		TB1	Feet MSL	Feet MSL	6.0 Inches

Boring Location
State Plane N, E
1/4 of 1/4 of Section T N.R
Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
Feet ☐ N ☐ S Feet ☐ E ☐ W

County	DNR County Code	Civil Town/City/ or Village
Montgomery		Dayton

Sample Number	Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
1	20	3 4 3 4	1 2	Silty Clay, brown; little gravel, tan.	CL ML			2.7	7					
2	24	3 3 3 4	3 4	Silty Clay; little gravel; trace sand; brown.				1.5	6					
3	18	6 6 8 7	5 6					1.6	14					
4	24	7 7 7 12	7 8	Sand, medium, some fine; little gravel; brown.	SP			1.4	14					
5	18	7 7 9 6	9 10					1.2	16					
6	20	7 9	11 12					1.4	19					

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature

Firm
Leggette, Brashears & Graham, Inc.
6525 Grand Teton Plaza Madison, WI 53719
Tel: (608)833-5555, Fax: (608)833-5551

This form is authorized by Chapters 144, 147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than $10 nor more than $5,000 for each violation. Fined not less than $10 or more than $100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

Boring Number **TB1** Use only as an attachment to Form 4400-122.

Sample Number	Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
		10, 7	13											
7	16	6, 10, 11, 13	14					1.0	21					
8	16	11, 18, 18, 19	15, 16					1.6	36					
9	20	10, 11, 15, 17	17, 18					2.5	26					
10	24	13, 23, 20, 17	19, 20					3.6	43					
11	24	38, 60, 62, 62	21, 22	**Sand, medium - fine, and fine, rounded Gravel**; brown.				20.7	122					
12	12	21, 24, 27, 33	23, 24					29.0	51					
13	20	20, 23, 27, 29	25, 26					80.0	50					
14	24	20, 38, 24, 31	27, 28					97.0	62					
15	24	17, 25, 38, 42	29, 30					174	63					
			31	EOB at 31 feet.										

State of Wisconsin
Department of Natural Resources

Route To:
- Solid Waste
- Emergency Response
- Wastewater
- Haz. Waste
- Underground Tanks
- Water Resources
- Other

Soil Boring Log Information

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Dayton Thermal, Chrysler Corporation		**TB2**

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Carlo Environmental	**12/11/97**	**12/11/97**	**HSA**

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	**6.0** Inches

Boring Location
State Plane **N, E** Lat ° ' "
1/4 of 1/4 of Section T N,R Long ° ' "

Local Grid Location (If applicable)
Feet ☐ N ☐ S Feet ☐ E ☐ W

County	DNR County Code	Civil Town/City/ or Village
Montgomery		**Dayton**

Sample Number	Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
1	4	2, 4, 5, 6	1, 2	**Silty Clay**, brown; little gravel, tan.	CL ML			0.8	9					
2	24	2, 7, 5, 8	3, 4	**Silty Clay**, brown; litte gravel; trace sand; tan.				2.5	12					
3	24	4, 6, 8, 10	5, 6	**Silty Clay**, stiff, brown.				2.8	14					
4			7, 8	No recovery.										
5	24	7, 20, 20, 31	9, 10	**Sand**, medium - coarse; some gravel; brown.	SP			2.3	40					
6	24	11, 13	11, 12					2.1	25					

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature

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Leggette, Brashears & Graham, Inc.
6525 Grand Teton Plaza Madison, WI 53719
Tel: (608)833-5555, Fax: (608)833-5551

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Boring Number **TB2** *Use only as an attachment to Form 4400-122.*

Sample Number	Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
		12												
		10												
7	20	8	13					1.7	17					
		9												
		8	14											
		7												
8	24	7	15					1.4	30					
		16												
		14	16											
		12												
			17	EOB at 17 feet.										

State of Wisconsin
Department of Natural Resources

Route To:
- Solid Waste
- Emergency Response
- Wastewater
- Haz. Waste
- Underground Tanks
- Water Resources
- Other

Soil Boring Log Information

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Dayton Thermal, Chrysler Corporation		**TB3**

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Carlo Environmental	**12/12/97**	**12/12/97**	**HSA**

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	**6.0** Inches

Boring Location
State Plane N, E
1/4 of 1/4 of Section T N.R
Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
Feet ☐ N ☐ S Feet ☐ E ☐ W

County	DNR County Code	Civil Town/City/ or Village
Montgomery		**Dayton**

Sample Number	Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
1	24	10, 8, 9, 12	1, 2	Silty Clay, brown; little gravel, tan.	CL ML			1.7	17					
2	20	4, 7, 8, 10	3, 4					2.2	15					
3	24	4, 8, 14, 14	5, 6	Silty Clay, brown.				1.7	22					
				Sand, medium - coarse, brown.	SP									
4	24	8, 9, 14, 19	7, 8	Sand, medium - fine; some gravel; brown.				2.3	23					
5	24	12, 20, 33, 39	9, 10					2.0	53					
6	24	13, 23	11, 12					0.7	47					

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature

Firm

Leggette, Brashears & Graham, Inc.
6525 Grand Teton Plaza Madison, WI 53719
Tel: (608)833-5555, Fax: (608)833-5551

This form is authorized by Chapters 144, 147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than $10 nor more than $5,000 for each violation. Fined not less than $10 or more than $100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

Boring Number **TB3** Use only as an attachment to Form 4400-122.

Sample Number	Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
		24 23												
7	24	15 20 11 12	13 14	**Sand, medium - fine, and Gravel,** rounded; brown.				3.0	31					
8	24	8 15 21 22	15 16					0.7	36					
9	24	10 20 26 33	17 18	**Sand, medium, and Gravel**, rounded; occasional cobble; brown.				1.8	46					
10	6	30 125/4	19 20					2.0						
11	24	11 23 25 25	21 22					13.3	48					
12	20	12 23 120	23 24					16.3	143					
13	3	110/2	25 26					0.4						
14	20	4 21 33 62	27 28	**Sand**, medium - coarse; little rounded gravel; brown.				8.3	54					
15	20	8 18 37 40	29 30					4.2	55					
			31	EOB at 31 feet.										

State of Wisconsin
Department of Natural Resources

Route To:
- Solid Waste
- Emergency Response
- Wastewater
- Haz. Waste
- Underground Tanks
- Water Resources
- Other

Soil Boring Log Information

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Dayton Thermal, Chrysler Corporation		**TB4**

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Carlo Environmental	**12/12/97**	**12/12/97**	**HSA**

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	**6.0** Inches

Boring Location
State Plane N, E
1/4 of 1/4 of Section T N,R

Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
Feet ☐ N ☐ S Feet ☐ E ☐ W

County	DNR County Code	Civil Town/City/ or Village
Montgomery		**Dayton**

Sample Number	Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
1	24	2 4 4 6	1 2	**Silty Clay and medium - fine Sand**; brown.	CL ML			6.2	8					
2	20	2 2 5 6	3 4	**Silty Clay and fine, rounded Gravel**; brown.				1.5	7					
3	20	8 11 16 12	5 6 7	**Sand, medium - fine, and fine, rounded Gravel**, brown.	SP			4.1	27					
4	24	7 28 28 26	8 9 10					6.2	56					
5	20	12 24 35 31	11 12					8.1	59					

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature

Firm

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Boring Number **TB4** Use only as an attachment to Form 4400-122.

Sample Number	Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
6	18	5 11 17 21	13					7.7	28					
7	24	9 19 15 13	14 15					6.5	34					
			16	EOB at 16 feet.										

State of Wisconsin
Department of Natural Resources

Route To:
- Solid Waste
- Emergency Response
- Wastewater
- Haz. Waste
- Underground Tanks
- Water Resources
- Other

Soil Boring Log Information

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Dayton Thermal, Chrysler Corporation		**TB5**

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Carlo Environmental	**12/12/97**	**12/12/97**	**HSA**

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	**6.0** Inches

Boring Location
State Plane **N, E** Lat ° ' "
1/4 of 1/4 of Section T N.R Long ° ' "

Local Grid Location (If applicable)
Feet ☐ N ☐ S Feet ☐ E ☐ W

County	DNR County Code	Civil Town/City/ or Village
Montgomery		**Dayton**

Sample Number	Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
1	24	10, 11, 17, 19	1, 2	**Silty Clay and medium - fine Sand**; little gravel; brown.	CL ML			12.9	28					
2	24	5, 10, 7, 8	3, 4	**Silty Clay**; little medium sand; trace gravel; brown.				8.7	17					
3	24	4, 5, 7, 13	5, 6	**Silty Clay**; little gravel; brown.				3.0	12					
			7	EOB at 7 feet.										

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State of Wisconsin
Department of Natural Resources

Route To:
- Solid Waste
- Emergency Response
- Wastewater
- Haz. Waste
- Underground Tanks
- Water Resources
- Other

Soil Boring Log Information

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Dayton Thermal, Chrysler Corporation		**TB6**

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Carlo Environmental	**12/12/97**	**12/12/97**	**HSA**

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	**6.0** Inches

Boring Location
State Plane N, E Lat ° ' "
1/4 of 1/4 of Section T N.R Long ° ' "

Local Grid Location (If applicable)
Feet ☐ N ☐ S Feet ☐ E ☐ W

County	DNR County Code	Civil Town/City/ or Village
Montgomery		**Dayton**

Sample Number	Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
1	18	4, 17, 13, 11	1, 2	**Silty Clay and medium - fine Sand**; little gravel; brown.	CL ML			11.2	30					
2	24	4, 8, 8, 9	3, 4	**Silty Clay and some rounded Gravel**; brown.				9.4	16					
3	20	10, 11, 10, 9	5, 6	**Sand**, medium - coarse; little rounded gravel; trace silt; brown.	SP			3.2	21					
			7	EOB at 7 feet.										

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State of Wisconsin
Department of Natural Resources

Route To:
- Solid Waste
- Emergency Response
- Wastewater
- Haz. Waste
- Underground Tanks
- Water Resources
- Other

Soil Boring Log Information

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Dayton Thermal, Chrysler Corporation		**TB7**

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Carlo Environmental	**12/13/97**	**12/13/97**	**HSA**

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	**6.0** Inches

Boring Location
State Plane **N, E** Lat ° ' "
1/4 of 1/4 of Section T N.R Long ° ' "

Local Grid Location (If applicable)
Feet ☐ N ☐ S Feet ☐ E ☐ W

County	DNR County Code	Civil Town/City/ or Village
Montgomery		**Dayton**

Sample Number	Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
1	24	2, 16, 17, 14	1, 2	**Silty Clay**; some medium - fine sand; little gravel; brown.	CL ML			3.6	33					
2	24	6, 10, 11, 14	3, 4	**Silty Clay and some rounded Gravel**; brown.				3.2	21					
3	24	7, 7, 19, 17	5, 6	**Sand**, medium - fine; little rounded gravel; brown.	SP			3.1	26					
			7	EOB at 7 feet.										

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Signature

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State of Wisconsin
Department of Natural Resources

Route To:
- Solid Waste
- Emergency Response
- Wastewater
- Haz. Waste
- Underground Tanks
- Water Resources
- Other

Soil Boring Log Information

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Dayton Thermal, Chrysler Corporation		**TB8**

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Carlo Environmental	**12/13/97**	**12/13/97**	**HSA**

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	**6.0** Inches

Boring Location			Local Grid Location (If applicable)
State Plane	**N, E**	Lat ° ' "	Feet ☐ N ☐ S Feet ☐ E ☐ W
1/4 of 1/4 of Section	T N.R	Long ° ' "	

County	DNR County Code	Civil Town/City/ or Village
Montgomery		**Dayton**

Sample Number	Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
1	24	4 7 8 11	1 2	Silty Clay; some medium - fine sand; some coarse gravel; brown.	CL ML			16.4	15					
2	24	7 7 12 14	3 4	Silty Clay; brown.				8.0	19					
				Sand, medium - coarse, and small Gravel; brown.	SP									
3	20	12 13 19 13	5 6 7	Sand, medium - coarse; brown.				2.3	32					
				EOB at 7 feet.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature

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State of Wisconsin
Department of Natural Resources

Route To:
- Solid Waste
- Emergency Response
- Wastewater
- Haz. Waste
- Underground Tanks
- Water Resources
- Other

Soil Boring Log Information

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Dayton Thermal, Chrysler Corporation		**TB9**

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Carlo Environmental	**12/13/97**	**12/13/97**	**HSA**

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	**6.0** Inches

Boring Location
State Plane **N, E** Lat ° ' "
1/4 of 1/4 of Section T N,R Long ° ' "

Local Grid Location (If applicable)
Feet ☐ N ☐ S Feet ☐ E ☐ W

County: **Montgomery** DNR County Code: Civil Town/City/ or Village: **Dayton**

Sample Number	Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
				Sand, medium - coarse; some gravel.	SP									
1	22	3, 7, 8, 9	1, 2	**Silty Clay and Gravel**; brown.	CL, ML			16.2	15					
2	14	4, 7, 8, 10	3, 4	**Silty Clay and medium Sand**; some ash/flakes; black.				38.2	15					
3	24	8, 12, 18, 20	5, 6	**Sand, medium - coarse, and Gravel**; little silt; brown.	SP			17.0	30					
			7	EOB at 7 feet.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature

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State of Wisconsin
Department of Natural Resources

Route To:
- Solid Waste
- Emergency Response
- Wastewater
- Haz. Waste
- Underground Tanks
- Water Resources
- Other

Soil Boring Log Information

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Dayton Thermal, Chrysler Corporation		**TB10**

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Carlo Environmental	**12/13/97**	**12/13/97**	**HSA**

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	**6.0** Inches

Boring Location
State Plane N, E
1/4 of 1/4 of Section T N,R
Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
Feet ☐ N ☐ S Feet ☐ E ☐ W

County	DNR County Code	Civil Town/City/ or Village
Montgomery		**Dayton**

Sample Number	Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
1	14	7, 12, 12, 17	1, 2	Gravel and Ash; black; little silty clay, brown.	GP			35	24					
2	18	6, 9, 8, 9	3, 4	Sand, medium, and Silt; brown.	SM			8.4	17					
				Sand, medium: little gravel; brown.	SP									
3	22	12, 17, 19, 24	5, 6	Sand, medium - fine: litle gravel; brown.				8.1	36					
			7	EOB at 7 feet.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature

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State of Wisconsin
Department of Natural Resources

Route To:
- Solid Waste
- Emergency Response
- Wastewater
- Haz. Waste
- Underground Tanks
- Water Resources
- Other

Soil Boring Log Information

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Dayton Thermal, Chrysler Corporation		**TB11**

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Carlo Environmental	**12/13/97**	**12/13/97**	**HSA**

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	**6.0** Inches

Boring Location			Local Grid Location (If applicable)
State Plane	**N, E**	Lat ° ' "	Feet ☐ N ☐ S Feet ☐ E ☐ W
1/4 of 1/4 of Section	T N,R	Long ° ' "	

County	DNR County Code	Civil Town/City/ or Village
Montgomery		**Dayton**

Sample Number	Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
1	20	7 8 12 14	1 2	**Silty Clay and medium Sand**; little gravel; brown.	CL ML			15.2	20					
2	20	5 8 6 7	3 4					15.7	14					
3	16	5 7 14 18	5 6	**Sand**, medium - coarse; little gravel; brown.	SP			8.6	21					
			7	EOB at 7 feet.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature

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State of Wisconsin
Department of Natural Resources

Route To:
- Solid Waste
- Emergency Response
- Wastewater
- Haz. Waste
- Underground Tanks
- Water Resources
- Other

Soil Boring Log Information

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Dayton Thermal, Chrysler Corporation		**TB12**

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Carlo Environmental	**12/13/97**	**12/13/97**	**HSA**

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	**6.0** Inches

Boring Location			Local Grid Location (If applicable)
State Plane	**N, E**	Lat ° ' "	Feet ☐ N ☐ S Feet ☐ E ☐ W
1/4 of 1/4 of Section	T N.R	Long ° ' "	

County	DNR County Code	Civil Town/City/ or Village
Montgomery		**Dayton**

Sample Number	Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
			1											
1	24	5 7 12 15	2	**Silty Clay and medium Sand**; little gravel; brown.	CL ML			1.2	19					
2	24	12 13 11 15	3 4	**Sand**, medium - coarse; little gravel; brown.	SP			0.8	24					
3	24	11 17 22 28	5 6					2.1	39					
			7	EOB at 7 feet.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature]

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State of Wisconsin
Department of Natural Resources

Route To:
- Solid Waste
- Emergency Response
- Wastewater
- Haz. Waste
- Underground Tanks
- Water Resources
- Other

Soil Boring Log Information

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Dayton Thermal, Chrysler Corporation		TB1

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Carlo Environmental	12/11/97	12/11/97	HSA

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		TB1	Feet MSL	Feet MSL	6.0 Inches

Boring Location		Local Grid Location (If applicable)
State Plane N, E	Lat ° ' "	Feet ☐ N ☐ S Feet ☐ E ☐ W
1/4 of 1/4 of Section T N,R	Long ° ' "	

County	DNR County Code	Civil Town/City/ or Village
Montgomery		Dayton

Sample Number	Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
1	20	3 4 3 4	1 2	Silty Clay, brown; little gravel, tan.	CL ML			2.7	7					
2	24	3 3 3 4	3 4	Silty Clay; little gravel; trace sand; brown.				1.5	6					
3	18	6 6 8 7	5 6					1.6	14					
4	24	7 7 7 12	7 8	Sand, medium, some fine; little gravel; brown.	SP			1.4	14					
5	18	7 7 9 6	9 10					1.2	16					
6	20	7 9	11 12					1.4	19					

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
[signature]	Leggette, Brashears & Graham, Inc. 6525 Grand Teton Plaza Madison, WI 53719 Tel: (608)833-5555, Fax: (608)833-5551

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Boring Number **TB1** Use only as an attachment to Form 4400-122.

Sample Number	Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
		10, 7	13											
7	16	6, 10, 11, 13	14					1.0	21					
			15											
8	16	11, 18, 18, 19	16					1.6	36					
			17											
9	20	10, 11, 15, 17	18					2.5	26					
			19											
10	24	13, 23, 20, 17	20					3.6	43					
			21											
11	24	38, 60, 62, 62	22	Sand, medium - fine, and fine, rounded Gravel; brown.				20.7	122					
			23											
12	12	21, 24, 27, 33	24					29.0	51					
			25											
13	20	20, 23, 27, 29	26					80.0	50					
			27											
14	24	20, 38, 24, 31	28					97.0	62					
			29											
15	24	17, 25, 38, 42	30					174	63					
			31	EOB at 31 feet.										

State of Wisconsin
Department of Natural Resources

Route To:
- Solid Waste
- Emergency Response
- Wastewater
- Haz. Waste
- Underground Tanks
- Water Resources
- Other

Soil Boring Log Information

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Dayton Thermal, Chrysler Corporation		TB2

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Carlo Environmental	12/11/97	12/11/97	HSA

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	6.0 Inches

Boring Location
State Plane N, E
1/4 of 1/4 of Section T N.R
Lat ° ' "
Long ° ' "
Local Grid Location (If applicable)
Feet ☐ N ☐ S Feet ☐ E ☐ W

County	DNR County Code	Civil Town/City/ or Village
Montgomery		Dayton

Sample Number	Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
1	4	2 4 5 6	1 2	Silty Clay, brown; little gravel, tan.	CL ML			0.8	9					
2	24	2 7 5 8	3 4	Silty Clay, brown; litte gravel; trace sand; tan.				2.5	12					
3	24	4 6 8 10	5 6	Silty Clay, stiff, brown.				2.8	14					
4			7 8	No recovery.										
5	24	7 20 20 31	9 10	Sand, medium - coarse; some gravel; brown.	SP			2.3	40					
6	24	11 13	11 12					2.1	25					

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature

Firm: Leggette, Brashears & Graham, Inc.
6525 Grand Teton Plaza Madison, WI 53719
Tel: (608)833-5555, Fax: (608)833-5551

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Boring Number **TB2** Use only as an attachment to Form 4400-122.

Sample Number	Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
		12												
		10												
7	20	8	13					1.7	17					
		9												
		8	14											
		7												
8	24	7	15					1.4	30					
		16												
		14	16											
		12												
			17	EOB at 17 feet.										

State of Wisconsin
Department of Natural Resources

Route To:
- Solid Waste
- Emergency Response
- Wastewater
- Haz. Waste
- Underground Tanks
- Water Resources
- Other

Soil Boring Log Information

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Dayton Thermal, Chrysler Corporation		TB3

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Carlo Environmental	12/12/97	12/12/97	HSA

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	6.0 Inches

Boring Location
State Plane N, E
1/4 of 1/4 of Section T N.R
Lat ° ' "
Long ° ' "
Local Grid Location (If applicable)
Feet ☐ N ☐ S Feet ☐ E ☐ W

County	DNR County Code	Civil Town/City/ or Village
Montgomery		Dayton

Sample Number	Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
1	24	10, 8, 9, 12	1, 2	Silty Clay, brown; little gravel, tan.	CL ML			1.7	17					
2	20	4, 7, 8, 10	3, 4					2.2	15					
3	24	4, 8, 14, 14	5, 6	Silty Clay, brown.				1.7	22					
				Sand, medium - coarse, brown.	SP									
4	24	8, 9, 14, 19	7, 8	Sand, medium - fine; some gravel; brown.				2.3	23					
5	24	12, 20, 33, 39	9, 10					2.0	53					
6	24	13, 23	11, 12					0.7	47					

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Kim S. Hansen

Firm: Leggette, Brashears & Graham, Inc.
6525 Grand Teton Plaza Madison, WI 53719
Tel: (608)833-5555, Fax: (608)833-5551

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Boring Number **TB3** Use only as an attachment to Form 4400-122.

Sample Number	Length (in) Recovered	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
		24 23												
7	24	15 20 11 12	13 14	Sand, medium - fine, and Gravel, rounded; brown.				3.0	31					
8	24	8 15 21 22	15 16					0.7	36					
9	24	10 20 26 33	17 18	Sand, medium, and Gravel, rounded; occasional cobble; brown.				1.8	46					
10	6	30 125/4	19 20					2.0						
11	24	11 23 25 25	21 22					13.3	48					
12	20	12 23 120	23 24					16.3	143					
13	3	110/2	25 26					0.4						
14	20	4 21 33 62	27 28	Sand, medium - coarse; little rounded gravel; brown.				8.3	54					
15	20	8 18 37 40	29 30					4.2	55					
			31	EOB at 31 feet.										

State of Wisconsin
Department of Natural Resources

Route To:
- Solid Waste
- Emergency Response
- Wastewater
- Haz. Waste
- Underground Tanks
- Water Resources
- Other

Soil Boring Log Information

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Dayton Thermal, Chrysler Corporation		TB4

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Carlo Environmental	12/12/97	12/12/97	HSA

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	6.0 Inches

Boring Location
State Plane N, E
1/4 of 1/4 of Section T N.R
Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
Feet ☐ N ☐ S Feet ☐ E ☐ W

County	DNR County Code	Civil Town/City/ or Village
Montgomery		Dayton

Sample Number	Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
1	24	2 4 4 6	1 2	Silty Clay and medium - fine Sand; brown.	CL ML			6.2	8					
2	20	2 2 5 6	3 4	Silty Clay and fine, rounded Gravel; brown.				1.5	7					
3	20	8 11 16 12	5 6 7	Sand, medium - fine, and fine, rounded Gravel, brown.	SP			4.1	27					
4	24	7 28 28 26	8 9					6.2	56					
5	20	12 24 35 31	10 11 12					8.1	59					

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature

Firm

Leggette, Brashears & Graham, Inc.
6525 Grand Teton Plaza Madison, WI 53719
Tel: (608)833-5555, Fax: (608)833-5551

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Boring Number **TB4** Use only as an attachment to Form 4400-122.

Sample Number	Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
6	18	5						7.7	28					
		11												
		17	13											
		21												
			14											
7	24	9						6.5	34					
		19												
		15	15											
		13												
			16	EOB at 16 feet.										

State of Wisconsin
Department of Natural Resources

Route To:
- Solid Waste
- Emergency Response
- Wastewater
- Haz. Waste
- Underground Tanks
- Water Resources
- Other

Soil Boring Log Information

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Dayton Thermal, Chrysler Corporation		TB5

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Carlo Environmental	12/12/97	12/12/97	HSA

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	6.0 Inches

Boring Location
State Plane N, E
1/4 of 1/4 of Section T N.R
Lat ° ' "
Long ° ' "
Local Grid Location (If applicable)
Feet ☐ N ☐ S Feet ☐ E ☐ W

County	DNR County Code	Civil Town/City/ or Village
Montgomery		Dayton

Sample Number	Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
1	24	10, 11, 17, 19	1, 2	Silty Clay and medium - fine Sand; little gravel; brown.	CL ML			12.9	28					
2	24	5, 10, 7, 8	3, 4	Silty Clay; little medium sand; trace gravel; brown.				8.7	17					
3	24	4, 5, 7, 13	5, 6	Silty Clay; little gravel; brown.				3.0	12					
			7	EOB at 7 feet.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature

Firm: Leggette, Brashears & Graham, Inc.
6525 Grand Teton Plaza Madison, WI 53719
Tel: (608)833-5555. Fax: (608)833-5551

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State of Wisconsin
Department of Natural Resources

Route To:
- Solid Waste
- Emergency Response
- Wastewater
- Haz. Waste
- Underground Tanks
- Water Resources
- Other

Soil Boring Log Information

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Dayton Thermal, Chrysler Corporation		TB6

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Carlo Environmental	12/12/97	12/12/97	HSA

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	6.0 Inches

Boring Location		Local Grid Location (If applicable)
State Plane N, E	Lat ° ' "	☐ N ☐ E
1/4 of 1/4 of Section T N,R	Long ° ' "	Feet ☐ S Feet ☐ W

County	DNR County Code	Civil Town/City/ or Village
Montgomery		Dayton

Sample Number	Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
1	18	4, 17, 13, 11	1, 2	Silty Clay and medium - fine Sand; little gravel; brown.	CL ML			11.2	30					
2	24	4, 8, 8, 9	3, 4	Silty Clay and some rounded Gravel; brown.				9.4	16					
3	20	10, 11, 10, 9	5, 6	Sand, medium - coarse; little rounded gravel; trace silt; brown.	SP			3.2	21					
			7	EOB at 7 feet.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
[illegible]	Leggette, Brashears & Graham, Inc. 6525 Grand Teton Plaza Madison, WI 53719 Tel: (608)833-5555, Fax: (608)833-5551

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State of Wisconsin
Department of Natural Resources

Route To:
- Solid Waste
- Emergency Response
- Wastewater
- Haz. Waste
- Underground Tanks
- Water Resources
- Other

Soil Boring Log Information

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Dayton Thermal, Chrysler Corporation		TB7

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Cario Environmental	12/13/97	12/13/97	HSA

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	6.0 Inches

Boring Location
State Plane N, E
1/4 of 1/4 of Section T N,R
Lat ° ' "
Long ° ' "
Local Grid Location (If applicable)
Feet ☐ N ☐ S Feet ☐ E ☐ W

County	DNR County Code	Civil Town/City/ or Village
Montgomery		Dayton

Sample Number	Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
1	24	2, 16, 17, 14	1, 2	Silty Clay; some medium - fine sand; little gravel; brown.	CL ML			3.6	33					
2	24	6, 10, 11, 14	3, 4	Silty Clay and some rounded Gravel; brown.				3.2	21					
3	24	7, 7, 19, 17	5, 6, 7	Sand, medium - fine; little rounded gravel; brown.	SP			3.1	26					
				EOB at 7 feet.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature

Firm
Leggette, Brashears & Graham, Inc.
6525 Grand Teton Plaza Madison, WI 53719
Tel: (608)833-5555, Fax: (608)833-5551

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State of Wisconsin
Department of Natural Resources

Route To:
- Solid Waste
- Emergency Response
- Wastewater
- Haz. Waste
- Underground Tanks
- Water Resources
- Other

Soil Boring Log Information

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Dayton Thermal, Chrysler Corporation		TB8

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Carlo Environmental	12/13/97	12/13/97	HSA

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	6.0 Inches

Boring Location		Local Grid Location (If applicable)
State Plane N, E	Lat ° ' "	☐ N ☐ E
1/4 of 1/4 of Section T N,R	Long ° ' "	Feet ☐ S Feet ☐ W

County	DNR County Code	Civil Town/City/ or Village
Montgomery		Dayton

Sample Number	Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
1	24	4 7 8 11	1 2	Silty Clay; some medium - fine sand; some coarse gravel; brown.	CL ML			16.4	15					
2	24	7 7 12 14	3 4	Silty Clay; brown.				8.0	19					
				Sand, medium - coarse, and small Gravel; brown.	SP									
3	20	12 13 19 13	5 6 7	Sand, medium - coarse; brown.				2.3	32					
				EOB at 7 feet.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Kris S Hansen

Firm: Leggette, Brashears & Graham, Inc.
6525 Grand Teton Plaza Madison, WI 53719
Tel: (608)833-5555. Fax: (608)833-5551

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State of Wisconsin
Department of Natural Resources

Route To:
- Solid Waste
- Emergency Response
- Wastewater
- Haz. Waste
- Underground Tanks
- Water Resources
- Other

Soil Boring Log Information

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Dayton Thermal, Chrysler Corporation		TB9

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Carlo Environmental	12/13/97	12/13/97	HSA

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	6.0 Inches

Boring Location
State Plane N, E
1/4 of 1/4 of Section T N.R

Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
Feet ☐ N ☐ S Feet ☐ E ☐ W

County	DNR County Code	Civil Town/City/ or Village
Montgomery		Dayton

Sample Number	Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
				Sand, medium - coarse; some gravel.	SP									
1	22	3 7 8 9	1 2	Silty Clay and Gravel; brown.	CL ML			16.2	15					
2	14	4 7 8 10	3 4	Silty Clay and medium Sand; some ash/flakes; black.				38.2	15					
3	24	8 12 18 20	5 6 7	Sand, medium - coarse, and Gravel; little silt; brown.	SP			17.0	30					
				EOB at 7 feet.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [illegible]

Firm: Leggette, Brashears & Graham, Inc.
6525 Grand Teton Plaza Madison, WI 53719
Tel: (608)833-5555, Fax: (608)833-5551

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State of Wisconsin
Department of Natural Resources

Route To:
- Solid Waste
- Emergency Response
- Wastewater
- Haz. Waste
- Underground Tanks
- Water Resources
- Other

Soil Boring Log Information

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Dayton Thermal, Chrysler Corporation		TB10

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Carlo Environmental	12/13/97	12/13/97	HSA

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	6.0 Inches

Boring Location
State Plane N, E
1/4 of 1/4 of Section T N.R
Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
Feet ☐ N ☐ S Feet ☐ E ☐ W

County	DNR County Code	Civil Town/City/ or Village
Montgomery		Dayton

Sample Number	Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
1	14	7, 12, 12, 17	1, 2	Gravel and Ash; black; little silty clay, brown.	GP			35	24					
2	18	6, 9, 8, 9	3, 4	Sand, medium, and Silt; brown.	SM			8.4	17					
				Sand, medium; little gravel; brown.	SP									
3	22	12, 17, 19, 24	5, 6	Sand, medium - fine; litle gravel; brown.				8.1	36					
			7	EOB at 7 feet.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature]

Firm: Leggette, Brashears & Graham, Inc.
6525 Grand Teton Plaza Madison, WI 53719
Tel: (608)833-5555, Fax: (608)833-5551

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State of Wisconsin
Department of Natural Resources

Route To:
- Solid Waste
- Emergency Response
- Wastewater
- Haz. Waste
- Underground Tanks
- Water Resources
- Other

Soil Boring Log Information

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Dayton Thermal, Chrysler Corporation		TB11

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Carlo Environmental	12/13/97	12/13/97	HSA

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	6.0 Inches

Boring Location		Local Grid Location (If applicable)
State Plane N, E	Lat ° ' "	Feet ☐ N ☐ S Feet ☐ E ☐ W
1/4 of 1/4 of Section T N,R	Long ° ' "	

County	DNR County Code	Civil Town/City/ or Village
Montgomery		Dayton

Sample Number	Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
1	20	7 8 12 14	1 2	Silty Clay and medium Sand; little gravel; brown.	CL ML			15.2	20					
2	20	5 8 6 7	3 4					15.7	14					
3	16	5 7 14 18	5 6 7	Sand, medium - coarse; little gravel; brown.	SP			8.6	21					
				EOB at 7 feet.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Kim S. Hunzer

Firm: Leggette, Brashears & Graham, Inc.
6525 Grand Teton Plaza Madison, WI 53719
Tel: (608)833-5555, Fax: (608)833-5551

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State of Wisconsin
Department of Natural Resources

Route To:
- Solid Waste
- Emergency Response
- Wastewater
- Haz. Waste
- Underground Tanks
- Water Resources
- Other

Soil Boring Log Information

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Dayton Thermal, Chrysler Corporation		TB12

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Cario Environmental	12/13/97	12/13/97	HSA

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	6.0 Inches

Boring Location
State Plane N, E Lat ° ' "
1/4 of 1/4 of Section T N,R Long ° ' "

Local Grid Location (If applicable)
Feet ☐ N ☐ S Feet ☐ E ☐ W

County	DNR County Code	Civil Town/City/ or Village
Montgomery		Dayton

Sample Number	Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
1	24	5 7 12 15	1 2	Silty Clay and medium Sand; little gravel; brown.	CL ML			1.2	19					
2	24	12 13 11 15	3 4	Sand, medium - coarse; little gravel; brown.	SP			0.8	24					
3	24	11 17 22 28	5 6 7	EOB at 7 feet.				2.1	39					

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: K. S. Hansen

Firm: Leggette, Brashears & Graham, Inc.
6525 Grand Teton Plaza Madison, WI 53719
Tel: (608)833-5555, Fax: (608)833-5551

This form is authorized by Chapters 144, 147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than $10 nor more than $5,000 for each violation. Fined not less than $10 or more than $100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

State of Wisconsin
Department of Natural Resources

Route To:
- Solid Waste
- Emergency Response
- Wastewater
- Haz. Waste
- Underground Tanks
- Water Resources
- Other

Soil Boring Log Information

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Dayton Thermal, Chrysler Corporation		**TB13**

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Carlo Environmental	**04/06/98**	**04/06/98**	**HSA**

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	**6.0** Inches

Boring Location
State Plane **N, E** Lat ° ' "
1/4 of 1/4 of Section T N.R Long ° ' "

Local Grid Location (If applicable)
Feet ☐ N ☐ S Feet ☐ E ☐ W

County	DNR County Code	Civil Town/City/ or Village
Montgomery		**Dayton**

Sample Number	Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
1	20	8 6 6 5	1 2	**Silty Sand**, medium - fine; some gravel with little silty clay; brown.	SM			12.1	12					
2	18	3 3 6 12	3 4	**Silty Sand** with gravel; little clay; brown.				7.9	9					
3	6	5 5 9 11	5 6	**Sand**, medium - coarse; litle gravel; brown.	SP			56	14					
4	18	6 6 6 9	7 8					6.2	12					
			9	EOB at 9 feet.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature

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State of Wisconsin
Department of Natural Resources

Route To:
- Solid Waste
- Emergency Response
- Wastewater
- Haz. Waste
- Underground Tanks
- Water Resources
- Other

Soil Boring Log Information

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Dayton Thermal, Chrysler Corporation		**TB14**

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Carlo Environmental	**04/06/98**	**04/06/98**	**HSA**

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	**6.0** Inches

Boring Location
State Plane N, E
1/4 of 1/4 of Section T N.R
Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
Feet ☐ N ☐ S Feet ☐ E ☐ W

County	DNR County Code	Civil Town/City/ or Village
Montgomery		**Dayton**

Sample Number	Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
1	24	2 2 4 5	1 2	**Silty, Clayey Sand**, medium - fine, with little gravel; brown.	SM			0.8	6					
2	20	2 2 5 8	3 4	**Silty Clay**; little sand; brown - black.	CL ML			14.8	7					
3	18	8 11 9 10	5 6	**Sand**, medium - fine, with gravel; brown.	SP			1.6	20					
			7	EOB at 7 feet.										

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Signature

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State of Wisconsin
Department of Natural Resources

Route To:
- Solid Waste
- Emergency Response
- Wastewater
- Haz. Waste
- Underground Tanks
- Water Resources
- Other

Soil Boring Log Information

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Dayton Thermal, Chrysler Corporation		TB15

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Carlo Environmental	04/07/98	04/07/98	HSA

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	6.0 Inches

Boring Location
State Plane N, E Lat ° ' "
1/4 of 1/4 of Section T N.R Long ° ' "

Local Grid Location (If applicable)
Feet ☐ N ☐ S Feet ☐ E ☐ W

County	DNR County Code	Civil Town/City/ or Village
Montgomery		Dayton

Sample Number	Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
1	-	-	1, 2	Silty, Clayey Sand with fill sand from previous boring.	SM			0.1						
2	20	3, 6, 6, 8	3, 4	Silty Clay with little sand; brown.	CL ML			1.8	12					
3	24	8, 11, 9, 12	5, 6, 7	Sand, medium - fine, with little gravel; brown.	SP			1.2	20					
				EOB at 7 feet.										

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Signature

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State of Wisconsin
Department of Natural Resources

Route To:
- Solid Waste
- Emergency Response
- Wastewater
- Haz. Waste
- Underground Tanks
- Water Resources
- Other

Soil Boring Log Information

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Dayton Thermal, Chrysler Corporation		**TB16**

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Carlo Environmental	**04/07/98**	**04/07/98**	**HSA**

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	**6.0** Inches

Boring Location		Local Grid Location (If applicable)
State Plane **N, E**	Lat ° ' "	☐ N ☐ E
1/4 of 1/4 of Section T N.R	Long ° ' "	Feet ☐ S Feet ☐ W

County	DNR County Code	Civil Town/City/ or Village
Montgomery		**Dayton**

Sample Number	Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
1	-	7 9 6 6	1 2	No recovery.	CL ML			-	15					
2	8	10 15 13 14	3 4	**Silty Clay** with sand, medium, and gravel; brown.				0.8	28					
3	16	8 15 13 17	5 6 7	**Sand and Gravel**; brown.	SP			4.5	28					
				EOB at 7 feet.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature

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State of Wisconsin
Department of Natural Resources

Route To:
- Solid Waste
- Emergency Response
- Wastewater
- Haz. Waste
- Underground Tanks
- Water Resources
- Other

Soil Boring Log Information

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Dayton Thermal, Chrysler Corporation		**TB17**

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Carlo Environmental	**04/07/98**	**04/07/98**	**HSA**

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	**6.0** Inches

Boring Location		Local Grid Location (If applicable)
State Plane **N, E**	Lat ° ' "	☐ N ☐ E
1/4 of 1/4 of Section T N.R	Long ° ' "	Feet ☐ S Feet ☐ W

County	DNR County Code	Civil Town/City/ or Village
Montgomery		**Dayton**

Sample Number	Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
1	22	6, 3, 2, 4	1, 2	Silty Clay with sand, medium; brown.	CL, ML			13	5					
2	18	2, 6, 7, 7	3, 4					16	13					
				Sand, medium, with little gravel.	SP									
3	20	6, 14, 12, 12	5, 6	Sand, medium, with gravel; brown.				26	26					
4	18	7, 19, 26, 28	7, 8					6.2	45					
			9	EOB at 9 feet.										

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Signature

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State of Wisconsin
Department of Natural Resources

Route To:
- Solid Waste
- Emergency Response
- Wastewater
- Haz. Waste
- Underground Tanks
- Water Resources
- Other

Soil Boring Log Information

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Dayton Thermal, Chrysler Corporation		**TB18**

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Carlo Environmental	**04/07/98**	**04/07/98**	**HSA**

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	**6.0** Inches

Boring Location
State Plane **N, E** Lat ° ' "
1/4 of 1/4 of Section T N,R Long ° ' "

Local Grid Location (If applicable)
Feet ☐ N ☐ S Feet ☐ E ☐ W

County	DNR County Code	Civil Town/City/ or Village
Montgomery		**Dayton**

Sample Number	Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
			1		CL ML									
1	18	10 11 5 4	2	**Silty Clay** wih little sand and gravel; brown.				14.1	16					
2	24	2 2 4 5	3 4	**Silty Clay** with little gravel; brown.				15.5	6					
3	18	2 7 5 3	5 6	**Sand**, medium, with gravel; brown.	SP			7	12					
			7	EOB at 7 feet.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature

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State of Wisconsin
Department of Natural Resources

Route To:
- Solid Waste
- Emergency Response
- Wastewater
- Haz. Waste
- Underground Tanks
- Water Resources
- Other

Soil Boring Log Information

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Dayton Thermal, Chrysler Corporation		**TB19**

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Carlo Environmental	**04/07/98**	**04/07/98**	**HSA**

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	**6.0** Inches

Boring Location		Local Grid Location (If applicable)
State Plane **N, E**	Lat ° ' "	☐ N ☐ E
1/4 of 1/4 of Section T N.R	Long ° ' "	Feet ☐ S Feet ☐ W

County	DNR County Code	Civil Town/City/ or Village
Montgomery		**Dayton**

Sample Number	Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
1	24	5 4 3 4	1 2	**Silty Clay**, brown.	CL ML			9.0	7					
2	20	3 5 6 6	3 4	**Silty Sand** with some clay; brown.	SM			4.6	11					
3	18	5 3 4 7	5 6 7	**Sand, medium, and Gravel** with little silt; brown.	SP			2.7	7					
				EOB at 7 feet.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
	Leggette, Brashears & Graham, Inc. 6525 Grand Teton Plaza Madison, WI 53719 Tel: (608)833-5555, Fax: (608)833-5551

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State of Wisconsin
Department of Natural Resources

Route To:
- ☐ Solid Waste
- ☐ Emergency Response
- ☐ Wastewater
- ☐ Haz. Waste
- ☐ Underground Tanks
- ☐ Water Resources
- ☐ Other

Soil Boring Log Information

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Dayton Thermal, Chrysler Corporation		**TB20**

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Carlo Environmental	**04/07/98**	**04/07/98**	**HSA**

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	**6.0** Inches

Boring Location		Local Grid Location (If applicable)
State Plane N, E	Lat ° ' "	☐ N ☐ E
1/4 of 1/4 of Section T N.R	Long ° ' "	Feet ☐ S Feet ☐ W

County	DNR County Code	Civil Town/City/ or Village
Montgomery		**Dayton**

Sample Number	Sample Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
				Obstruction. Not sampled.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature

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State of Wisconsin
Department of Natural Resources

Route To:
- ☐ Solid Waste
- ☐ Emergency Response
- ☐ Wastewater
- ☐ Haz. Waste
- ☐ Underground Tanks
- ☐ Water Resources
- ☐ Other

Soil Boring Log Information

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Dayton Thermal, Chrysler Corporation		**AS**

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Carlo Environmental	**03/03/98**	**03/03/98**	**HSA**

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	**6.0** Inches

Boring Location		Local Grid Location (If applicable)
State Plane N, E	Lat ° ' "	☐ N ☐ E
1/4 of 1/4 of Section T N,R	Long ° ' "	Feet ☐ S Feet ☐ W

County	DNR County Code	Civil Town/City/ or Village
Montgomery		**Dayton**

Sample Number	Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
			1	**Silty Clay**; brown - black.	CL ML									
			2											
1	24	4 6 9 7	3 4	**Silty Clay**; little gravel; brown.				18	15					
2	20	4 6 10 12	5 6					8.6	16					
				Silt and Sand; little gravel; brown.	SM									
3	16	11 11 19/4"	7 8	**Sand**, medium; little gravel; silt; brown.	SP			11.3						
4	24	20 54 28 26	9 10	**Sand**, medium; some gravel; brown.				6.2	82					
5	16	10 11	11 12	**Sand and Gravel**; brown.				5.7	33					

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Boring Number **AS** Use only as an attachment to Form 4400-122.

Sample Number	Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
		22 25												
6	24	20 23	13	Sand, medium; little gravel; brown.				11.7	47					
		24 25	14											
7	20	13 16	15					24	45					
		29 36	16											
8	18	14 16	17					6.5	38					
		22 33	18											
9	22	19 36	19					12.4	57					
		21 28	20											
10	-	28 57	21					14.6	100					
		43 39	22											
11	22	-	23					14.8						
			24											
12	24	37 56	25	Sand, medium - coarse; little gravel; brown.				49	105					
		49 48	26											
13	8	12 16	27	Sand, medium - fine; little gravel; brown.				48	34					
		18 24	28											
14	20	10 22	29					20	53					
		31 23	30											
15	24	19 22	31					72	59					
			32											

Boring Number **AS** Use only as an attachment to Form 4400-122.

Sample Number	Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
		37 42												
16	20	7 5 5 16	33 34					60	20					
17	18	2 3 13 15	35 36	**Sand** medium - fine; brownish-grey.				45	16					
18	18	8 14 20 31	37 38					2.6	34					
19	16	10 13 14 24	39 40					1.4	27					
20	-	-	41 42					1.0						
				EOB at 42.5 feet.										

State of Wisconsin
Department of Natural Resources

Route To:
- ☐ Solid Waste
- ☐ Emergency Response
- ☐ Wastewater
- ☐ Haz. Waste
- ☐ Underground Tanks
- ☐ Water Resources
- ☐ Other

Soil Boring Log Information

Form 4400-122 7-91

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Dayton Thermal, Chrysler Corporation		**SVE1S**

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Carlo Environmental	**03/05/98**	**03/05/98**	**HSA**

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	**6.0** Inches

Boring Location
State Plane **N, E**
1/4 of 1/4 of Section T N,R

Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
Feet ☐ N ☐ S Feet ☐ E ☐ W

County	DNR County Code	Civil Town/City/ or Village
Montgomery		**Dayton**

Sample Number	Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
			1		CL ML									
1	20	3 3 5 4	2 3	**Silty Clay**, brown; little ash, black.				67	8					
2	15	3 3 3 5	4 5	**Silt Clay**, brown; little gravel; trace sand, tan.				30	6					
3	18	9 12 17 23	6 7					14	29					
4	20	15 26 24 23	8 9	**Silty Sand**, medium, with little gravel; brown.	SM			4.3	50					
5	22	15 22 24 19	10 11 12					6.2	46					

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature

Firm
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6525 Grand Teton Plaza Madison, WI 53719
Tel: (608)833-5555, Fax: (608)833-5551

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State of Wisconsin
Department of Natural Resources

Soil Boring Log Information Supplement
Form 4400-122A 7-91

Boring Number **SVE1S** Use only as an attachment to Form 4400-122.

Sample Number	Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	RQD/ Comments
6	18	19 30 37 34	13					9.2	67					
			14											
7	24	16 23 34 31	15	Sand, medium - coarse, with little gravel; brown.	SP			18	57					
			16											
8	22	19 40 34 37	17					8	74					
			18											
9	24	15 30 33 44	19					4.3	63					
			20											
10	24	22 56 46 57	21					6.1	102					
			22											
11	18			Sand and Gravel; brown.				7.2						
			23											
			24											
12	16	25 29 30 26	25					1.5	59					
			26											
13	-	5 10 17 15	27					1.5	27					
				EOB at 27.5 feet.										

GEOLOGIC LOG LEGGETTE, BRASHEARS & GRAHAM, INC. ST. PAUL, MINNESOTA	**OWNER:** Chrysler Corporation **WELL NO.:** SVE-1S/SVE-1D **PAGE:** 1 **OF** 1 **PAGES**
SITE LOCATION: Dayton Thermal Products Plant 1600 Webster Street Dayton, Ohio 45404	**SCREEN SIZE & TYPE:** 2-inch diameter Schedule 40 PVC **SLOT NO.:** 10 **SETTING:** 3-13 and 16.4 -26.4 feet below grade
DATE COMPLETED: March 5, 1998	**CASING SIZE & TYPE:** 2-inch diameter Schedule 40 PVC **SETTING:** 3 to 0 and 16.4 to 0 feet below grade
DRILLING COMPANY: Carlo Environmental Technology 44907 Trinity Drive Clinton Township Michigan, 48038	**SAND PACK SIZE & TYPE:** Global #5 and #7 Quartz Sand **SETTING:** 1.0 foot above screens (0.5 feet of each sand type)
DRILLING METHOD: Hollow-Stem Auger, 4 1/4-inch ID	
SAMPLING METHOD: Auger Cuttings	**SEAL TYPE:** 1.5 foot of $^3/_4$-inch Cetco bentonite chips above lower screen
OBSERVER: Kai Hansen	
REFERENCE POINT (RP): Floor Surface	**BACKFILL TYPE:** 1 foot of Global #5 Quartz Sand
ELEVATION OF RP:	**STATIC WATER LEVEL:** 24 feet below grade
SURFACE COMPLETION: Flush grade	**DEVELOPMENT METHOD:** NA
ELEVATION OF TOP OF PVC CASING:	**DURATION:** **VOLUME:**
REMARKS: Approximately 180 feet south and 10 feet west of northeast corner of Building 40B.	

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DEPTH FROM	FEET TO	DESCRIPTION	PID READINGS (ppm)
2	4	Silty clay, brown; little ash, black.	67
4	6	Silty clay; brown; little gravel; trace sand.	30
6	8	As above.	14
8	10	Silty sand, medium with little gravel; brown.	4.3
10	12	As above.	6.2
12	14	As above.	9.2
14	16	Sand, medium to coarse with little gravel; brown.	18
16	18	As above.	8
18	20	As above.	4.3
20	22	As above.	6.1
22	24	Sand and gravel, brown.	7.2
24	26	As above.	1.5
26	27.5	As above. End of boring at 27.5.	1.5

GEOLOGIC LOG LEGGETTE, BRASHEARS & GRAHAM, INC. ST. PAUL, MINNESOTA	**OWNER:** Chrysler Corporation **WELL NO.:** SVE-2S/SVE-2D **PAGE:** 1 **OF** 1 **PAGES**
SITE LOCATION: Dayton Thermal Products Plant 1600 Webster Street Dayton, Ohio 45404	**SCREEN SIZE & TYPE:** 2-inch diameter Schedule 40 PVC **SLOT NO.:** 10 **SETTING:** 2-12 and 15-25 feet below grade
DATE COMPLETED: June 2, 1998	**CASING SIZE & TYPE:** 2-inch diameter Schedule 40 PVC
DRILLING COMPANY: Carlo Environmental Technology 44907 Trinity Drive Clinton Township Michigan, 48038	**SETTING:** 2 to 0 and 15 to 0 feet below grade **SAND PACK SIZE & TYPE:** Global #5 Quartz Sand
DRILLING METHOD: Hollow-Stem Auger, 4 1/4-inch ID	**SETTING:** 0.5 foot above screens
SAMPLING METHOD: Auger Cuttings	**SEAL TYPE:** 0.5 foot of $^3/_4$-inch Cetco bentonite chips and 1.5 feet of Pure Gold grout above lower screen, and 0.5 foot of $^3/_4$-inch Cetco bentonite chips above upper screen
OBSERVER: Kai Hansen	
REFERENCE POINT (RP): Floor Surface	**BACKFILL TYPE:** 1 foot of Global #5 Quartz Sand
ELEVATION OF RP:	**STATIC WATER LEVEL:** 22 feet below grade
SURFACE COMPLETION: Flush grade	**DEVELOPMENT METHOD:** NA
ELEVATION OF TOP OF PVC CASING:	**DURATION:** **VOLUME:**
REMARKS: Approximately 45 feet south and 120 feet west of northeast corner of Building 40B.	

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DEPTH FROM	FEET TO	DESCRIPTION	PID READINGS (ppm)
0	0.6	Concrete.	--
0.6	10	Sand, with silt and gravel; brown.	15.2
10	25.5	Sand and gravel; tan.	4.8
	25.5	End of boring.	

GEOLOGIC LOG LEGGETTE, BRASHEARS & GRAHAM, INC. ST. PAUL, MINNESOTA	**OWNER:** Chrysler Corporation **WELL NO.:** SVE-3S/SVE-3D **PAGE:** 1 **OF** 1 **PAGES**
SITE LOCATION: Dayton Thermal Products Plant 1600 Webster Street Dayton, Ohio 45404	**SCREEN SIZE & TYPE:** 2-inch diameter Schedule 40 PVC **SLOT NO.:** 10 **SETTING:** 2-12 and 15-25 feet below grade
DATE COMPLETED: June 2, 1998	**CASING SIZE & TYPE:** 2-inch diameter Schedule 40 PVC **SETTING:** 2 to 0 and 15 to 0 feet below grade
DRILLING COMPANY: Carlo Environmental Technology 44907 Trinity Drive Clinton Township Michigan, 48038	**SAND PACK SIZE & TYPE:** Global #5 Quartz Sand **SETTING:** 0.5 foot above screens
DRILLING METHOD: Hollow-Stem Auger, 4 1/4-inch ID	
SAMPLING METHOD: Auger Cuttings	**SEAL TYPE:** 0.5 foot of $^3/_4$-inch Cetco bentonite chips and 1.5 feet of Pure Gold grout above lower screen, and 0.5 foot of $^3/_4$-inch Cetco bentonite chips above upper screen
OBSERVER: Kai Hansen	
REFERENCE POINT (RP): Floor Surface	**BACKFILL TYPE:** 1 foot of Global #5 Quartz Sand
ELEVATION OF RP:	**STATIC WATER LEVEL:** 22 feet below grade
SURFACE COMPLETION: Flush grade	**DEVELOPMENT METHOD:** NA
ELEVATION OF TOP OF PVC CASING:	**DURATION:** **VOLUME:**
REMARKS: Approximately 125 feet south and 120 feet west of northeast corner of Building 40B.	

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DEPTH FROM	FEET TO	DESCRIPTION	PID READINGS (ppm)
0	0.6	Concrete.	--
0.6	10	Silty sand; little clay with gravel; brown.	6.2
10	25.5	Sand and gravel.	16
	25.5	End of boring.	

GEOLOGIC LOG LEGGETTE, BRASHEARS & GRAHAM, INC. ST. PAUL, MINNESOTA	**OWNER:** Chrysler Corporation **WELL NO.:** SVE-4S/SVE-4D **PAGE:** 1 **OF** 1 **PAGES**
SITE LOCATION: Dayton Thermal Products Plant 1600 Webster Street Dayton, Ohio 45404	**SCREEN SIZE & TYPE:** 2-inch diameter Schedule 40 PVC **SLOT NO.:** 10 **SETTING:** 2-12 and 15-25 feet below grade
DATE COMPLETED: June 2, 1998	**CASING SIZE & TYPE:** 2-inch diameter Schedule 40 PVC **SETTING:** 2 to 0 and 15 to 0 feet below grade
DRILLING COMPANY: Carlo Environmental Technology 44907 Trinity Drive Clinton Township Michigan, 48038	**SAND PACK SIZE & TYPE:** Global #5 Quartz Sand **SETTING:** 0.5 foot above screens
DRILLING METHOD: Hollow-Stem Auger, 4 1/4-inch ID	
SAMPLING METHOD: Auger Cuttings	**SEAL TYPE:** 0.5 foot of $^3/_4$-inch Cetco bentonite chips and 1.5 feet of Pure Gold grout above lower screen, and 0.5 foot of $^3/_4$-inch Cetco bentonite chips above upper screen
OBSERVER: Kai Hansen	
REFERENCE POINT (RP): Floor Surface	**BACKFILL TYPE:** 1 foot of Global #5 Quartz Sand
ELEVATION OF RP:	**STATIC WATER LEVEL:** 22 feet below grade
SURFACE COMPLETION: Flush grade	**DEVELOPMENT METHOD:** NA
ELEVATION OF TOP OF PVC CASING:	**DURATION:** **VOLUME:**
REMARKS: Approximately 85 feet south and 60 feet west of northeast corner of Building 40B.	

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DEPTH FROM	FEET TO	DESCRIPTION	PID READINGS (ppm)
0	0.6	Concrete.	--
0.6	4	Silty clay with sand; little gravel; brown.	15.4
4	10	Sandy silt; little gravel; brown.	15.0
10	25.5	Sand and gravel.	8.7
	25.5	End of boring.	

GEOLOGIC LOG LEGGETTE, BRASHEARS & GRAHAM, INC. ST. PAUL, MINNESOTA	**OWNER:** Chrysler Corporation **WELL NO.:** SVE-5S/SVE-5D **PAGE:** 1 **OF** 1 **PAGES**
SITE LOCATION: Dayton Thermal Products Plant 1600 Webster Street Dayton, Ohio 45404	**SCREEN SIZE & TYPE:** 2-inch diameter Schedule 40 PVC **SLOT NO.:** 10 **SETTING:** 2-12 and 15-25 feet below grade
DATE COMPLETED: June 2, 1998	**CASING SIZE & TYPE:** 2-inch diameter Schedule 40 PVC **SETTING:** 2 to 0 and 15 to 0 feet below grade
DRILLING COMPANY: Carlo Environmental Technology 44907 Trinity Drive Clinton Township Michigan, 48038	**SAND PACK SIZE & TYPE:** Global #5 Quartz Sand
DRILLING METHOD: Hollow-Stem Auger, 4 1/4-inch ID	**SETTING:** 0.5 foot above screens
SAMPLING METHOD: Auger Cuttings	**SEAL TYPE:** 0.5 foot of $^3/_4$-inch Cetco bentonite chips and 1.5 feet of Pure Gold grout above lower screen, and 0.5 foot of $^3/_4$-inch Cetco bentonite chips above upper screen
OBSERVER: Kai Hansen	
REFERENCE POINT (RP): Floor Surface	**BACKFILL TYPE:** 1 foot of Global #5 Quartz Sand
ELEVATION OF RP:	**STATIC WATER LEVEL:** 22 feet below grade
SURFACE COMPLETION: Flush grade	**DEVELOPMENT METHOD:** NA
ELEVATION OF TOP OF PVC CASING:	**DURATION:** **VOLUME:**
REMARKS: Approximately 125 feet south and 60 feet west of northeast corner of Building 40B.	

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DEPTH FROM	FEET TO	DESCRIPTION	PID READINGS (ppm)
0	0.6	Concrete.	--
0.6	5	Silty sand, clayey silt and gravel.	13
5	12	Sand and gravel.	8.6
12	25.5	Gravel, various sizes.	12.4
	25.5	End of boring.	

GEOLOGIC LOG LEGGETTE, BRASHEARS & GRAHAM, INC. ST. PAUL, MINNESOTA	**OWNER:** Chrysler Corporation **WELL NO.:** SVE-6S/SVE-6D **PAGE:** 1 **OF** 1 **PAGES**
SITE LOCATION: Dayton Thermal Products Plant 1600 Webster Street Dayton, Ohio 45404	**SCREEN SIZE & TYPE:** 2-inch diameter Schedule 40 PVC **SLOT NO.:** 10 **SETTING:** 2-12 and 15-25 feet below grade
DATE COMPLETED: June 3, 1998	**CASING SIZE & TYPE:** 2-inch diameter Schedule 40 PVC **SETTING:** 2 to 0 and 15 to 0 feet below grade
DRILLING COMPANY: Carlo Environmental Technology 44907 Trinity Drive Clinton Township Michigan, 48038	**SAND PACK SIZE & TYPE:** Global #5 Quartz Sand
DRILLING METHOD: Hollow-Stem Auger, 4 1/4-inch ID	**SETTING:** 0.5 foot above screens
SAMPLING METHOD: Auger Cuttings	**SEAL TYPE:** 0.5 foot of $^3/_4$-inch Cetco bentonite chips and 1.5 feet of Pure Gold grout above lower screen, and 0.5 foot of $^3/_4$-inch Cetco bentonite chips above upper screen
OBSERVER: Kai Hansen	
REFERENCE POINT (RP): Floor Surface	**BACKFILL TYPE:** 1 foot of Global #5 Quartz Sand
ELEVATION OF RP:	**STATIC WATER LEVEL:** 22 feet below grade
SURFACE COMPLETION: Flush grade	**DEVELOPMENT METHOD:** NA
ELEVATION OF TOP OF PVC CASING:	**DURATION:** **VOLUME:**
REMARKS: Approximately 165 feet south and 60 feet west of northeast corner of Building 40B.	

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DEPTH FROM	FEET TO	DESCRIPTION	PID READINGS (ppm)
0	0.6	Concrete.	--
0.6	4	Black silt; coal ash?; black.	38.9
4	10	Sand, silt and gravel; black to tan.	16
10	25.5	Gravel, M to L.	12
	25.5	End of boring.	

GEOLOGIC LOG LEGGETTE, BRASHEARS & GRAHAM, INC. ST. PAUL, MINNESOTA	**OWNER:** Chrysler Corporation **WELL NO.:** SVE-7S/SVE-7D **PAGE:** 1 **OF** 1 **PAGES**
SITE LOCATION: Dayton Thermal Products Plant 1600 Webster Street Dayton, Ohio 45404	**SCREEN SIZE & TYPE:** 2-inch diameter Schedule 40 PVC **SLOT NO.:** 10 **SETTING:** 2-12 and 15-25 feet below grade
DATE COMPLETED: June 3, 1998	**CASING SIZE & TYPE:** 2-inch diameter Schedule 40 PVC **SETTING:** 2 to 0 and 15 to 0 feet below grade
DRILLING COMPANY: Carlo Environmental Technology 44907 Trinity Drive Clinton Township Michigan, 48038	**SAND PACK SIZE & TYPE:** Global #5 Quartz Sand **SETTING:** 0.5 foot above screens
DRILLING METHOD: Hollow-Stem Auger, 4 1/4-inch ID	
SAMPLING METHOD: Auger Cuttings	**SEAL TYPE:** 0.5 foot of $^3/_4$-inch Cetco bentonite chips and 1.5 feet of Pure Gold grout above lower screen, and 0.5 foot of $^3/_4$-inch Cetco bentonite chips above upper screen
OBSERVER: Kai Hansen	
REFERENCE POINT (RP): Floor Surface	**BACKFILL TYPE:** 1 foot of Global #5 Quartz Sand
ELEVATION OF RP:	**STATIC WATER LEVEL:** 22 feet below grade
SURFACE COMPLETION: Flush grade	**DEVELOPMENT METHOD:** NA
ELEVATION OF TOP OF PVC CASING:	**DURATION:** **VOLUME:**
REMARKS: Approximately 120 feet south and 5 feet west of northeast corner of Building 40B.	

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DEPTH FROM	FEET TO	DESCRIPTION	PID READINGS (ppm)
0	0.6	Concrete.	--
0.6	3	Silty topsoil; black.	30
3	6	Silty clay; brown to tan.	12
6	25.5	Gravel, various sizes.	8
	25.5	End of boring.	

GEOLOGIC LOG LEGGETTE, BRASHEARS & GRAHAM, INC. ST. PAUL, MINNESOTA	**OWNER:** Chrysler Corporation **WELL NO.:** SVE-8S/SVE-8D **PAGE:** 1 **OF** 1 **PAGES**
SITE LOCATION: Dayton Thermal Products Plant 1600 Webster Street Dayton, Ohio 45404	**SCREEN SIZE & TYPE:** 2-inch diameter Schedule 40 PVC **SLOT NO.:** 10 **SETTING:** 2-12 and 15-25 feet below grade
DATE COMPLETED: June 3, 1998	**CASING SIZE & TYPE:** 2-inch diameter Schedule 40 PVC **SETTING:** 2 to 0 and 15 to 0 feet below grade
DRILLING COMPANY: Carlo Environmental Technology 44907 Trinity Drive Clinton Township Michigan, 48038	**SAND PACK SIZE & TYPE:** Global #5 Quartz Sand
DRILLING METHOD: Hollow-Stem Auger, 4 1/4-inch ID	**SETTING:** 0.5 foot above screens
SAMPLING METHOD: Auger Cuttings	**SEAL TYPE:** 0.5 foot of $^3/_4$-inch Cetco bentonite chips and 1.5 feet of Pure Gold grout above lower screen, and 0.5 foot of $^3/_4$-inch Cetco bentonite chips above upper screen
OBSERVER: Kai Hansen	
REFERENCE POINT (RP): Floor Surface	**BACKFILL TYPE:** 1 foot of Global #5 Quartz Sand
ELEVATION OF RP:	**STATIC WATER LEVEL:** 22 feet below grade
SURFACE COMPLETION: Flush grade	**DEVELOPMENT METHOD:** NA
ELEVATION OF TOP OF PVC CASING:	**DURATION:** **VOLUME:**
REMARKS: Approximately 240 feet south and 120 feet west of northeast corner of Building 40B.	

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DEPTH FROM	FEET TO	DESCRIPTION	PID READINGS (ppm)
0	0.6	Concrete.	--
0.6	6	Silty clay; black to brown.	72
6	12	Sand and gravel; tan.	63
12	25.5	Gravel, various sizes.	16
	25.5	End of boring.	

GEOLOGIC LOG LEGGETTE, BRASHEARS & GRAHAM, INC. ST. PAUL, MINNESOTA	**OWNER:** Chrysler Corporation **WELL NO.:** SVE-9S/SVE-9D **PAGE:** 1 **OF** 1 **PAGES**
SITE LOCATION: Dayton Thermal Products Plant 1600 Webster Street Dayton, Ohio 45404	**SCREEN SIZE & TYPE:** 2-inch diameter Schedule 40 PVC **SLOT NO.:** 10 **SETTING:** 2-12 and 15-25 feet below grade
DATE COMPLETED: June 4, 1998	**CASING SIZE & TYPE:** 2-inch diameter Schedule 40 PVC **SETTING:** 2 to 0 and 15 to 0 feet below grade
DRILLING COMPANY: Carlo Environmental Technology 44907 Trinity Drive Clinton Township Michigan, 48038	**SAND PACK SIZE & TYPE:** Global #5 Quartz Sand
DRILLING METHOD: Hollow-Stem Auger, 4 1/4-inch ID	**SETTING:** 0.5 foot above screens
SAMPLING METHOD: Auger Cuttings	**SEAL TYPE:** 0.5 foot of $^3/_4$-inch Cetco bentonite chips and 1.5 feet of Pure Gold grout above lower screen, and 0.5 foot of $^3/_4$-inch Cetco bentonite chips above upper screen
OBSERVER: Kai Hansen	
REFERENCE POINT (RP): Floor Surface	**BACKFILL TYPE:** 1 foot of Global #5 Quartz Sand
ELEVATION OF RP:	**STATIC WATER LEVEL:** 22 feet below grade
SURFACE COMPLETION: Flush grade	**DEVELOPMENT METHOD:** NA
ELEVATION OF TOP OF PVC CASING:	**DURATION:** **VOLUME:**
REMARKS: Approximately 275 feet south and 10 feet west of northeast corner of Building 40B.	

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DEPTH FROM	FEET TO	DESCRIPTION	PID READINGS (ppm)
0	0.6	Concrete.	--
0.6	8	Silty clay; brown.	28
8	12	Clay and gravel; brown.	2.8
12	25.5	Gravel, various sizes.	6.2
	25.5	End of boring.	

GEOLOGIC LOG LEGGETTE, BRASHEARS & GRAHAM, INC. ST. PAUL, MINNESOTA	**OWNER:** Chrysler Corporation **WELL NO.:** SVE-10S/SVE-10D **PAGE:** 1 **OF** 1 **PAGES**
SITE LOCATION: Dayton Thermal Products Plant 1600 Webster Street Dayton, Ohio 45404	**SCREEN SIZE & TYPE:** 2-inch diameter Schedule 40 PVC **SLOT NO.:** 10 **SETTING:** 2-12 and 15-25 feet below grade
DATE COMPLETED: June 3, 1998	**CASING SIZE & TYPE:** 2-inch diameter Schedule 40 PVC **SETTING:** 2 to 0 and 15 to 0 feet below grade
DRILLING COMPANY: Carlo Environmental Technology 44907 Trinity Drive Clinton Township Michigan, 48038	**SAND PACK SIZE & TYPE:** Global #5 Quartz Sand
DRILLING METHOD: Hollow-Stem Auger, 4 1/4-inch ID	**SETTING:** 0.5 foot above screens
SAMPLING METHOD: Auger Cuttings	**SEAL TYPE:** 0.5 foot of $^3/_4$-inch Cetco bentonite chips and 1.5 feet of Pure Gold grout above lower screen, and 0.5 foot of $^3/_4$-inch Cetco bentonite chips above upper screen
OBSERVER: Kai Hansen	
REFERENCE POINT (RP): Floor Surface	**BACKFILL TYPE:** 1 foot of Global #5 Quartz Sand
ELEVATION OF RP:	**STATIC WATER LEVEL:** 22 feet below grade
SURFACE COMPLETION: Flush grade	**DEVELOPMENT METHOD:** NA
ELEVATION OF TOP OF PVC CASING:	**DURATION:** **VOLUME:**
REMARKS: Approximately 245 feet south and 60 feet west of northeast corner of Building 40B.	

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DEPTH FROM	FEET TO	DESCRIPTION	PID READINGS (ppm)
0	0.6	Concrete.	--
0.6	4.5	Silty clay; black.	8.4
4.5	9	Sand, medium with gravel; tan to brown.	2.6
9	13.5	Sand, fine to medium; brown.	3.2
13.5	25.5	Gravel, medium to coarse.	0.8
	25.5	End of boring.	

GEOLOGIC LOG LEGGETTE, BRASHEARS & GRAHAM, INC. ST. PAUL, MINNESOTA	**OWNER:** Chrysler Corporation **WELL NO.:** SVE-11S/SVE-11D **PAGE:** 1 **OF** 1 **PAGES**
SITE LOCATION: Dayton Thermal Products Plant 1600 Webster Street Dayton, Ohio 45404	**SCREEN SIZE & TYPE:** 2-inch diameter Schedule 40 PVC **SLOT NO.:** 10 **SETTING:** 2-12 and 15-25 feet below grade
DATE COMPLETED: June 4, 1998	**CASING SIZE & TYPE:** 2-inch diameter Schedule 40 PVC **SETTING:** 2 to 0 and 15 to 0 feet below grade
DRILLING COMPANY: Carlo Environmental Technology 44907 Trinity Drive Clinton Township Michigan, 48038	**SAND PACK SIZE & TYPE:** Global #5 Quartz Sand
DRILLING METHOD: Hollow-Stem Auger, 4 1/4-inch ID	**SETTING:** 0.5 foot above screens
SAMPLING METHOD: Auger Cuttings	**SEAL TYPE:** 0.5 foot of $^3/_4$-inch Cetco bentonite chips and 1.5 feet of Pure Gold grout above lower screen, and 0.5 foot of $^3/_4$-inch Cetco bentonite chips above upper screen
OBSERVER: Kai Hansen	
REFERENCE POINT (RP): Floor Surface	**BACKFILL TYPE:** 1 foot of Global #5 Quartz Sand
ELEVATION OF RP:	**STATIC WATER LEVEL:** 22 feet below grade
SURFACE COMPLETION: Flush grade	**DEVELOPMENT METHOD:** NA
ELEVATION OF TOP OF PVC CASING:	**DURATION:** **VOLUME:**
REMARKS: Approximately 320 feet south and 100 feet west of northeast corner of Building 40B.	

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DEPTH FROM	FEET TO	DESCRIPTION	PID READINGS (ppm)
0	0.6	Concrete.	--
0.6	5	Silty sand; black to brown.	15
5	25.5	Gravel, various sizes.	8.6
	25.5	End of boring.	

GEOLOGIC LOG LEGGETTE, BRASHEARS & GRAHAM, INC. ST. PAUL, MINNESOTA	**OWNER:** Chrysler Corporation **WELL NO.:** SVE-12S/SVE-12D **PAGE:** 1 **OF** 1 **PAGES**
SITE LOCATION: Dayton Thermal Products Plant 1600 Webster Street Dayton, Ohio 45404	**SCREEN SIZE & TYPE:** 2-inch diameter Schedule 40 PVC **SLOT NO.:** 10 **SETTING:** 2-12 and 15-25 feet below grade
DATE COMPLETED: June 4, 1998	**CASING SIZE & TYPE:** 2-inch diameter Schedule 40 PVC **SETTING:** 2 to 0 and 15 to 0 feet below grade
DRILLING COMPANY: Carlo Environmental Technology 44907 Trinity Drive Clinton Township Michigan, 48038	**SAND PACK SIZE & TYPE:** Global #5 Quartz Sand
DRILLING METHOD: Hollow-Stem Auger, 4 1/4-inch ID	**SETTING:** 0.5 foot above screens
SAMPLING METHOD: Auger Cuttings	**SEAL TYPE:** 0.5 foot of $^3/_4$-inch Cetco bentonite chips and 1.5 feet of Pure Gold grout above lower screen, and 0.5 foot of $^3/_4$-inch Cetco bentonite chips above upper screen
OBSERVER: Kai Hansen	
REFERENCE POINT (RP): Floor Surface	**BACKFILL TYPE:** 1 foot of Global #5 Quartz Sand
ELEVATION OF RP:	**STATIC WATER LEVEL:** 22 feet below grade
SURFACE COMPLETION: Flush grade	**DEVELOPMENT METHOD:** NA
ELEVATION OF TOP OF PVC CASING:	**DURATION:** **VOLUME:**
REMARKS: Approximately 35 feet south and 10 feet west of northeast corner of Building 40B.	

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DEPTH FROM	FEET TO	DESCRIPTION	PID READINGS (ppm)
0	0.6	Concrete.	--
0.6	5	Silty clay; brown.	36
5	9	Silty clay with sand; brown.	12.4
9	25.5	Gravel, various sizes.	10.6
	25.5	End of boring.	

GEOLOGIC LOG LEGGETTE, BRASHEARS & GRAHAM, INC. ST. PAUL, MINNESOTA	**OWNER:** Chrysler Corporation **WELL NO.:** ASMP-1 (air sparge monitoring point) **PAGE:** 1 **OF** 1 **PAGES**
SITE LOCATION: Dayton Thermal Products Plant 1600 Webster Street Dayton, Ohio 45404	**SCREEN SIZE & TYPE:** three 6-inch long 1-inch diameter stainless steel screens **SLOT NO.:** wire mesh **SETTINGS:** 26.5-27, 30.5-31, 34.5-35
DATE COMPLETED: March 10, 1998	**CASING SIZE & TYPE:** 3/16-inch Permaflex tubing
DRILLING COMPANY: Carlo Environmental Technology 44907 Trinity Drive Clinton Township Michigan, 48038	**SETTING:** top of screens to grade **SAND PACK SIZE & TYPE:** Global #7 Quartz sand
DRILLING METHOD: Hollow-Stem Auger, 4 1/4-inch ID	**SETTING:** See construction diagram
SAMPLING METHOD: Cuttings	**SEAL TYPE:** Hydrated bentonite
OBSERVER: Kai Hansen	
REFERENCE POINT (RP): Floor Surface	**BACKFILL TYPE:** Global #7 Quartz sand
ELEVATION OF RP:	**STATIC WATER LEVEL:** ~24 feet below grade
SURFACE COMPLETION: Flush grade	**DEVELOPMENT METHOD:** NA
ELEVATION OF TOP OF PVC CASING:	**DURATION:** **VOLUME:**
REMARKS: Building 40B pilot test area.	

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DEPTH FEET FROM	TO	DESCRIPTION	PID READINGS (ppm)
1	6	Silty clay; brown.	8.4
6	10	Silty clay with sand and gravel; brown.	5.4
10	36	Sand and gravel; various degrees	3.8
	36	End of boring.	

GEOLOGIC LOG LEGGETTE, BRASHEARS & GRAHAM, INC. ST. PAUL, MINNESOTA	**OWNER:** Chrysler Corporation **WELL NO.:** ASMP-2 (air sparge monitoring point) **PAGE:** 1 **OF** 1 **PAGES**
SITE LOCATION: Dayton Thermal Products Plant 1600 Webster Street Dayton, Ohio 45404	**SCREEN SIZE & TYPE:** three 6-inch long 1-inch diameter stainless steel screens **SLOT NO.:** wire mesh **SETTINGS:** 26.5-27, 30.5-31, 34.5-35
DATE COMPLETED: March 10, 1998	**CASING SIZE & TYPE:** 3/16-inch Permaflex tubing **SETTING:** top of screens to grade
DRILLING COMPANY: Carlo Environmental Technology 44907 Trinity Drive Clinton Township Michigan, 48038	**SAND PACK SIZE & TYPE:** Global #7 Quartz sand **SETTING:** See construction diagram
DRILLING METHOD: Hollow-Stem Auger, 4 1\4-inch ID	
SAMPLING METHOD: Cuttings	**SEAL TYPE:** Hydrated bentonite
OBSERVER: Kai Hansen	
REFERENCE POINT (RP): Floor Surface	**BACKFILL TYPE:** Global #7 Quartz sand
ELEVATION OF RP:	**STATIC WATER LEVEL:** ~24 feet below grade
SURFACE COMPLETION: Flush grade	**DEVELOPMENT METHOD:** NA
ELEVATION OF TOP OF PVC CASING:	**DURATION:** **VOLUME:**
REMARKS: Building 40B pilot test area.	

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DEPTH FROM	FEET TO	DESCRIPTION	PID READINGS (ppm)
1	7	Silty clay with little sand; brown.	5.8
7	36	Sand and gravel; various degrees.	6.4
	36	End of boring.	5.1

GEOLOGIC LOG LEGGETTE, BRASHEARS & GRAHAM, INC. ST. PAUL, MINNESOTA	**OWNER:** Chrysler Corporation **WELL NO.:** ASMP-3 (air sparge monitoring point) **PAGE:** 1 **OF** 1 **PAGES**
SITE LOCATION: Dayton Thermal Products Plant 1600 Webster Street Dayton, Ohio 45404	**SCREEN SIZE & TYPE:** four 6-inch long 1-inch diameter stainless steel screens **SLOT NO.:** wire mesh **SETTINGS:** 20.5-21, 26.5-27, 29.5-30, 32.5-33
DATE COMPLETED: March 11, 1998	**CASING SIZE & TYPE:** 3/16-inch Permaflex tubing **SETTING:** top of screens to grade
DRILLING COMPANY: Carlo Environmental Technology 44907 Trinity Drive Clinton Township Michigan, 48038	**SAND PACK SIZE & TYPE:** Global #7 Quartz sand
DRILLING METHOD: Hollow-Stem Auger, 4 1/4-inch ID	**SETTING:** See construction diagram
SAMPLING METHOD: Cuttings **OBSERVER:** Kai Hansen	**SEAL TYPE:** Hydrated bentonite
REFERENCE POINT (RP): Floor Surface	**BACKFILL TYPE:** Global #7 Quartz sand
ELEVATION OF RP:	**STATIC WATER LEVEL:** ~24 feet below grade
SURFACE COMPLETION: Flush grade	**DEVELOPMENT METHOD:** NA
ELEVATION OF TOP OF PVC CASING:	**DURATION:** **VOLUME:**
REMARKS: Building 40B pilot test area.	

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DEPTH FROM	FEET TO	DESCRIPTION	PID READINGS (ppm)
1	6	Silty clay; brown.	1.2
6	12	Sand with silt and gravel; brown.	4.3
12	36	Sand and gravel: various degrees.	4.6
	36	End of boring.	

GEOLOGIC LOG LEGGETTE, BRASHEARS & GRAHAM, INC. ST. PAUL, MINNESOTA	**OWNER:** Chrysler Corporation **WELL NO.:** ASMP-4 (air sparge monitoring point) **PAGE:** 1 **OF** 1 **PAGES**
SITE LOCATION: Dayton Thermal Products Plant 1600 Webster Street Dayton, Ohio 45404	**SCREEN SIZE & TYPE:** three 6-inch long 1-inch diameter stainless steel screens **SLOT NO.:** wire mesh **SETTINGS:** 26.5-27, 29.5-30, 32.5-33
DATE COMPLETED: March 9, 1998	**CASING SIZE & TYPE:** 3/16-inch Permaflex tubing
DRILLING COMPANY: Carlo Environmental Technology 44907 Trinity Drive Clinton Township Michigan, 48038	**SETTING:** top of screens to grade **SAND PACK SIZE & TYPE:** Global #7 Quartz sand
DRILLING METHOD: Hollow-Stem Auger, 4 1/4-inch ID	**SETTING:** See construction diagram
SAMPLING METHOD: Split Spoons and Cuttings	**SEAL TYPE:** Hydrated bentonite
OBSERVER: Kai Hansen	
REFERENCE POINT (RP): Floor Surface	**BACKFILL TYPE:** Global #7 Quartz sand
ELEVATION OF RP:	**STATIC WATER LEVEL:** ~23 to 24 feet below grade
SURFACE COMPLETION: Flush grade	**DEVELOPMENT METHOD:** NA
ELEVATION OF TOP OF PVC CASING:	**DURATION:** **VOLUME:**
REMARKS: Building 40B pilot test area.	

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DEPTH FROM	FEET TO	DESCRIPTION	PID READINGS (ppm)
1	3	Silty clay; little gravel; brown.	2.7
3	5	Silty clay to 4.5'; little gravel; brown	5.2
5	7	Silty clay to 6.5'; then sand and gravel; brown.	11.8
7	9	Sand, medium with gravel; brown to grey.	6.5
9	11	Sand, fine to medium with gravel; brown.	7.1
11	25	Sand and gravel.	3.8
25	34	Sand and fine gravel; various degrees.	3.4
	34	End of boring.	

GEOLOGIC LOG LEGGETTE, BRASHEARS & GRAHAM, INC. ST. PAUL, MINNESOTA	OWNER: Chrysler Corporation WELL NO.: ASMP-5 (air sparge monitoring point) PAGE: 1 OF 1 PAGES
SITE LOCATION: Dayton Thermal Products Plant 1600 Webster Street Dayton, Ohio 45404	SCREEN SIZE & TYPE: four 6-inch long 1-inch diameter stainless steel screens SLOT NO.: wire mesh SETTINGS: 20.5-21, 26.5-27, 29.5-30, 32.5-33
DATE COMPLETED: March 9, 1998	CASING SIZE & TYPE: 3/16-inch Permaflex tubing SETTING: top of screens to grade
DRILLING COMPANY: Carlo Environmental Technology 44907 Trinity Drive Clinton Township Michigan, 48038	SAND PACK SIZE & TYPE: Global #7 Quartz sand
DRILLING METHOD: Hollow-Stem Auger, 4 1/4-inch ID	SETTING: See construction diagram
SAMPLING METHOD: Split Spoons and Cuttings	SEAL TYPE: Hydrated bentonite
OBSERVER: Kai Hansen	
REFERENCE POINT (RP): Floor Surface	BACKFILL TYPE: Global #7 Quartz sand
ELEVATION OF RP:	STATIC WATER LEVEL: ~24 feet below grade
SURFACE COMPLETION: Flush grade	DEVELOPMENT METHOD: NA
ELEVATION OF TOP OF PVC CASING:	DURATION: VOLUME:
REMARKS: Building 40B pilot test area.	

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DEPTH FEET FROM	TO	DESCRIPTION	PID READINGS (ppm)
1	3	Silty clay; brown; some black ash material.	14
3	5	Silty clay; brown.	7
5	7	Silty clay; brown.	8.1
7	9	Silty clay with sand, medium to coarse and gravel.	8.2
9	34	Sand and gravel; various degrees.	7.4
	34	End of boring.	

GEOLOGIC LOG LEGGETTE, BRASHEARS & GRAHAM, INC. ST. PAUL, MINNESOTA	**OWNER:** Chrysler Corporation **WELL NO.:** VMP-1 (soil vapor monitoring point) **PAGE:** 1 **OF** 1 **PAGES**
SITE LOCATION: Dayton Thermal Products Plant 1600 Webster Street Dayton, Ohio 45404	**SCREEN SIZE & TYPE:** one 6-inch long 1-inch diameter stainless steel screen **SLOT NO.:** wire mesh **SETTING:** 9.5-10 feet below grade
DATE COMPLETED: March 6, 1998	**CASING SIZE & TYPE:** 3/16-inch Permaflex tubing **SETTING:** 9.5 to 0 feet below grade
DRILLING COMPANY: Carlo Environmental Technology 44907 Trinity Drive Clinton Township Michigan, 48038	**SAND PACK SIZE & TYPE:** Global #7 Quartz sand **SETTING:** 10.5 to 8.5 feet below grade
DRILLING METHOD: Hollow-Stem Auger, 4 1/4-inch ID	
SAMPLING METHOD: Split Spoon	**SEAL TYPE:** 2 feet of hydrated bentonite
OBSERVER: Kai Hansen	
REFERENCE POINT (RP): Floor Surface	**BACKFILL TYPE:** Concrete
ELEVATION OF RP:	**STATIC WATER LEVEL:**
SURFACE COMPLETION: Flush grade	**DEVELOPMENT METHOD:** NA
ELEVATION OF TOP OF PVC CASING:	**DURATION:** **VOLUME:**
REMARKS: Building 40B pilot test area.	

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DEPTH FROM	FEET TO	DESCRIPTION	PID READINGS (ppm)
1	3	Silty clay; brown; some black ash material.	26
3	5	Silty clay with little sand and gravel; brown.	6.2
5	7	Silty clay to 6.7'; silty sand with gravel; brown.	6.8
7	9	Silty sand, medium to coarse with gravel; brown.	14.5
9	10.5	Sand with gravel; brown.	10
	10.5	End of boring.	

GEOLOGIC LOG LEGGETTE, BRASHEARS & GRAHAM, INC. ST. PAUL, MINNESOTA	**OWNER:** Chrysler Corporation **WELL NO.:** VMP-2 (soil vapor monitoring point) **PAGE:** 1 **OF** 1 **PAGES**
SITE LOCATION: Dayton Thermal Products Plant 1600 Webster Street Dayton, Ohio 45404	**SCREEN SIZE & TYPE:** one 6-inch long 1-inch diameter stainless steel screen **SLOT NO.:** wire mesh **SETTING:** 9.5-10 feet below grade
DATE COMPLETED: March 6, 1998	**CASING SIZE & TYPE:** 3/16-inch Permaflex tubing **SETTING:** 9.5 to 0 feet below grade
DRILLING COMPANY: Carlo Environmental Technology 44907 Trinity Drive Clinton Township Michigan, 48038	**SAND PACK SIZE & TYPE:** Global #7 Quartz sand **SETTING:** 11 to 8.5 feet below grade
DRILLING METHOD: Hollow-Stem Auger, 4 1/4-inch ID	
SAMPLING METHOD: Split Spoon	**SEAL TYPE:** 2 feet of hydrated bentonite
OBSERVER: Kai Hansen	
REFERENCE POINT (RP): Floor Surface	**BACKFILL TYPE:** Concrete
ELEVATION OF RP:	**STATIC WATER LEVEL:**
SURFACE COMPLETION: Flush grade	**DEVELOPMENT METHOD:** NA
ELEVATION OF TOP OF PVC CASING:	**DURATION:** **VOLUME:**
REMARKS: Building 40B pilot test area.	

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DEPTH FROM	FEET TO	DESCRIPTION	PID READINGS (ppm)
1	3	Silty clay; brown; some black ash material.	10.1
3	5	Silty clay with little gravel; brown.	7.2
5	7	As above.	2.9
7	9	Silty sand with little gravel; brown.	3.2
9	11	As above.	2.2
	11	End of boring.	

GEOLOGIC LOG LEGGETTE, BRASHEARS & GRAHAM, INC. ST. PAUL, MINNESOTA	**OWNER:** Chrysler Corporation **WELL NO.:** VMP-3 (soil vapor monitoring point) **PAGE:** 1 **OF** 1 **PAGES**
SITE LOCATION: Dayton Thermal Products Plant 1600 Webster Street Dayton, Ohio 45404	**SCREEN SIZE & TYPE:** one 6-inch long 1-inch diameter stainless steel screen **SLOT NO.:** wire mesh **SETTING:** ~9.3-9.8 feet below grade
DATE COMPLETED: March 6, 1998	**CASING SIZE & TYPE:** 3/16-inch Permaflex tubing **SETTING:** 9.3 to 0 feet below grade
DRILLING COMPANY: Carlo Environmental Technology 44907 Trinity Drive Clinton Township Michigan, 48038	**SAND PACK SIZE & TYPE:** Global #7 Quartz sand **SETTING:** ~9.8 to 8.5 feet below grade
DRILLING METHOD: Hollow-Stem Auger, 4 1/4-inch ID	
SAMPLING METHOD: Split Spoon	**SEAL TYPE:** 2 feet of hydrated bentonite
OBSERVER: Kai Hansen	
REFERENCE POINT (RP): Floor Surface	**BACKFILL TYPE:** Concrete
ELEVATION OF RP:	**STATIC WATER LEVEL:**
SURFACE COMPLETION: Flush grade	**DEVELOPMENT METHOD:** NA
ELEVATION OF TOP OF PVC CASING:	**DURATION:** **VOLUME:**
REMARKS: Building 40B pilot test area.	

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DEPTH FROM	FEET TO	DESCRIPTION	PID READINGS (ppm)
1	3	Silty clay; brown.	1.8
3	5	Silty clay with medium sand; brown.	0.9
5	7	Silty clay with medium sand and little gravel.	3.3
7	9	As above.	3.8
9	9.8	Cobble at 9.8.	4.6
	9.8	End of boring.	

GEOLOGIC LOG LEGGETTE, BRASHEARS & GRAHAM, INC. ST. PAUL, MINNESOTA	**OWNER:** Chrysler Corporation **WELL NO.:** VMP-4 (soil vapor monitoring point) **PAGE:** 1 **OF** 1 **PAGES**
SITE LOCATION: Dayton Thermal Products Plant 1600 Webster Street Dayton, Ohio 45404	**SCREEN SIZE & TYPE:** one 6-inch long 1-inch diameter stainless steel screen **SLOT NO.:** wire mesh **SETTING:** 9.5-10 feet below grade
DATE COMPLETED: March 11, 1998	**CASING SIZE & TYPE:** 3/16-inch Permaflex tubing **SETTING:** 9.5 to 0 feet below grade
DRILLING COMPANY: Carlo Environmental Technology 44907 Trinity Drive Clinton Township Michigan, 48038	**SAND PACK SIZE & TYPE:** Global #7 Quartz sand **SETTING:** 10 to 8.5 feet below grade
DRILLING METHOD: Hollow-Stem Auger, 4 1/4-inch ID	
SAMPLING METHOD: Split Spoon	**SEAL TYPE:** 2 feet of hydrated bentonite
OBSERVER: Kai Hansen	
REFERENCE POINT (RP): Floor Surface	**BACKFILL TYPE:** Concrete
ELEVATION OF RP:	**STATIC WATER LEVEL:**
SURFACE COMPLETION: Flush grade	**DEVELOPMENT METHOD:** NA
ELEVATION OF TOP OF PVC CASING:	**DURATION:** **VOLUME:**
REMARKS: Building 40B pilot test area.	

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DEPTH FROM	FEET TO	DESCRIPTION	PID READINGS (ppm)
1	7	Silty clay with little medium sand; brown.	--
7	10	Sand and gravel; various degrees.	--
	10	End of boring.	

GEOLOGIC LOG LEGGETTE, BRASHEARS & GRAHAM, INC. ST. PAUL, MINNESOTA	**OWNER:** Chrysler Corporation **WELL NO.:** VMP-5 (soil vapor monitoring point) **PAGE:** 1 **OF** 1 **PAGES**
SITE LOCATION: Dayton Thermal Products Plant 1600 Webster Street Dayton, Ohio 45404	**SCREEN SIZE & TYPE:** one 6-inch long 1-inch diameter stainless steel screen **SLOT NO.:** wire mesh **SETTING:** 9.5-10 feet below grade
DATE COMPLETED: March 6, 1998	**CASING SIZE & TYPE:** 3/16-inch Permaflex tubing **SETTING:** 9.5 to 0 feet below grade
DRILLING COMPANY: Carlo Environmental Technology 44907 Trinity Drive Clinton Township Michigan, 48038	**SAND PACK SIZE & TYPE:** Global #7 Quartz sand **SETTING:** 10.3 to 8.5 feet below grade
DRILLING METHOD: Hollow-Stem Auger, 4 1/4-inch ID	
SAMPLING METHOD: Split Spoon	**SEAL TYPE:** 2 feet of hydrated bentonite
OBSERVER: Kai Hansen	
REFERENCE POINT (RP): Floor Surface	**BACKFILL TYPE:** Concrete
ELEVATION OF RP:	**STATIC WATER LEVEL:**
SURFACE COMPLETION: Flush grade	**DEVELOPMENT METHOD:** NA
ELEVATION OF TOP OF PVC CASING:	**DURATION:** **VOLUME:**
REMARKS: Building 40B pilot test area.	

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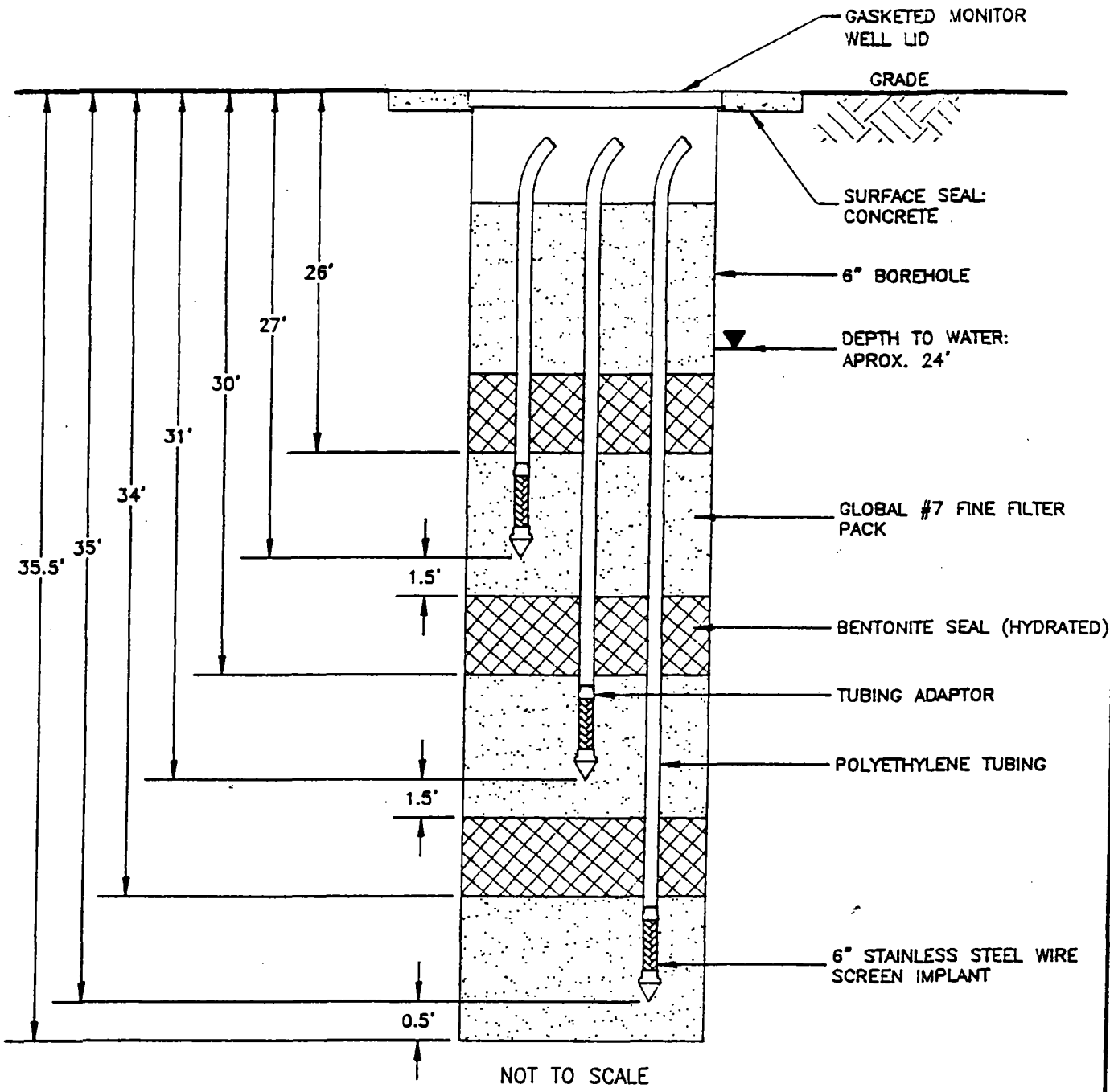
DEPTH FEET FROM	TO	DESCRIPTION	PID READINGS (ppm)
1	3	Silty clay; brown.	2.1
3	5	Silty clay with little gravel; brown.	1.8
5	7	Silty clay with sand and gravel; brown.	12.4
7	9	As above.	12.8
9	10.3	As above.	9.7
	10.3	End of boring.	



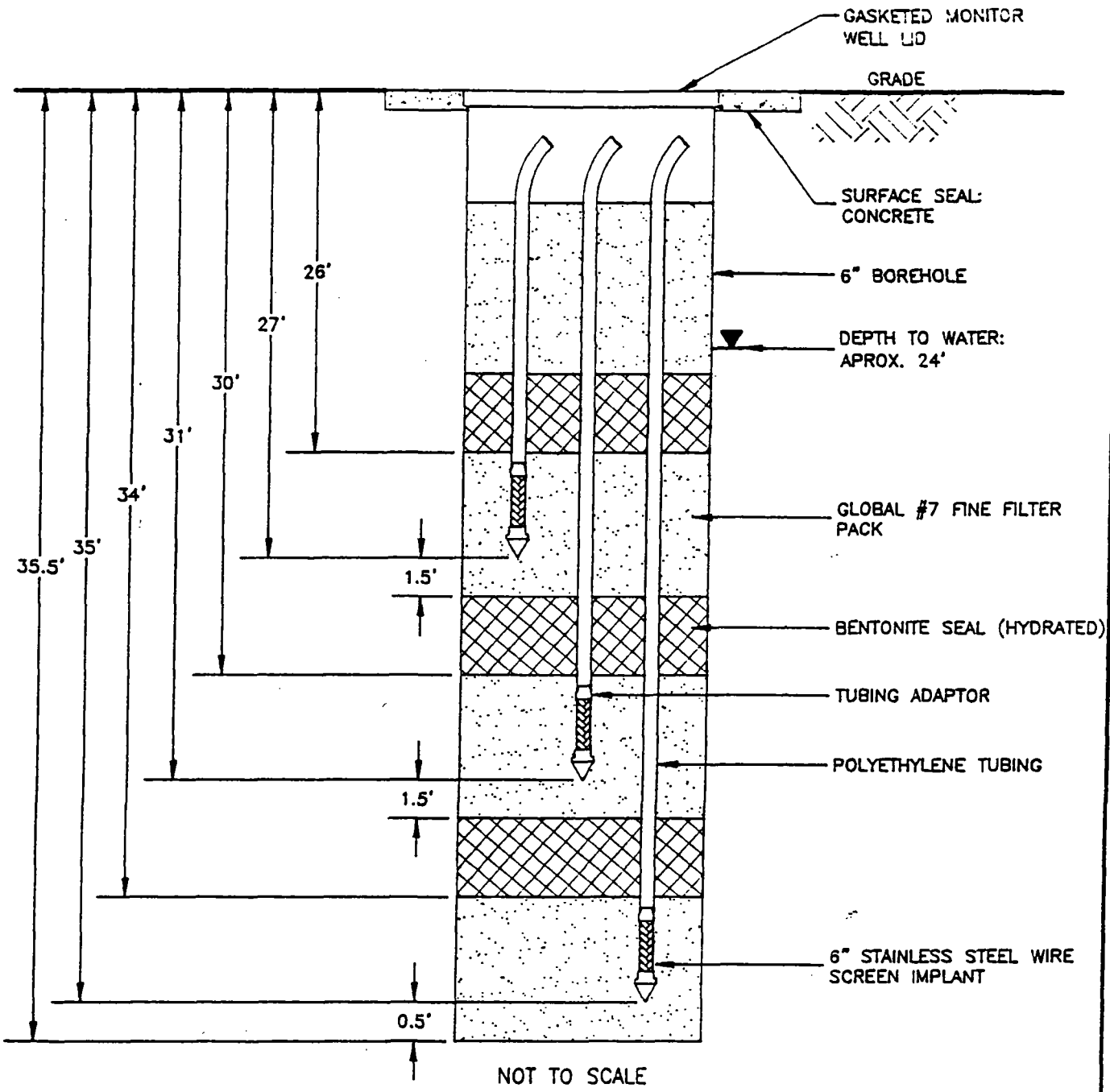
DAYTON THERMAL PRODUCTS PLANT

DAYTON, OHIO

ASMP-1 INSTALLATION (MARCH 10, 1998)

DATE	REVISED	PREPARED BY:
		LEGGETTE, BRASHEARS & GRAHAM, INC.
		Professional Ground-Water and Environmental Services
		Northpark Corporate Center
		1210 W. County Road E, Suite 700
		St. Paul, MN 55112
		(612) 490-1405

FILE:	3CHDA04F.DWG	DATE: JUNE 1998	FIGURE: 8

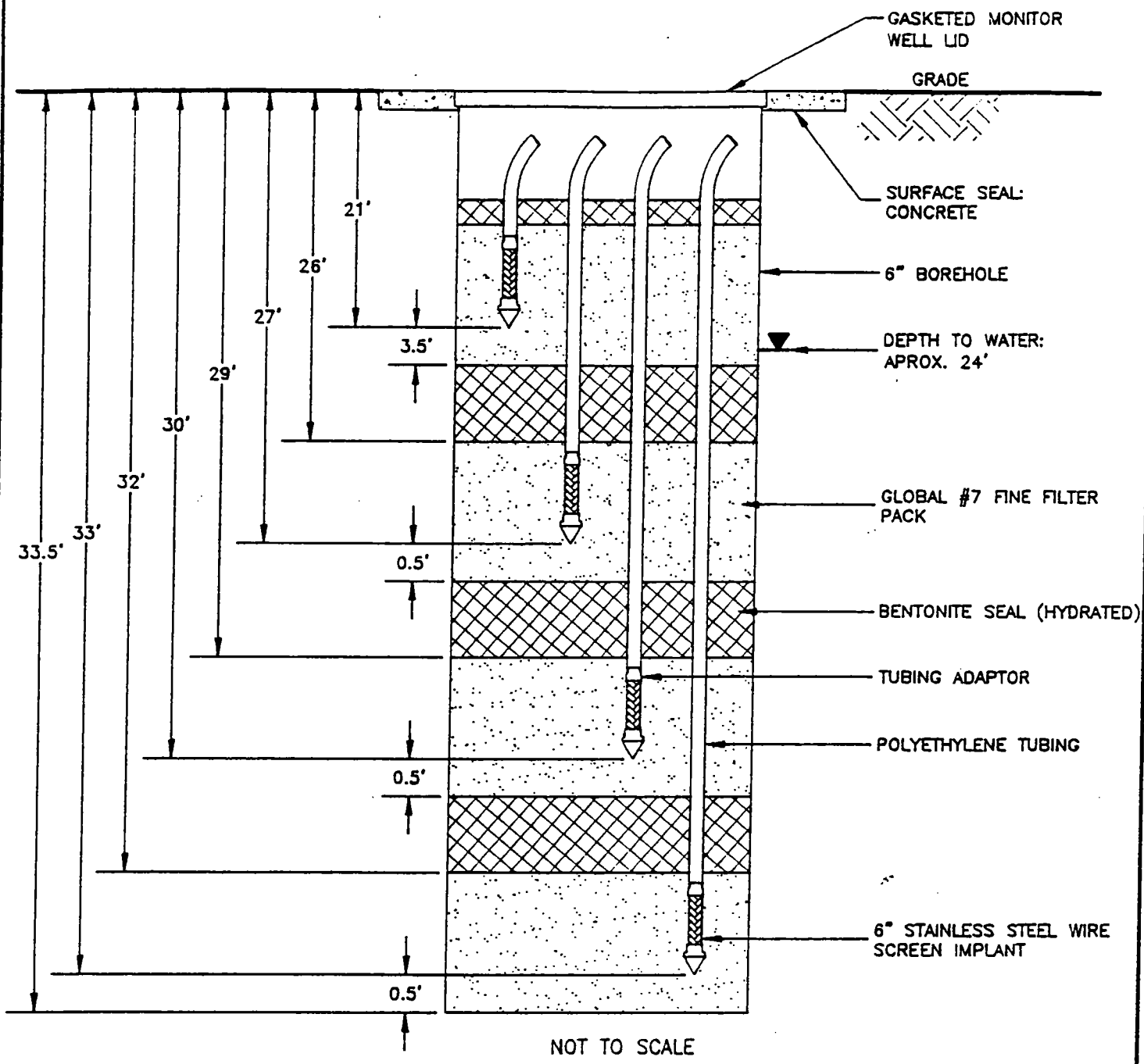


DAYTON THERMAL PRODUCTS PLANT
DAYTON, OHIO

ASMP-2 INSTALLATION (MARCH 10, 1998)

DATE	REVISED	PREPARED BY: LEGGETTE, BRASHEARS & GRAHAM, INC. Professional Ground-Water and Environmental Services Northpark Corporate Center 1210 W. County Road E, Suite 700 St. Paul, MN 55112 (612) 490-1405

FILE:	3CHDA04F.DWG	DATE:	JUNE 1998	FIGURE:	8

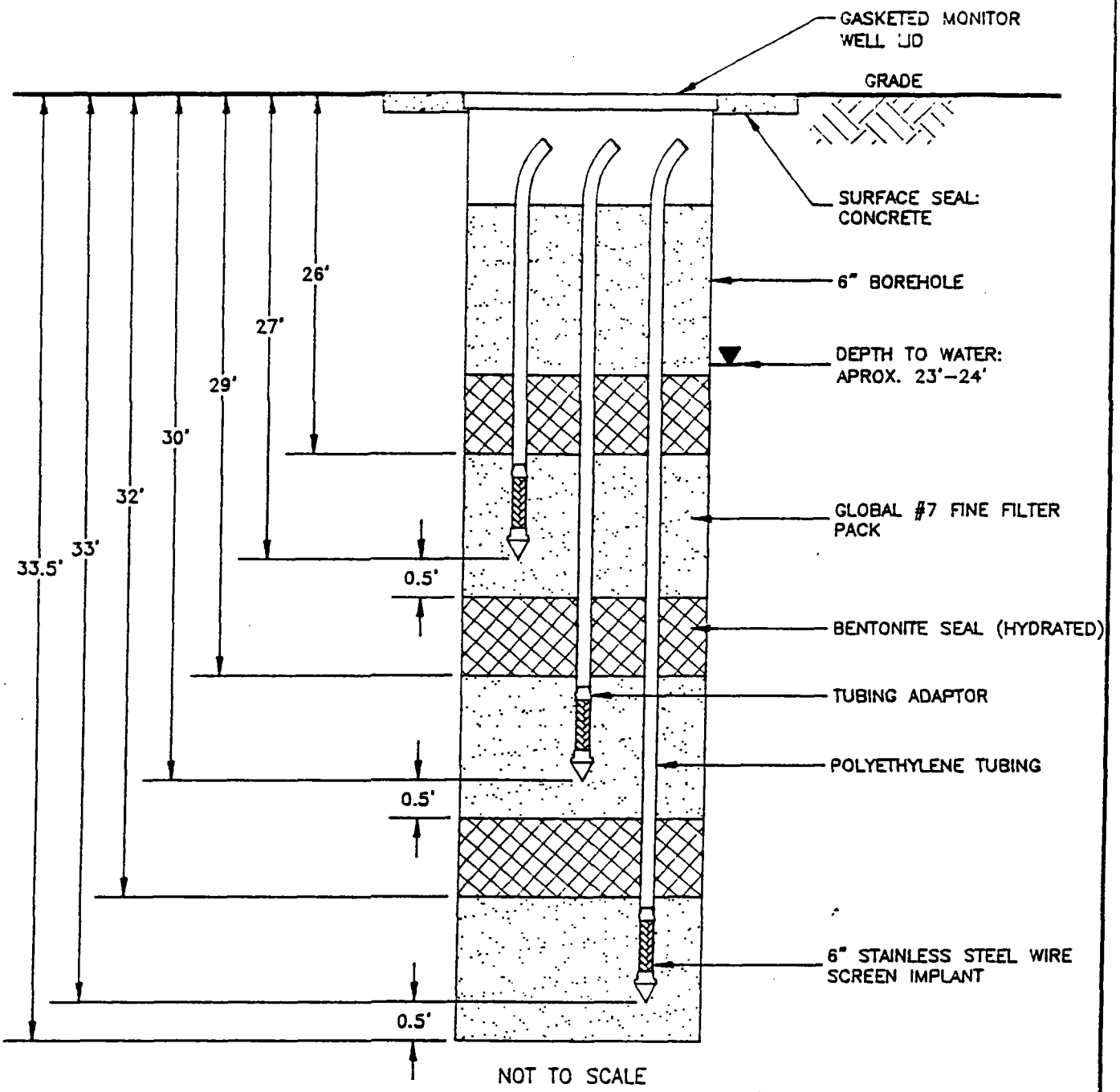


DAYTON THERMAL PRODUCTS PLANT
DAYTON, OHIO

ASMP-3 INSTALLATION (MARCH 11, 1998)

DATE	REVISED	PREPARED BY:
		LEGGETTE, BRASHEARS & GRAHAM, INC.
		Professional Ground-Water and Environmental Services
		Northpark Corporate Center
		1210 W. County Road E, Suite 700
		St. Paul, MN 55112
		(612) 490-1405

FILE:	3CHDA04F.DWG	DATE: JUNE 1998	FIGURE: 8

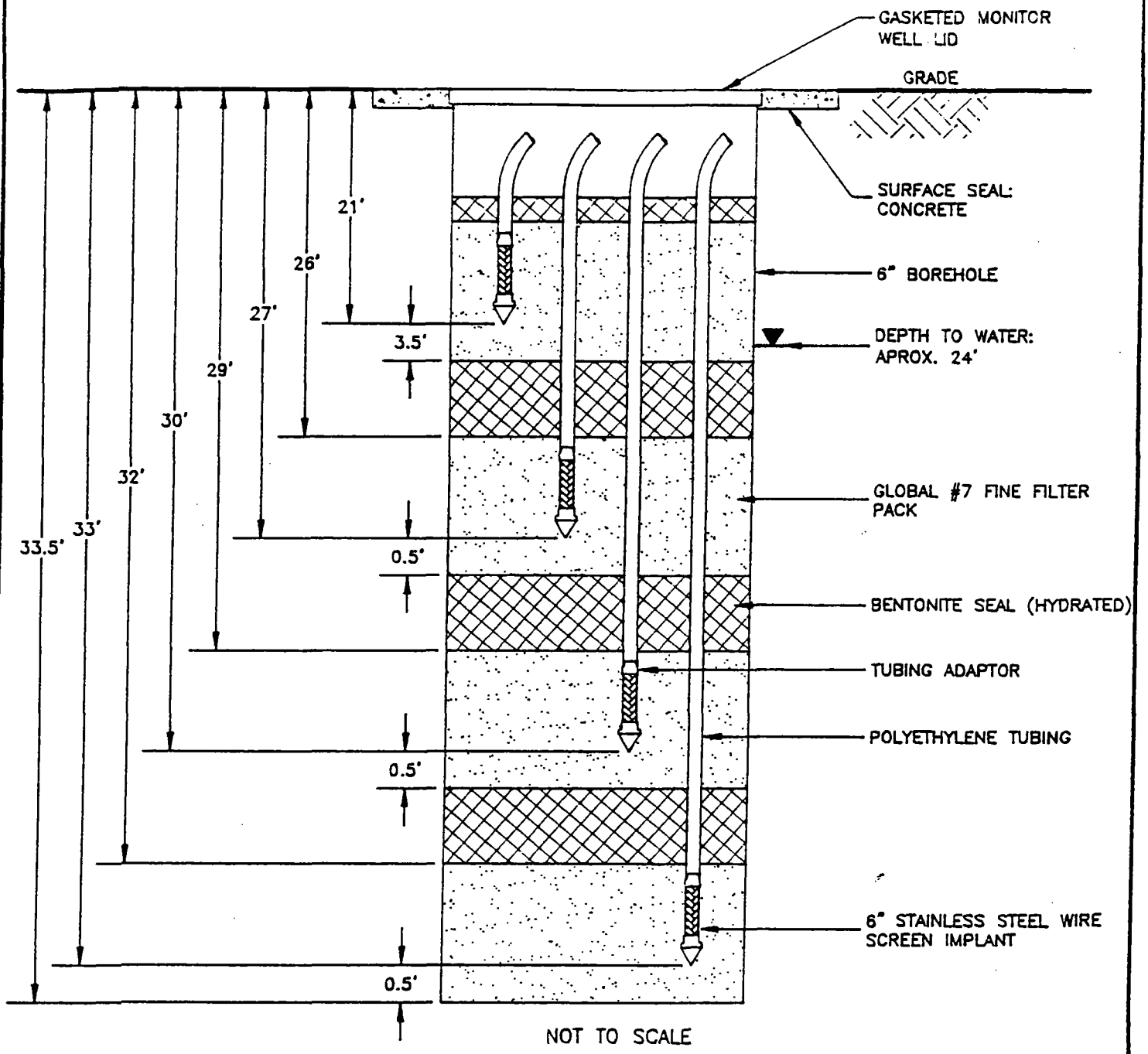


DAYTON THERMAL PRODUCTS PLANT
DAYTON, OHIO

ASMP-4 INSTALLATION (MARCH 9, 1998)

DATE	REVISED	PREPARED BY:
		LEGGETTE, BRASHEARS & GRAHAM, INC.
		Professional Ground-Water and Environmental Services
		Northpark Corporate Center
		1210 W. County Road E, Suite 700
		St. Paul, MN 55112
		(612) 490-1405

FILE:	3CHDA04F.DWG	DATE:	JUNE 1998	FIGURE:	8

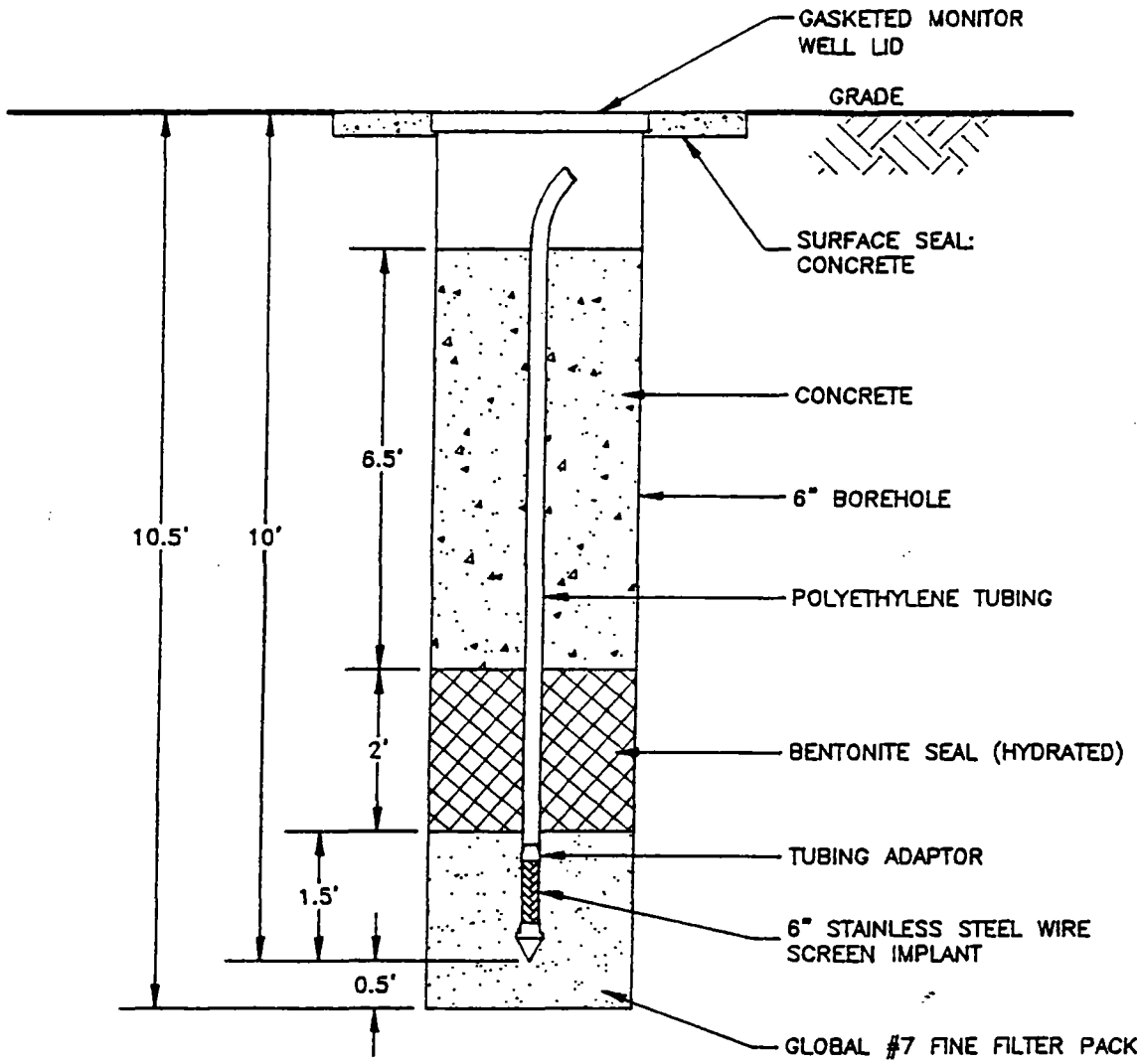


DAYTON THERMAL PRODUCTS PLANT
DAYTON, OHIO

ASMP-5 INSTALLATION (MARCH 9, 1998)

DATE	REVISED	PREPARED BY:
		LEGGETTE, BRASHEARS & GRAHAM, INC.
		Professional Ground-Water and Environmental Services
		Northpark Corporate Center
		1210 W. County Road E, Suite 700
		St. Paul, MN 55112
		(612) 490-1405

FILE:	3CHDA04F.DWG	DATE:	JUNE 1998	FIGURE:	8



NOT TO SCALE

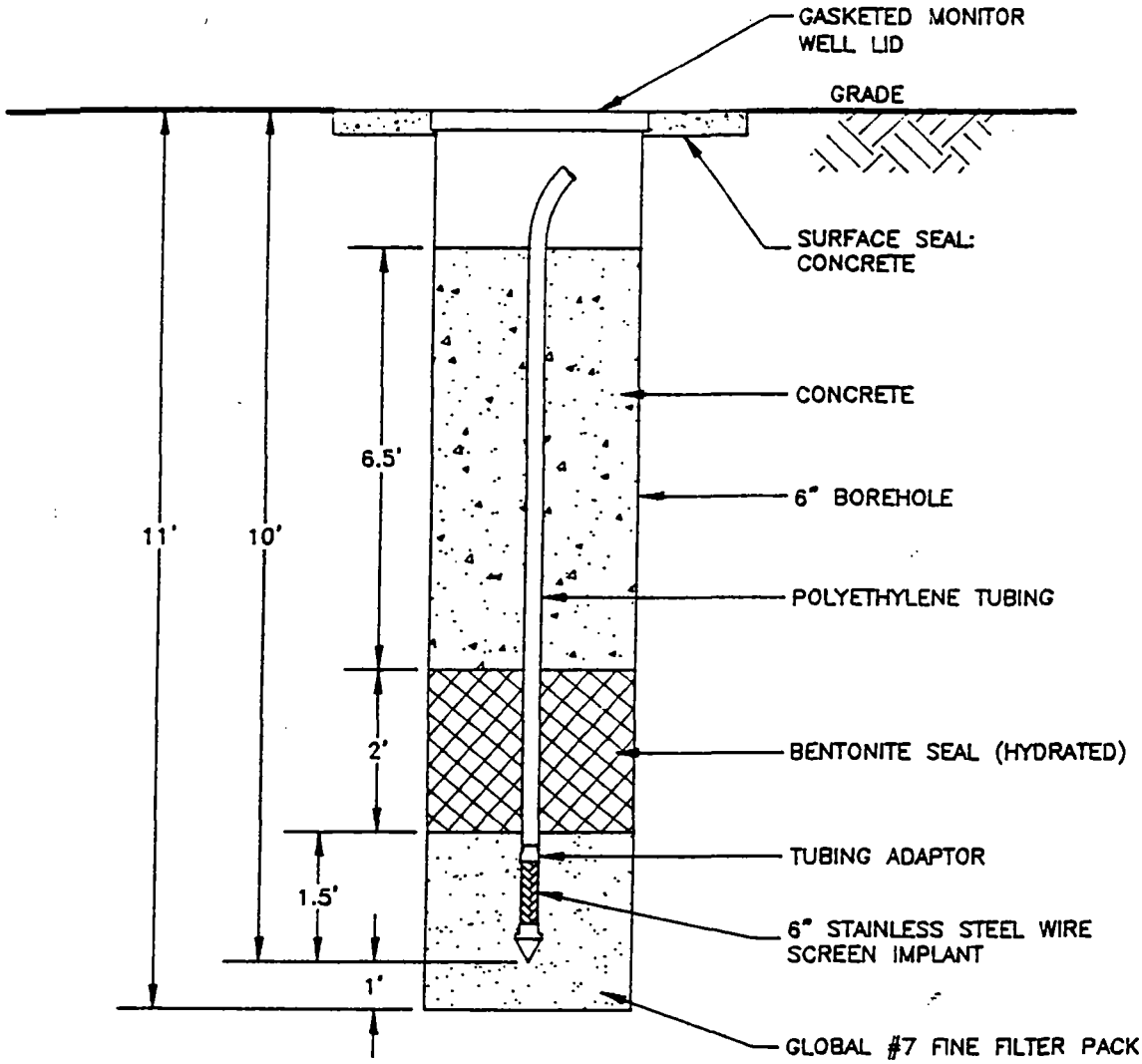
DAYTON THERMAL PRODUCTS PLANT

DAYTON, OHIO

VMP-1 INSTALLATION (MARCH 6, 1998)

DATE	REVISED	PREPARED BY:
		LEGGETTE, BRASHEARS & GRAHAM, INC.
		Professional Ground-Water and Environmental Services
		Northpark Corporate Center
		1210 W. County Road E, Suite 700
		St. Paul, MN 55112
		(612) 490-1405

FILE:	3CHDA04G.DWG	DATE: JUNE 1998	FIGURE: 8



NOT TO SCALE

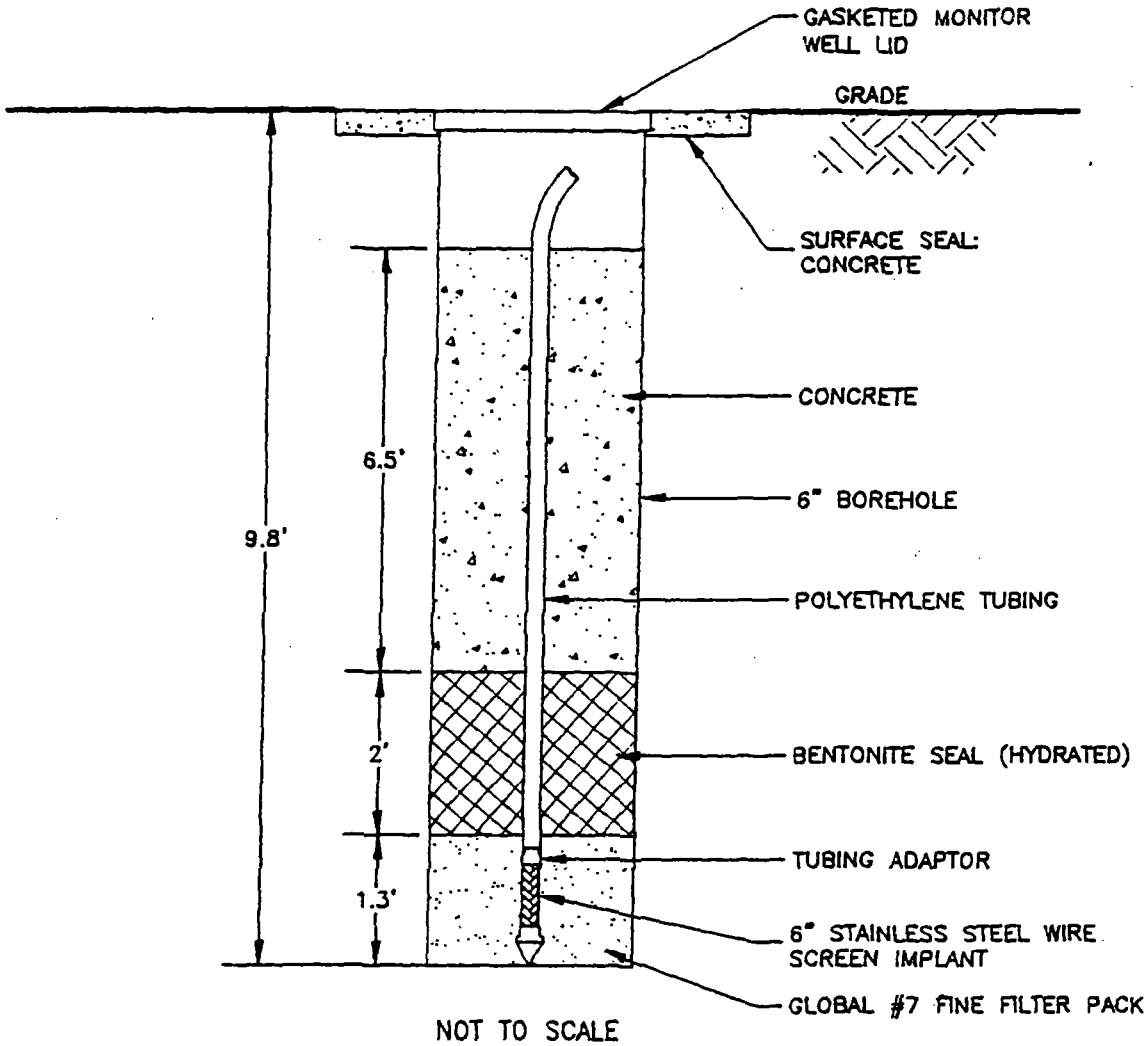
DAYTON THERMAL PRODUCTS PLANT
DAYTON, OHIO

VMP-2 INSTALLATION (MARCH 6, 1998)

DATE	REVISED

PREPARED BY:
LEGGETTE, BRASHEARS & GRAHAM, INC.
Professional Ground-Water and Environmental Services
Northpark Corporate Center
1210 W. County Road E, Suite 700
St. Paul, MN 55112
(612) 490-1405

FILE:	3CHDA04G.DWG	DATE: JUNE 1998	FIGURE: 8



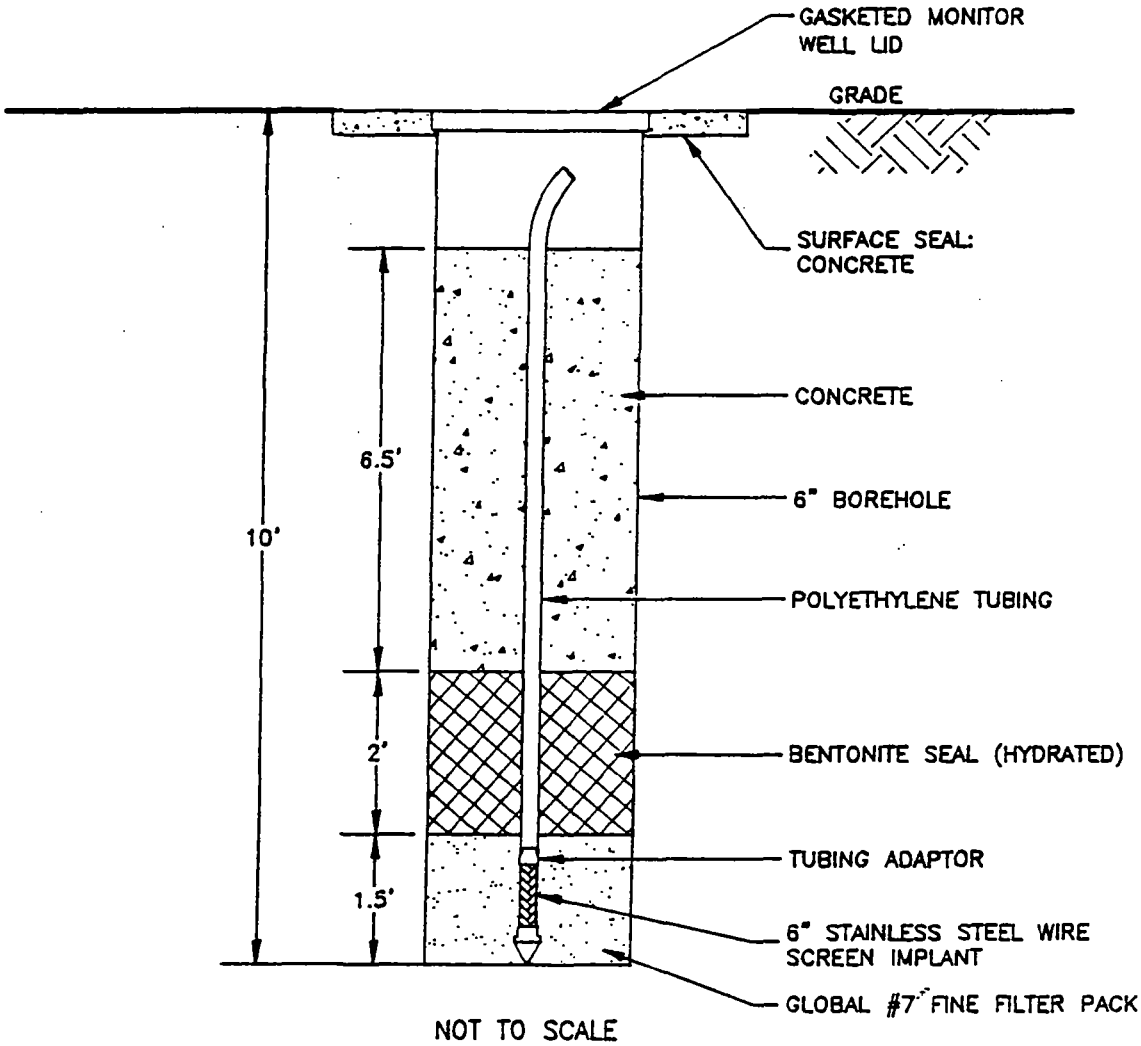
DAYTON THERMAL PRODUCTS PLANT

DAYTON, OHIO

VMP-3 INSTALLATION (MARCH 6, 1998)

DATE	REVISED	PREPARED BY:
		LEGGETTE, BRASHEARS & GRAHAM, INC.
		Professional Ground-Water and Environmental Services
		Northpark Corporate Center
		1210 W. County Road E, Suite 700
		St. Paul, MN 55112
		(612) 490-1405

FILE:	3CHDA04G.DWG	DATE:	JUNE 1998	FIGURE:	8

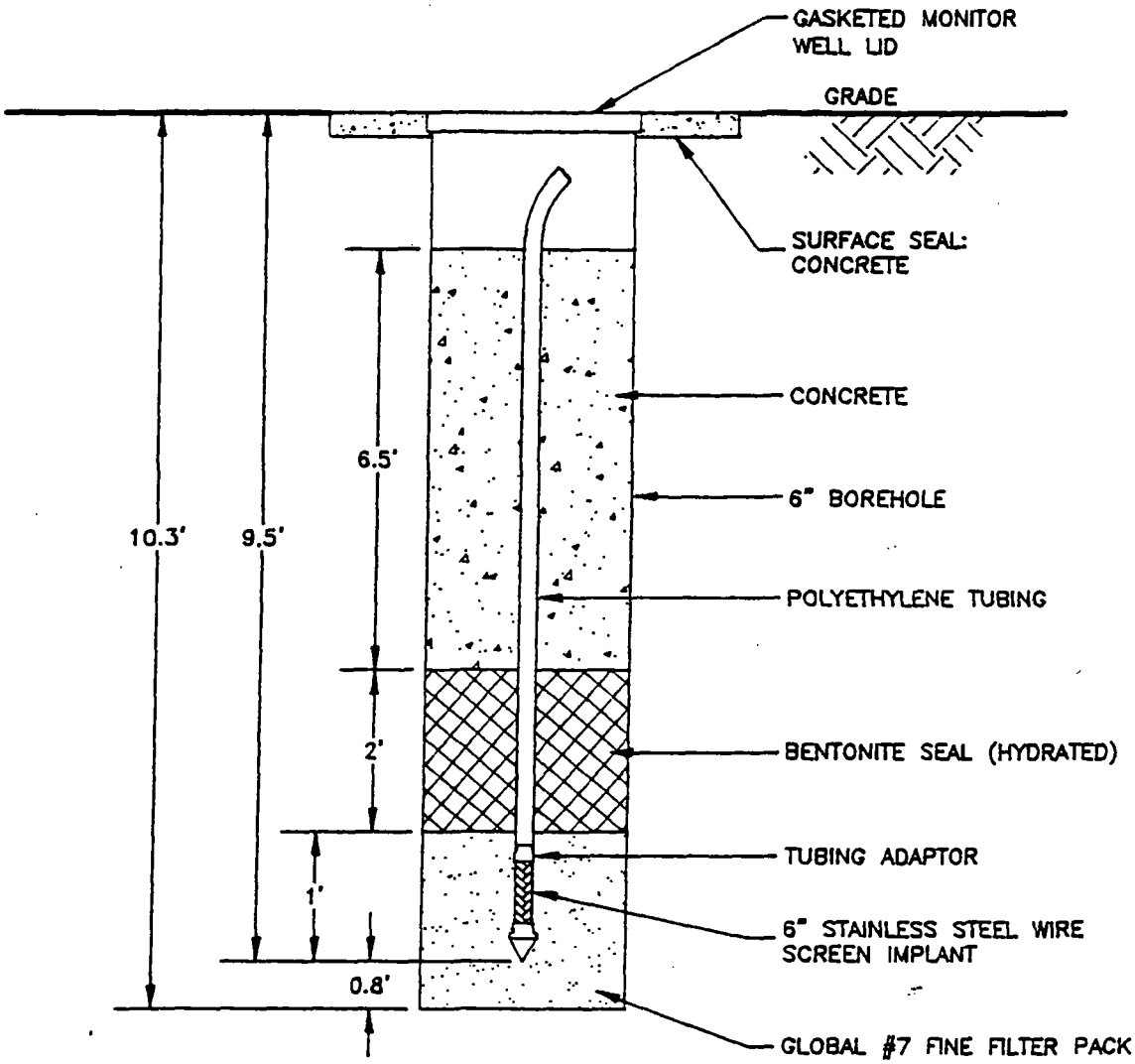


DAYTON THERMAL PRODUCTS PLANT
DAYTON, OHIO

VMP-4 INSTALLATION (MARCH 11, 1998)

DATE	REVISED	PREPARED BY:
		LEGGETTE, BRASHEARS & GRAHAM, INC.
		Professional Ground-Water and Environmental Services
		Northpark Corporate Center
		1210 W. County Road E, Suite 700
		St. Paul, MN 55112
		(612) 490-1405

FILE:	3CHDA04G.DWG	DATE: JUNE 1998	FIGURE: 8



NOT TO SCALE

DAYTON THERMAL PRODUCTS PLANT
DAYTON, OHIO

VMP-5 INSTALLATION (MARCH 6, 1998)

DATE	REVISED	PREPARED BY:
		LEGGETTE, BRASHEARS & GRAHAM, INC.
		Professional Ground-Water and Environmental Services
		Northpark Corporate Center
		1210 W. County Road E, Suite 700
		St. Paul, MN 55112
		(612) 490-1405

FILE:	3CHDA04G.DWG	DATE: JUNE 1998	FIGURE: 8

EPA Region 5 Records Ctr.
350037

Dayton 99-215

SAMPLES MUST BE ORGANIC ANALYZED BY MCP 3/31/99
DUE 4/26-30

NONCLP CASE DELIVERABLES SUMMARY SHEET

==========

SOW _____ INTEGRATOR:

CLIENT CHRYSLER CORPORATION CASE PRINTER _____

DATE 03/19/1999 CASE AUDITOR _____

PC _____ ACCOUNT 500944 TECH REVIEWER Ray Sutton

CASE/SDG 34180 21502 SAS FRACTION: VOLATILE
Custom Format Diskette MATRIX: WA
SDG: 500944 LOG PAGE 1355 / 1202 REPORT STYLE 1

==========

SCCN	TYPE	ID	S	V	P	RECDATE	DUEDATE	LABINST
931311	PR	T031199		2		3/12/99	3/22/99	RFA215/TCL VOC
931511	PR	T031499		2		3/16/99	3/26/99	RFA215/TCL VOCs
931308	PR	EMW031199		2		3/12/99	3/22/99	RFA215/TCL VOC
931510	PR	EDP031499		2		3/16/99	3/26/99	RFA215/TCL VOCs
931309	SS			2		3/12/99	3/22/99	
931310	SS			2		3/12/99	3/22/99	

==========

TOTAL SAMPLES = 6
TOTAL PRODUCTION SAMPLES = 4
TOTAL SPIKES SAMPLES = 2
TOTAL BLANKS SAMPLES = 0
TOTAL AMT: $1,500

BILLABLE REPEATS
_____
_____
_____

RELEASED BY: _____ DATE: ____/____/____

21502

3/26

21501 - V
21503 - ~~V~~

CompuChem
a Division of Liberty Analytical
501 N. Madison Avenue
Cary, NC 27513

SDG NARRATIVE
CASE:34180
SDG:21502
CONTRACT:500944

SAMPLE IDENTIFICATIONS: T031199 T031499 EMW031199 EDP031499

The four(4) water samples listed above were received intact, properly refrigerated,with proper chain of custody(COC) documentation on March 12, and 16, 1999. The samples were prepared and analyzed following SW846 Method 8260B. All of these samples were submitted for volatile only analysis.

VOLATILES:

Analysis holding time requirements were met for these samples. The majority of samples contained methylene chloride above the reporting limits.

No Tentatively Identified Compound (TIC) data is provided as requested by the client.

All of the surrogates met recovery criteria and all of the internal standards met response and retention time criteria in the analyses of these samples.

The associated method blanks met all quality control criteria and both contained methylene chloride below the reporting limits.

The associated Laboratory Control Samples(LCS's) met all QC acceptance limits.

No duplicate matrix spikes were generated as all samples were field QC samples.

The daily calibration standard CV990318A57 failed the minimum response factor criteria for bromoform. Due to the fact that the associated samples did not contain this analyte, we are reporting the data with reference to this qualifier.

The initial calibrations analyzed for this case-SDG were analyzed by Method 8260 B. Per the methodology, all compounds are to meet a Percent Relative Standard Deviation(%RSD) limit of no more than 15%. CompuChem has chosen to apply the option in this method of determining the mean RSD values for all analytes in the calibration.

When there are analytes with %RSDs greater than the limit, proof of calibration linearity can be shown if the average of all compounds in the initial calibration meet the same 15% limit. Based on Method 8260B requirements we are providing a list which shows all compounds that fail to meet the limit (designated by the <- sign), and their associated %RSDs. Finally the average of all %RSDs from all compounds in the initial calibration is shown, confirming the usability of the initial calibration and any data that follows it.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions listed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or his designee,as verified by the following signature.

Roy M. Sutton
Development Chemist
March 23, 1999

GC and GC/MS Column and Trap Specifications Table

COLUMNS

Brand Name	Coating Material	ID (mm)	Film Thickness (um)	Length (m)
GC Laboratory				
Restek	RTX-1701	0.53	0.5	30
J & W	DB-608	0.53	0.83	30
Restek	CLPesticides	0.53	0.5	30
Restek	CLPesticides II	0.53	0.42	30
GC/MS Volatiles Laboratory				
J & W	DB-624	0.53	3.0	30/75
Supelco	SPB-624	0.53	3.0	75
GC/MS Semivolatiles Laboratory				
J & W	DB-5	0.32	1.0	30
Hewlett Packard	HP5-MS	0.25	0.25	30

TRAP

GC/MS Volatiles Laboratory	
	* 1 cm of methyl silicone packing (OV-1 coating) * 8 cm of 2,6-diphenylene oxide polymer (Tenax) * 8 cm of silica gel * 7 cm of coconut charcoal * 0.5 cm of silanized glass wool at each end

CompuChem
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Notification Regarding Manual Editing/Integration Flags

In some instances, manual adjustments to the software output are necessary to provide accurate data. These adjustments are performed by the data reviewer, GC/MS operator, or GC chemist. An Extracted Ion Current Profile (EICP) or a GC chromatographic peak has been provided for the manual integration of each compound to demonstrate the accuracy of that process. Adjustments are flagged on the quantitation report in the far right column beyond the FINAL concentration for GC/MS analysis, and in the "Flags" column for GC analysis. The manual editing/integration flags are:

M - Denotes that a manual integration has been performed for this compound. The manual integration was performed in order to provide the most accurate area count as possible for the peak.

H - Denotes that the data reviewer, GC/MS operator, or GC Chemist has chosen an alternate peak within the retention time window from that chosen by the software for that compound. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

MH - Denotes that an alternate peak has been chosen within the retention time window from that chosen by the software for that compound and also a manual integration of the chosen peak has been performed. The manual integration was performed in order to provide the most accurate area count possible for the peak.

L - Denotes that the data reviewer or GC/MS operator has selected an alternate library search. This is typically done when an additional tentatively identified compound (TIC) has been added to the number of peaks searched. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

ML - Denotes that an alternate library search has been selected and a manual integration has also been performed. This is typically done when an additional TIC has been added and the TIC peak also required a manual integration.

With the introduction of the current EPA CLP SOW (Document Number OLM03.0, plus revisions) additional explanations for manual editing/integration are required. In the accompanying raw data packages, additional codes have been applied to the "M" flag and carry the following meanings;

M1 - The compound was not found by the automatic integration routine.

M2 - The compound was incorrectly integrated by the automatic integration routine.

M3 - The co-eluting compounds were incorrectly integrated by the automatic integration routine.

These codes will appear in the GC/MS and GC data packages.

Robert E. Meierer
Vice President

Revision 4 (10/8/97)

DATA REPORTING QUALIFIERS

On the Form I, under the column labeled "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each compound. The qualifiers used are:

U : This flag indicates the compound was analyzed for but not detected. The Contract Required Quantitation Limit (CRQL) (or Reporting Limit) will be adjusted to reflect any dilution and, for soils, the percent moisture.

J : This flag indicates an estimated value. The flag is used as detailed below:

1. When estimating a concentration for tentatively identified compounds (TICs) where a response factor of 1.0 is assumed for the TIC analyte,

2. When the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the CRQL (or Reporting Limit) but greater than zero, and

3. When the retention time data indicates the presence of a compound that meets the pesticide/Aroclor or other GC or HPLC identification criteria, and the result is less than the CRQL (or Reporting Limit) but greater than zero. For example, if the CRQL (or Reporting Limit) is 10 µg/L, but a concentration of 3 µg/L is calculated, it is reported as 3J.

N : This flag indicates presumptive evidence of a compound. This flag is only used for TICs, where the identification is based on a mass spectral library search. For generic characterization of a TIC such as 'chlorinated hydrocarbon', the N flag is not used.

P : In the EPA's Contract Laboratory Program (CLP), this flag is used for a pesticide/Aroclor target analyte, when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a P.
For SW-846 GC and HPLC analyses, when the Relative Percent Difference (RPD) is greater than 40% and there is no evidence of chromatographic anomalies or interferences, then the higher of the two values is reported and flagged with a P. When the RPD is equal to or less than 40%, our policy is to also report the higher of the two values, although the choice could be a project specific issue.

C : This flag applies to GC or HPLC results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, this flag is not applied; a laboratory-defined flag is used instead (see the X/Y/Z qualifier.)

DATA REPORTING QUALIFIERS (continued)

B : This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates probable blank contamination and warns the data user to take appropriate action. This flag is used for a TIC as well as for a positively identified target compound. The combination of flags BU or UB is not an allowable policy. Blank contaminants are flagged B only when they are detected in the sample.

E : This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis. If one or more compounds have a response greater than the upper level of the calibration range, the sample or extract will be diluted and reanalyzed. All such compounds with a response greater than the upper level of the calibration range will have the concentration flagged with an E on Form I for the original analysis.

D : If a sample or extract is reanalyzed at a higher dilution factor, for example when the concentration of an analyte exceeds the upper calibration range, the DL suffix is appended to the sample number on Form I for the more diluted sample, and **all** reported concentrations on that Form I are flagged with the D flag. This flag alerts data users that any discrepancies between the reported concentrations may be due to dilution of the sample or extract.

NOTE 1: The D flag is not applied to compounds which are not detected in the sample analysis i.e. compounds reported with the CRQL (or Reporting Limit) and the U flag.

NOTE 2: Separate Form Is are used for reporting the original analysis (Client Sample No. XXXXX) and the more diluted sample analysis (Client Sample No. XXXXXDL) i.e. the results from both analyses <u>are not combined</u> on a single Form I.

A : This flag indicates that a TIC is a suspected aldol-condensation product.

S : This flag indicates that an analyte was detected by a single column GC analysis but the result was below the Reporting Limit. This flag is only used when clients request a second (confirmation) column analysis after detecting an analyte above the Reporting Limit in the initial, single column analysis. This flag alerts the data user that only an analyte was detected below the Reporting Limit and a second (confirmation) analysis was not performed.

X/Y/Z : Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y and Z.

Laboratory Notice

Initial Calibration Date(s): March 17, 1999

Instrument Identifier: INCOS57

An initial calibration was analyzed by Method 8260B. Per the methodology, all compounds are to meet a Percent Relative Standard Deviation (%RSD) limit of no more than 15%. Additional calibration options are provided in the method when the RSD exceeds 15%. CompuChem has chosen to apply the option of determining the mean RSD values for all analytes in the calibration.

When there are analytes with %RSDs greater than the limit, proof of c ılibration linearity can be shown if the average of all compounds in the initial calibration meet the same 15% limit. Based on Method 8260B requirements, we are providing a list which shows all compounds that fail to meet the limit (designated by the <- sign), and their associated %RSDs. Finally the average of all %RSDs from all compounds in the initial calibration is shown, confirming the usability of the initial calibration and any data that follows it.

Average %RSD for all compounds in this Initial Calibration: 8.158

Data Reviewer/ID# _____ /2377

Date March 19,1999

Report Date : 19-Mar-1999 08:38

CompuChem Environmental Corporation

INITIAL CALIBRATION DATA

Start Cal Date : 17-MAR-1999 20:07
End Cal Date : 18-MAR-1999 01:12
Quant Method : ISTD
Target Version : 3.12
Integrator : HP RTE
Method file : /chem/f50057.i/f990317b.b/W8260-B-25ML.m
Cal Date : 19-Mar-1999 08:32 thornton
Curve Type : Average

Calibration File Names:
Level 1: /chem/f50057.i/f990317b.b/cs990317b57.d
Level 2: /chem/f50057.i/f990317b.b/cw990317b57.d
Level 3: /chem/f50057.i/f990317b.b/cv990317b57.d
Level 4: /chem/f50057.i/f990317b.b/cx990317b57.d
Level 5: /chem/f50057.i/f990317b.b/ct990317b57.d

Compound	12 Level 1	25 Level 2	125 Level 3	250 Level 4	625 Level 5	___ RRF	% RSD	
8 Dichlorodifluoromethane	*****	*****	*****	*****	*****	*****	*****	<-
9 Chloromethane	0.17863	0.20651	0.16522	0.14984	0.16934	0.17391	12.064	
10 Vinyl Chloride	0.20070	0.30461	0.25275	0.22963	0.24003	0.24554	15.555	
11 Bromomethane	0.31963	0.37546	0.32968	0.32305	0.35275	0.34012	6.940	
12 Chloroethane	0.19293	0.20065	0.18920	0.19921	0.22605	0.20161	7.159	
13 Trichlorofluoromethane	*****	*****	*****	*****	*****	*****	*****	<-
14 Diethylether	*****	*****	*****	*****	*****	*****	*****	<-
15 Acrolein	*****	*****	*****	*****	*****	*****	*****	<-
16 1,1-Dichloroethene	0.34311	0.32183	0.31912	0.33777	0.34837	0.33404	3.884	
17 Iodomethane	*****	*****	*****	*****	*****	*****	*****	<-
18 1,1,1-trichloro-2,2,2-trifluo	*****	*****	*****	*****	*****	*****	*****	<-
19 Carbon disulfide	1.00818	1.00894	0.95652	1.07603	1.13093	1.03612	6.553	
20 1,1,2-trichloro-1,2,2-trifluo	*****	*****	*****	*****	*****	*****	*****	<-
21 Acetone	0.01447	0.01486	0.01035	0.01231	0.01241	0.01288	14.198	
22 3-Chloropropene	*****	*****	*****	*****	*****	*****	*****	<-
23 Acetonitrile	*****	*****	*****	*****	*****	*****	*****	<-
24 Methylene Chloride	0.96469	0.78530	0.62258	0.67429	0.63831	0.73704	19.300	<-
25 trans-1,2-Dichloroethene	0.39560	0.35855	0.35746	0.37441	0.37654	0.37251	4.190	
26 Acrylonitrile	*****	*****	*****	*****	*****	*****	*****	<-
27 Methyl-tert-butyl ether	0.25973	0.25289	0.24270	0.26985	0.20688	0.24641	9.827	
28 tert-butyl alcohol	*****	*****	*****	*****	*****	*****	*****	<-
29 n-hexane	*****	*****	*****	*****	*****	*****	*****	<-
30 1,1-Dichloroethane	0.68198	0.64721	0.66104	0.66914	0.65716	0.66330	1.972	
31 Vinyl acetate	*****	*****	*****	*****	*****	*****	*****	<-
32 2,2-Dichloropropane	*****	*****	*****	*****	*****	*****	*****	<-
33 cis-1,2-Dichloroethene	0.38093	0.35120	0.34099	0.34038	0.30671	0.34404	7.729	
34 2-Butanone	0.00599	0.00621	0.00568	0.00608	0.00460	0.00571	11.447	

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Report Date : 19-Mar-1999 08:38

CompuChem Environmental Corporation

INITIAL CALIBRATION DATA

Start Cal Date : 17-MAR-1999 20:07
End Cal Date : 18-MAR-1999 01:12
Quant Method : ISTD
Target Version : 3.12
Integrator : HP RTE
Method file : /chem/f50057.i/f990317b.b/W8260-B-25ML.m
Cal Date : 19-Mar-1999 08:32 thornton
Curve Type : Average

Compound	12 Level 1	25 Level 2	125 Level 3	250 Level 4	625 Level 5	___ RRF	% RSD	
35 Propionitrile	*****	*****	*****	*****	*****	*****	*****	<-
36 Bromochloromethane	*****	*****	*****	*****	*****	*****	*****	<-
37 Methyl acrylate	*****	*****	*****	*****	*****	*****	*****	<-
38 Methacrylonitrile	*****	*****	*****	*****	*****	*****	*****	<-
39 Tetrahydrofuran	*****	*****	*****	*****	*****	*****	*****	<-
40 Chloroform	0.71169	0.68035	0.67967	0.67333	0.62205	0.67342	4.807	
41 1,1,1-Trichloroethane	0.71326	0.68304	0.69244	0.66885	0.62819	0.67716	4.692	
42 1-chlorobutane	*****	*****	*****	*****	*****	*****	*****	<-
43 Carbon Tetrachloride	0.61001	0.60714	0.61170	0.60010	0.56600	0.59899	3.166	
44 1,1-dichloropropene	*****	*****	*****	*****	*****	*****	*****	<-
45 Pentafluorobenzene	*****	*****	*****	*****	*****	*****	*****	<-
46 Benzene	0.88628	0.83785	0.85351	0.83512	0.76032	0.83462	5.542	
47 1,2-Dichloroethane	0.24123	0.23702	0.22124	0.22882	0.20427	0.22651	6.454	
48 Isobutyl alcohol	*****	*****	*****	*****	*****	*****	*****	<-
49 Crotonaldehyde	*****	*****	*****	*****	*****	*****	*****	<-
50 Trichloroethene	0.35182	0.32050	0.32497	0.34070	0.30877	0.32935	5.158	
51 1,2-Dichloropropane	0.29928	0.29049	0.26952	0.28173	0.28599	0.28540	3.856	
52 Dibromomethane	*****	*****	*****	*****	*****	*****	*****	<-
53 1,4-dioxane	*****	*****	*****	*****	*****	*****	*****	<-
54 Methylmethacrylate	*****	*****	*****	*****	*****	*****	*****	<-
55 Bromodichloromethane	0.31655	0.34336	0.34184	0.37383	0.34710	0.34454	5.906	
56 2-chloroethyl vinyl ether	*****	*****	*****	*****	*****	*****	*****	<-
57 cis-1,3-Dichloropropene	0.19766	0.23267	0.24319	0.26629	0.25055	0.23807	10.793	
58 4-Methyl-2-pentanone	0.09581	0.09424	0.07650	0.07921	0.06615	0.08238	15.225	<-
59 Toluene	0.71546	0.73686	0.76535	0.74451	0.80003	0.74628	5.113	
60 trans-1,3-Dichloropropene	0.21780	0.23675	0.24978	0.25354	0.24690	0.24095	5.961	
61 1,1,2-Trichloroethane	0.16907	0.16878	0.17607	0.18961	0.17974	0.17665	4.880	
62 Ethylmethacrylate	*****	*****	*****	*****	*****	*****	*****	<-
63 Tetrachloroethene	0.35978	0.34691	0.37763	0.36192	0.39831	0.36891	5.348	
64 1,3-Dichloropropane	*****	*****	*****	*****	*****	*****	*****	<-
65 2-hexanone	0.05356	0.06059	0.04709	0.05068	0.04546	0.05147	11.631	
66 Dibromochloromethane	0.25052	0.26210	0.26645	0.26742	0.25262	0.25982	3.014	
67 1,2-Dibromoethane	*****	*****	*****	*****	*****	*****	*****	<-
68 Chlorobenzene	0.75668	0.84533	0.89959	0.90863	0.89554	0.86157	7.265	

Report Date : 19-Mar-1999 08:38

CompuChem Environmental Corporation

INITIAL CALIBRATION DATA

Start Cal Date : 17-MAR-1999 20:07
End Cal Date : 18-MAR-1999 01:12
Quant Method : ISTD
Target Version : 3.12
Integrator : HP RTE
Method file : /chem/f50057.i/f990317b.b/W8260-B-25ML.m
Cal Date : 19-Mar-1999 08:32 thornton
Curve Type : Average

Compound	12 Level 1	25 Level 2	125 Level 3	250 Level 4	625 Level 5	___ RRF	% RSD
M 103 Xylene (total)	0.48967	0.50772	0.55812	0.57092	0.58780	0.54285	7.763
S 4 Dibromofluoromethane	0.54400	0.51693	0.48302	0.47897	0.42446	0.48947	9.197
S 5 1,2-Dichloroethane-d4	0.24977	0.22934	0.20349	0.20876	0.18888	0.21605	11.009
S 6 Toluene-d8	1.22870	1.20919	1.24878	1.19948	1.27425	1.23208	2.454
S 7 Bromofluorobenzene	1.94088	1.47466	1.42391	1.40545	1.46716	1.54241	14.563

8A

Report Date : 19-Mar-1999 08:38

CompuChem Environmental Corporation

INITIAL CALIBRATION DATA

Start Cal Date : 17-MAR-1999 20:07
End Cal Date : 18-MAR-1999 01:12
Quant Method : ISTD
Target Version : 3.12
Integrator : HP RTE
Method file : /chem/f50057.i/f990317b.b/W8260-B-25ML.m
Cal Date : 19-Mar-1999 08:32 thornton
Curve Type : Average

	Compound	12 Level 1	25 Level 2	125 Level 3	250 Level 4	625 Level 5	___ RRF	% RSD	
69	1-Chlorohexane	*****	*****	*****	*****	*****	*****	*****	<-
70	1,1,1,2-Tetrachloroethane	*****	*****	*****	*****	*****	*****	*****	<-
71	Ethylbenzene	0.42456	0.43723	0.51089	0.51129	0.57434	0.49166	12.479	
72	m,p-Xylene	0.54072	0.56427	0.65269	0.66539	0.66431	0.61748	9.734	
73	o-Xylene	0.48967	0.50772	0.55812	0.57092	0.58780	0.54285	7.763	
74	Styrene	0.64750	0.69986	0.77132	0.81547	0.82064	0.75096	10.042	
75	Bromoform	0.10426	0.10141	0.10211	0.11348	0.11037	0.10633	5.017	
76	Isopropyl Benzene	*****	*****	*****	*****	*****	*****	*****	<-
77	cis-1,4-dichloro-2-butene	*****	*****	*****	*****	*****	*****	*****	<-
78	Bromobenzene	*****	*****	*****	*****	*****	*****	*****	<-
79	1,2,3-Trichloropropane	*****	*****	*****	*****	*****	*****	*****	<-
80	1,1,2,2-Tetrachloroethane	0.68080	0.46340	0.45202	0.50827	0.48799	0.51850	17.998	<-
81	trans-1,4-dichloro-2-butene	*****	*****	*****	*****	*****	*****	*****	<-
82	n-Propyl Benzene	*****	*****	*****	*****	*****	*****	*****	<-
83	2-Chlorotoluene	*****	*****	*****	*****	*****	*****	*****	<-
84	4-Chlorotoluene	*****	*****	*****	*****	*****	*****	*****	<-
85	1,3,5-Trimethyl Benzene	*****	*****	*****	*****	*****	*****	*****	<-
86	Pentachloroethane	*****	*****	*****	*****	*****	*****	*****	<-
87	tert-Butyl Benzene	*****	*****	*****	*****	*****	*****	*****	<-
88	1,2,4-Trimethyl Benzene	*****	*****	*****	*****	*****	*****	*****	<-
89	sec-Butyl Benzene	*****	*****	*****	*****	*****	*****	*****	<-
90	1,3-Dichlorobenzene	*****	*****	*****	*****	*****	*****	*****	<-
91	1,4-Dichlorobenzene	*****	*****	*****	*****	*****	*****	*****	<-
92	p-Isopropyl Toluene	*****	*****	*****	*****	*****	*****	*****	<-
93	Benzyl Chloride	*****	*****	*****	*****	*****	*****	*****	<-
94	1,2-Dichlorobenzene	*****	*****	*****	*****	*****	*****	*****	<-
95	n-Butyl Benzene	*****	*****	*****	*****	*****	*****	*****	<-
96	1,2-Diethylbenzene	*****	*****	*****	*****	*****	*****	*****	<-
97	1,2-Dibromo-3-Chloropropane	*****	*****	*****	*****	*****	*****	*****	<-
98	1,2,4-Trichlorobenzene	*****	*****	*****	*****	*****	*****	*****	<-
99	Hexachlorobutadiene	*****	*****	*****	*****	*****	*****	*****	<-
100	Naphthalene	*****	*****	*****	*****	*****	*****	*****	<-
101	1,2,3-Trichlorobenzene	*****	*****	*****	*****	*****	*****	*****	<-
M 102	1,2-Dichloroethene (total)	0.38827	0.35487	0.34922	0.35740	0.34163	0.35828	4.975	

Laboratory Notice

Initial Calibration Date(s): March 18, 1999

Instrument Identifier: INCOS51

An initial calibration was analyzed by Method 8260B. Per the methodology, all compounds are to meet a Percent Relative Standard Deviation (%RSD) limit of no more than 15%. Additional calibration options are provided in the method when the RSD exceeds 15%. CompuChem has chosen to apply the option of determining the mean RSD values for all analytes in the calibration.

When there are analytes with %RSDs greater than the limit, proof of calibration linearity can be shown if the average of all compounds in the initial calibration meet the same 15% limit. Based on Method 8260B requirements, we are providing a list which shows all compounds that fail to meet the limit (designated by the <- sign), and their associated %RSDs. Finally the average of all %RSDs from all compounds in the initial calibration is shown, confirming the usability of the initial calibration and any data that follows it.

Average %RSD for all compounds in this Initial Calibration: 9.285

Data Reviewer/ID# ____/2377

Date March 19,1999

Report Date : 19-Mar-1999 09:37

CompuChem Environmental Corporation

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-1999 12:37
End Cal Date : 18-MAR-1999 14:02
Quant Method : ISTD
Target Version : 3.12
Integrator : HP RTE
Method file : /chem/f50051.i/f990318a.b/W8260-B-25ML.m
Cal Date : 19-Mar-1999 09:34 thornton
Curve Type : Average

Calibration File Names:
Level 1: /chem/f50051.i/f990318a.b/cv990318a51.d
Level 2: /chem/f50051.i/f990318a.b/cw990318a51.d
Level 3: /chem/f50051.i/f990318a.b/cx990318a51.d
Level 4: /chem/f50051.i/f990318a.b/cy990318a51.d
Level 5: /chem/f50051.i/f990318a.b/ct990318a51.d

Compound	12 Level 1	25 Level 2	125 Level 3	250 Level 4	625 Level 5	___ RRF	% RSD	
8 Dichlorodifluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
9 Chloromethane	0.13197	0.13543	0.10368	0.09828	0.13461	0.12080	15.094	<-
10 Vinyl Chloride	0.17646	0.17372	0.15639	0.14991	0.18856	0.16901	9.280	
11 Bromomethane	0.23060	0.20937	0.18048	0.17804	0.21393	0.20248	11.182	
12 Chloroethane	0.14791	0.13498	0.12879	0.11594	0.13758	0.13304	8.860	
13 Trichlorofluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
14 Diethylether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
15 Acrolein	0.01123	0.00578	0.00428	0.00520	0.00492	0.00628	44.894	<-
16 1,1-Dichloroethene	0.22906	0.24507	0.22804	0.24258	0.24622	0.23819	3.740	
17 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
18 1,1,1-trichloro-2,2,2-trifluo	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
19 Carbon disulfide	0.57059	0.68723	0.64666	0.66121	0.68018	0.64917	7.199	
20 1,1,2-trichloro-1,2,2-trifluo	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
21 Acetone	0.00541	0.01115	0.00838	0.00842	0.00912	0.00849	24.245	<-
22 3-Chloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
23 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
24 Methylene Chloride	0.49887	0.41163	0.36498	0.35198	0.36423	0.39834	15.223	<-
25 trans-1,2-Dichloroethene	0.25402	0.26785	0.24050	0.25777	0.25520	0.25507	3.842	
26 Acrylonitrile	0.01001	0.00884	0.00797	0.00856	0.00850	0.00878	8.656	
27 Methyl-tert-butyl ether	0.19866	0.20690	0.18786	0.19911	0.18066	0.19464	5.313	
28 tert-butyl alcohol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
29 n-hexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
30 1,1-Dichloroethane	0.44371	0.46369	0.43449	0.42614	0.43245	0.44010	3.321	
31 Vinyl acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
32 2,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
33 cis-1,2-Dichloroethene	0.24654	0.24469	0.22962	0.24145	0.23070	0.23860	3.321	
34 2-butanone	0.00117	0.00169	0.00305	0.00347	0.00311	0.00250	40.135	<-

9.28
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Report Date : 19-Mar-1999 09:37

CompuChem Environmental Corporation

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-1999 12:37
End Cal Date : 18-MAR-1999 14:02
Quant Method : ISTD
Target Version : 3.12
Integrator : HP RTE
Method file : /chem/f50051.i/f990318a.b/W8260-B-25ML.m
Cal Date : 19-Mar-1999 09:34 thornton
Curve Type : Average

Compound	12 Level 1	25 Level 2	125 Level 3	250 Level 4	625 Level 5	RRF	% RSD	
35 Propionitrile	*****	*****	*****	*****	*****	*****	*****	<-
36 Bromochloromethane	*****	*****	*****	*****	*****	*****	*****	<-
37 Methyl acrylate	*****	*****	*****	*****	*****	*****	*****	<-
38 Methacrylonitrile	*****	*****	*****	*****	*****	*****	*****	<-
39 Tetrahydrofuran	*****	*****	*****	*****	*****	*****	*****	<-
40 Chloroform	0.49299	0.50445	0.46837	0.46964	0.44289	0.47567	5.032	
41 1,1,1-Trichloroethane	0.58912	0.60772	0.57137	0.59839	0.59142	0.59160	2.270	
42 1-chlorobutane	*****	*****	*****	*****	*****	*****	*****	<-
43 Carbon Tetrachloride	0.59868	0.62776	0.58007	0.59585	0.59429	0.59933	2.910	
44 1,1-dichloropropene	*****	*****	*****	*****	*****	*****	*****	<-
45 Pentafluorobenzene	*****	*****	*****	*****	*****	*****	*****	<-
46 Benzene	0.66769	0.71934	0.67206	0.67809	0.67883	0.68320	3.032	
47 1,2-Dichloroethane	0.18864	0.18156	0.17694	0.17416	0.16779	0.17782	4.410	
48 Isobutyl alcohol	*****	*****	*****	*****	*****	*****	*****	<-
49 Crotonaldehyde	*****	*****	*****	*****	*****	*****	*****	<-
50 Trichloroethene	0.32515	0.36873	0.37639	0.38780	0.37937	0.36749	6.703	
51 1,2-Dichloropropane	0.22645	0.21992	0.21373	0.21291	0.20394	0.21539	3.905	
52 Dibromomethane	*****	*****	*****	*****	*****	*****	*****	<-
53 1,4-dioxane	*****	*****	*****	*****	*****	*****	*****	<-
54 Methylmethacrylate	*****	*****	*****	*****	*****	*****	*****	<-
55 Bromodichloromethane	0.42855	0.37239	0.36427	0.35505	0.33916	0.37188	9.142	
56 2-chloroethyl vinyl ether	0.03444	0.03121	0.03244	0.03473	0.03589	0.03374	5.583	
57 cis-1,3-Dichloropropene	0.25048	0.23492	0.23547	0.25458	0.25630	0.24635	4.222	
58 4-Methyl-2-pentanone	0.10222	0.07724	0.06357	0.06721	0.06676	0.07540	21.014	<-
59 Toluene	0.74885	0.73737	0.72364	0.76493	0.73966	0.74289	2.056	
60 trans-1,3-Dichloropropene	0.21965	0.21931	0.21004	0.22987	0.23038	0.22185	3.823	
61 1,1,2-Trichloroethane	0.17392	0.16029	0.13760	0.13933	0.13414	0.14905	11.584	
62 Ethylmethacrylate	*****	*****	*****	*****	*****	*****	*****	<-
63 Tetrachloroethene	0.54003	0.61324	0.56419	0.56852	0.54866	0.56693	4.998	
64 1,3-Dichloropropane	*****	*****	*****	*****	*****	*****	*****	<-
65 2-hexanone	0.06529	0.05343	0.04060	0.04089	0.04114	0.04827	22.704	<-
66 Dibromochloromethane	0.34178	0.34420	0.32112	0.33011	0.31426	0.33029	3.909	
67 1,2-Dibromoethane	*****	*****	*****	*****	*****	*****	*****	<-
68 Chlorobenzene	0.88830	0.89761	0.81951	0.82561	0.78266	0.84274	5.792	

Report Date : 19-Mar-1999 09:37

CompuChem Environmental Corporation

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-1999 12:37
End Cal Date : 18-MAR-1999 14:02
Quant Method : ISTD
Target Version : 3.12
Integrator : HP RTE
Method file : /chem/f50051.i/f990318a.b/W8260-B-25ML.m
Cal Date : 19-Mar-1999 09:34 thornton
Curve Type : Average

Compound	12 Level 1	25 Level 2	125 Level 3	250 Level 4	625 Level 5	RRF	% RSD	
69 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
70 1,1,1,2-Tetrachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
71 Ethylbenzene	0.48365	0.52710	0.49753	0.50715	0.46561	0.49621	4.693	
72 m,p-Xylene	0.62268	0.69793	0.63937	0.63307	0.60144	0.63890	5.635	
73 o-Xylene	0.58110	0.62406	0.55290	0.54589	0.52027	0.56484	7.003	
74 Styrene	0.73728	0.81028	0.75189	0.76418	0.70110	0.75295	5.291	
75 Bromoform	0.20521	0.17905	0.16722	0.17050	0.17273	0.17894	8.556	
76 Isopropyl Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
77 cis-1,4-dichloro-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
78 Bromobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
79 1,2,3-Trichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
80 1,1,2,2-Tetrachloroethane	0.40050	0.34412	0.28675	0.27784	0.23746	0.30933	20.566	<-
81 trans-1,4-dichloro-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
82 n-Propyl Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
83 2-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
84 4-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
85 1,3,5-Trimethyl Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
86 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
87 tert-Butyl Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
88 1,2,4-Trimethyl Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
89 sec-Butyl Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
90 1,3-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
91 1,4-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
92 p-Isopropyl Toluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
93 Benzyl Chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
94 1,2-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
95 n-Butyl Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
96 1,2-diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
97 1,2-Dibromo-3-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
98 1,2,4-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
99 Hexachlorobutadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
100 Naphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
101 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
M 102 1,2-Dichloroethene (total)	0.25028	0.25627	0.23506	0.24961	0.24295	0.24683	3.281	

Report Date : 19-Mar-1999 09:37

CompuChem Environmental Corporation

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-1999 12:37
End Cal Date : 18-MAR-1999 14:02
Quant Method : ISTD
Target Version : 3.12
Integrator : HP RTE
Method file : /chem/f50051.i/f990318a.b/W8260-B-25ML.m
Cal Date : 19-Mar-1999 09:34 thornton
Curve Type : Average

Compound	12 Level 1	25 Level 2	125 Level 3	250 Level 4	625 Level 5	___ RRF	% RSD
M 103 Xylene (total)	0.58110	0.62406	0.55290	0.54589	0.52027	0.56484	7.003
S 4 Dibromofluoromethane	0.36068	0.36080	0.35459	0.35472	0.33594	0.35335	2.885
S 5 1,2-Dichloroethane-d4	0.22073	0.17933	0.16676	0.16605	0.15905	0.17838	13.889
S 6 Toluene-d8	1.04281	1.18799	1.12143	1.14833	1.13482	1.12708	4.727
S 7 Bromofluorobenzene	1.04947	0.98900	0.93609	0.94548	0.87084	0.95818	6.915

CHRYSLER CORPORATION

Building 40B Free product Delineation

Chain-of-Custody

04023 A

CompuChem
501 Madison Avenue
Cary, NC 27513
Phone Number: 1-800-833-5097
Fax Number: (919) 379-4050

Project Name: Dayton Thermal Products
Site Location: 1600 Webster St, Dayton OH
Site Code: SC001
RFA Number: YGQP9900215
Chrysler PM: Gary Stanczuk

Consultant: LBG
Address: 1210 West County Road E, St. Paul MN 55112
Consultant PM: Ken Vogel
Phone: 651 490 1405 Fax: 651 490 1006

Turn-around Time Request:
24 calendar hrs.
48 calendar hrs.
10 days
28 days

Data Package Deliverables: (circle)
Chrysler Level 1
Chrysler Level 2
Other (specify):

Matrix Codes
S - Soil SW - Surface Water
GW - Groundwater A - Air
Sed. - Sediment
O - Other (specify) Lab Pure Water Carboy 5

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	4oz Glass No Preservative TCL VOC 8260	Volatiles pH <2	Metals pH < 2	Cyanide pH > 12	Other	Remarks
MW-21S 2-4'	3/10/99	15:00	G	S	1	X					
MW-21S 8-10'	↓	15:45	↓	↓	1	X					
MW-21S 18-20'	↓	17:00	↓	↓	1	X					
MW-22S 5-7'	3/4/99	17:15	↓	↓	1	X					
MW-22S 10-12'	↓	17:30	↓	↓	3	X					
MW-22S ~~18-20'~~ 19'-21'	↓	18:06	↓	↓	1	X					MS/MSD
EMW031199	↓	17:55	↓	O	2	X					
Trip Blank T031199	3/11/99			O	2	X					3/5/99 Carboy 3

Add TCLP Ext & hold for VOCs per Dave Strand @ LBG per sample IDs
MW-21S 18-20 & MW-22S 19-21
DZ 3-12-99

Sampler(s)
David Strand
Mike Plante

Cooler ID # 497
Is RFA sampling complete? Yes No

Bottles Relinquished under Airbill No. 4287 4960 0581
Samples Relinquished under Airbill No. 810525280920
Temperature (corrected) 2.0 C

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact?
[signature]	3/11/99					Yes No
						Yes No
			Received for Laboratory by: [signature]	3/12/99	0855	Yes No

Chrysler Corporation 800 Chrysler Drive, CIMS 480-08-51, Auburn Hills, Michigan 48326-2757

Distribution: White copy: Data package Yellow : Retained by laboratory Pink: Retained by sampler

Opened cooler at 9:11 AM CT 3/12

SDG 215A per Dave Strand @ LBG
DZ 3/12/99

CHRYSLER CORPORATION

Free Product Building 40B
Silicate Line Soil Confirmation

Chain-of-Custody

04025 A

16

ompuChem	Project Name: Dayton Thermal Products	Consultant: Leggette, Brashears & Graham	
1 Madison Avenue	Site Location: Dayton OH	Address: 1210 West County Rd E	
ry, NC 27513	Site Code: SCC301	St. Paul MN 55112	
one Number: 1-800-833-5097	RFA Number: YGGP990021S	Consultant PM: Ken Vogel	
x Number: (919) 379-4050	Chrysler PM: Gary Stanczuk	Phone: (651) 490-1405	Fax: (651) 490-1066

urn-around Time Request:
1 calendar hrs.
3 calendar hrs.
) days
days

Data Package Deliverables: (circle)
Chrysler Level 1
Chrysler Level 2
Other (specify):

Matrix Codes
S - Soil
SW - Surface Water
GW - Groundwater
A - Air
Sed. - Sediment
O - Other (specify) Lab Pure Water Carboy 5

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	4 oz glass, none TCL VOCs 52EC	4 oz glass, none TCLP VOCs Cat + hold								Lab Use Only: Volatiles pH <2	Metals pH < 2	Cyanide pH > 12	Other ___	Remarks
DP-7 0.5-4.5	3/14/99	14:40	G	S	1	X	X		Rec'd 2-4oz jars 3-16-99										PID = 32 ppm
DP-8 0.5-4.5		15:05	G		1	X													" 18 "
DP-9 0.5-4.5		15:25			1	X													NA
DP-10 0.5-4.5		15:35			1	X			Rec'd 3-4oz jars 3-16-99										PID = 25 MS/MSD
DP-11 0.5-4.5		15:45			1	X													" 2 "
DP-12 0.5-4.5		16:05			1	X													" 2 "
EDP031499		16:00		O	2	X													
TO31499	3/14/99			O					Rec'd 2-40ml vials 3-16-99										Trip Blank Carboy 5

ampler(s)	Bottles Relinquished under Airbill No.			Samples Relinquished under Airbill No. 3079839019 4C		Temperature (corrected) 2 C
David Strand	Relinquished by:	Date: 3/15/99	Time: FedEx	Received by:	Date:	Time:	Custody Seal Intact? Yes No
Mike Plante	Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact? Yes No
ooler ID # ~~NA~~ 206	Relinquished by:	Date:	Time:	Received for Laboratory by: Glenn Dorn	Date: 3/16/99	Time: 7:25am	Custody Seal Intact? Yes No
RFA sampling complete? Yes No						

Chrysler Corporation 800 Chrysler Drive, CIMS 482-00-51, Auburn Hills, Michigan 48326-2757

Distribution: White copy: Data package Yellow : Retained by laboratory Pink: Retained by sampler

SDG 215B

Revision No. 1
Dated September 23, 1997

CompuChem

WATER BATCH SHEET

RFA 2.15
sublist: TCL
spike: FULL

FULL SPIKES

Date Batched 3/16/99
Case 34180.21502
Instrument Code

LINKER W82608
TAT 10 SOW

	CCN	CLIENT ID	QC SAMPLE TYPE	QC SAMPLE ORIGINAL	pH	TIME	DATE RUN	INST. #	OPERATOR	H/T	VOLUME/ INSTRUCTIONS	SCREEN BOTTLE #	ANALYSIS BOTTLE #
1)	931510	EDP031499			1	1933	3-18-99	51	2331	7/25	RN	of	of
2)	931511	T031499 ~~T031499~~ KM3/16/99			1	2006	↓	↓	↓	↓	↓	of	of
3)	931579	VLCS82	LCS		–	1846.	3-18-99	51	2331			of	of
4)												of	of
5)												of	of
6)												of	of
7)												of	of
8)												of	of
9)												of	of
10)												of	of
11)												of	of
12)												of	of
13)												of	of
14)												of	of
15)												of	of
16)												of	of
17)												of	of
18)												of	of
19)												of	of
20)												of	of
21)												of	of
22)												of	of
23)												of	of

56

Relinquished By Ref # 2 Date 3-18-99 Received By [illegible] Date 3-18-99
Relinquished By [illegible] Date 3-18-99 Received By Ref. # 2 Date 3-18-99
Relinquished By Date Received By Date

Log Page Updated

CompuChem

WATER BATCH SHEET

RFA 215
sublist: TCL
spike: FULL

FULL SPIKES

Date Batched 3/15/99
Case 34180.21502
Instrument Code ∞

LINKER W8260B

TAT 10 SOW

	CCN	CLIENT ID	QC SAMPLE TYPE	QC SAMPLE ORIGINAL	pH	TIME	DATE RUN	INST. #	OPERATOR	H/T	VOLUME/ INSTRUCTIONS	SCREEN BOTTLE #	ANALYSIS BOTTLE #
1)	931308	EMW031199			1	1752	3.18.99	57	2331	3/25	RN	of	of
2)	931311	TO31199			1	1824	↓	↓	↓	↓	↓	of	of
3)	931462	VLCS79	LCS		–	1702	03.18.99	57	2347			of	of
4)	931308R1					1905	↓	↓	2331		RN	of	of
5)												of	of
6)												of	of
7)												of	of
8)												of	of
9)												of	of
10)												of	of
11)												of	of
12)												of	of
13)												of	of
14)												of	of
15)												of	of
16)												of	of
17)												of	of
18)												of	of
19)												of	of
20)												of	of
21)												of	of
22)												of	of
23)												of	of

356

Relinquished By Ref 2 Date 03.18.99 Received By KP Date ~~03.17.99~~ 03.18.99
Relinquished By KP Date 03.18.99 Received By [signature] Date 3-18-99
Relinquished By [signature] Date 3-18-99 Received By Ref # 2 Date 3-18-99

Log Page Updated

INTERNAL CHAIN-OF-CUSTODY

Laboratory: VOA

Requested By: KM

Water ✓ Soil ____ P.E. ____

Date: 3/15/99

Shift: (1) 2 Sat

circle one

EPA ____ Commercial ✓

	CCN	RECEIPT DATE	PRES.	PARAMETER	RECEIVING USE ONLY BOTTLE NUMBER
1	931308	3/12			1, 2 of 2
2	J 311	J			1, 2 of 2
3					of
4					of
5					of
6					of
7					of
8					of
9					of
10					of
11					of
12					of
13					of
14					of
15					of
16					of
17					of
18					of
19					of
20					of

Relinquished By: [illegible] Date: 3/15/99

Received By: ____ Date: ____

Relinquished By: ____ Date: ____

Received By: ____ Date: ____

Comments:

CompuChem Receiving Log

Client: LBG/CHRYSLER
Order #: 34180
Project: RFA 215
Quote #: 99-7238
Account #: 500944

Received on: 3/12/99 # of COC's: 1
Delivered by: FED-EX
Freight #: 810525280920
Subcontract Y / (N)
TAT: Verbal N/A Hardcopy 10 day

PPS / (RFA #) 215 Page 1 of 1
Lab Instructions: TCL-VOCs
*MS/MSD

	SDG	REQ	SAMPLE ID	CCN	AMOUNT / CONTAINER	PARAMETER	ANALYSIS CODE	LINE ITEM	SAMPLE DATE	MX	pH
1	21501	1	MW-21S2-4	931300	1-4oz. jar	VOC 8260	~~1356~~ 1357	3, 8	3/10/99	SO	NA
2		2	MW-21S8-10	931303							
3		3	MW-21S18-20	931304							
4		4	MW-22S5-7	931305		3/12/99			3/11/99		
5		5	* MW-22S10-12	931306	3-4oz. jars.						
6		6	MW-22S19-21	931307	1-4oz. jar						
7	21502	7	EMW031199	931308	2-40ml V		1356	1		WA	
8		8	TO31199	931311	2-40ml V						
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

Logged In By: Kelly Dorey
Order Entered By: Melissa Stein
Cyanide samples checked for sulfide and chlorine Y / (NA)
Received in good condition (Y) / N
Holding Blank(s): Counter / Page ____ / ____ CCN's ____ / ____
Temperature(s) 2.0 °C

CompuChem Receiving Log

Client: Chrysler / LBG
Order #: 34180
Project: RFA215
Quote #: 99-7238
Account #: 500944

Received on: 3-16-99 # of COC's: 2
Delivered by: Federal Express
Freight #: 8099839 01940
Subcontract Y / (N)
TAT: Verbal N/A Hardcopy 10 day

PPS / (RFA #) 215 Page 1 of 2
Lab Instructions: TCL - VOCs / TCLP Ext & hold VOCs
* MS/MSD

	SDG	REQ	SAMPLE ID	CCN	AMOUNT / CONTAINER	PARAMETER	ANALYSIS CODE	LINE ITEM	SAMPLE DATE	MX	pH
1	21501	11	MW-23S-20-22	931492	1-4oz	VOC	1357, 286	3, 8	3/12/99	50	NA
2		12	TB-21-3-5	931493					3/13/99		
3		13	TB-21-9-11	931494							
4		14	TB-21-15-17	931495							
5		15	DP-1-.5-4.5	496					3/14/99		
6		16	DP-2-.5-4.5	497							
7		17	DP-3-.5-4.5	498							
8		18	DP-4-.5-4.5	499							
9		19	DP-5-1-5	500							
10		20	DP-6-1-6	501							
11		21	DP-7-.5-4.5	502							
12		22	DP-8-.5-4.5	503							
13		23	DP-9-.5-4.5	504							
14		24	DP-10-.5-4.5*	505	3-4oz jars*						
15	21502	25	DP-11-.5-4.5	506	1-4oz jar						
16		26	DP-12-.5-4.5	509	1-4oz jar						
17	21502	27	EDP031499	510	2-40ml		1356	1		NA	
18		28	TB031499	511							
19	21515	29	DP-5-1-5	512	1-4oz	TCLP Ext & Hold VOC	456, 1141	5, 6		50	
20		30	DP-6-1-6	513							

Logged In By: Diane Ellmore & Glenn Hare
Order Entered By: Diane Ellmore
Cyanide samples checked for sulfide and chlorine Y / (NA)
Received in good condition (Y) / N
Holding Blank(s): Counter / Page ____ / ____ CCN's ____ / ____
Temperature(s) 2 °C

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

EDP031499

Project:

Date Sampled: 03/14/99

Lab Code: COMPU Case No.: 34180 SAS No.: SDG No.: 21502

Matrix: (soil/water) WATER

Lab Sample ID: 931510

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: CN031510B51.D

Level: (low/med) LOW

Date Received: 03/16/99

% Moisture: not dec. _____

Date Analyzed: 03/18/99

GC Column:SP624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____(uL)

Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	0.5		U
75-01-4	Vinyl Chloride	0.5		U
75-00-3	Chloroethane	0.5		U
75-09-2	Methylene Chloride	0.5	1	B
75-35-4	1,1-Dichloroethene	0.5		U
75-34-3	1,1-Dichloroethane	0.5		U
67-66-3	Chloroform	0.5		U
107-06-2	1,2-Dichloroethane	0.5		U
71-55-6	1,1,1-Trichloroethane	0.5		U
56-23-5	Carbon Tetrachloride	0.5		U
75-27-4	Bromodichloromethane	0.5		U
10061-01-5	cis-1,3-Dichloropropene	0.5		U
79-01-6	Trichloroethene	0.5		U
124-48-1	Dibromochloromethane	0.5		U
79-00-5	1,1,2-Trichloroethane	0.5		U
71-43-2	Benzene	0.5		U
10061-02-6	trans-1,3-Dichloropropene	0.5		U
75-25-2	Bromoform	0.5		U
127-18-4	Tetrachloroethene	0.5		U
79-34-5	1,1,2,2-Tetrachloroethane	0.5		U
108-88-3	Toluene	0.5		U
108-90-7	Chlorobenzene	0.5		U
100-41-4	Ethylbenzene	0.5		U
100-42-5	Styrene	0.5		U
78-87-5	1,2-Dichloropropane	0.5		U
74-87-3	Chloromethane	0.5		U
75-15-0	Carbon disulfide	0.5		U
67-64-1	Acetone	2		U
108-10-1	4-Methyl-2-pentanone	2		U
591-78-6	2-hexanone	2		U
78-93-3	2-butanone	2		U
156-60-5	trans-1,2-Dichloroethene	0.5		U
156-59-2	cis-1,2-Dichloroethene	0.5		U

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

EDP031499

Project:

Date Sampled: 03/14/99

Lab Code: COMPU Case No.: 34180 SAS No.: SDG No.: 21502

Matrix: (soil/water) WATER

Lab Sample ID: 931510

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: CN031510B51.D

Level: (low/med) LOW

Date Received: 03/16/99

% Moisture: not dec. _____

Date Analyzed: 03/18/99

GC Column:SP624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____(uL)

Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	0.5		U

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

EMW031199

Project:

Date Sampled: 03/11/99

Lab Code: COMPU Case No.: 34180 SAS No.: SDG No.: 21502

Matrix: (soil/water) WATER

Lab Sample ID: 931308

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: CR031308A57.D

Level: (low/med) LOW

Date Received: 03/12/99

% Moisture: not dec. _____

Date Analyzed: 03/18/99

GC Column:SP624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____(uL)

Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	0.5		U
75-01-4	Vinyl Chloride	0.5		U
75-00-3	Chloroethane	0.5		U
75-09-2	Methylene Chloride	0.5	0.4	JB
75-35-4	1,1-Dichloroethene	0.5		U
75-34-3	1,1-Dichloroethane	0.5		U
67-66-3	Chloroform	0.5		U
107-06-2	1,2-Dichloroethane	0.5		U
71-55-6	1,1,1-Trichloroethane	0.5		U
56-23-5	Carbon Tetrachloride	0.5		U
75-27-4	Bromodichloromethane	0.5		U
10061-01-5	cis-1,3-Dichloropropene	0.5		U
79-01-6	Trichloroethene	0.5		U
124-48-1	Dibromochloromethane	0.5		U
79-00-5	1,1,2-Trichloroethane	0.5		U
71-43-2	Benzene	0.5		U
10061-02-6	trans-1,3-Dichloropropene	0.5		U
75-25-2	Bromoform	0.5		U
127-18-4	Tetrachloroethene	0.5		U
79-34-5	1,1,2,2-Tetrachloroethane	0.5		U
108-88-3	Toluene	0.5		U
108-90-7	Chlorobenzene	0.5		U
100-41-4	Ethylbenzene	0.5		U
100-42-5	Styrene	0.5		U
78-87-5	1,2-Dichloropropane	0.5		U
74-87-3	Chloromethane	0.5		U
75-15-0	Carbon disulfide	0.5		U
67-64-1	Acetone	2		U
108-10-1	4-Methyl-2-pentanone	2		U
591-78-6	2-hexanone	2		U
78-93-3	2-butanone	2		U
156-60-5	trans-1,2-Dichloroethene	0.5		U
156-59-2	cis-1,2-Dichloroethene	0.5		U

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

EMW031199

Project:

Date Sampled: 03/11/99

Lab Code: COMPU Case No.: 34180 SAS No.: SDG No.: 21502

Matrix: (soil/water) WATER

Lab Sample ID: 931308

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: CR031308A57.D

Level: (low/med) LOW

Date Received: 03/12/99

% Moisture: not dec. _____

Date Analyzed: 03/18/99

GC Column:SP624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____(uL)

Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	0.5		U

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

T031199

Project:

Date Sampled: 03/11/99

Lab Code: COMPU Case No.: 34180 SAS No.: SDG No.: 21502

Matrix: (soil/water) WATER

Lab Sample ID: 931311

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: CN031311A57.D

Level: (low/med) LOW

Date Received: 03/12/99

% Moisture: not dec. _____

Date Analyzed: 03/18/99

GC Column:SP624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____(uL)

Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	0.5		U
75-01-4	Vinyl Chloride	0.5		U
75-00-3	Chloroethane	0.5		U
75-09-2	Methylene Chloride	0.5	0.6	B
75-35-4	1,1-Dichloroethene	0.5		U
75-34-3	1,1-Dichloroethane	0.5		U
67-66-3	Chloroform	0.5		U
107-06-2	1,2-Dichloroethane	0.5		U
71-55-6	1,1,1-Trichloroethane	0.5		U
56-23-5	Carbon Tetrachloride	0.5		U
75-27-4	Bromodichloromethane	0.5		U
10061-01-5	cis-1,3-Dichloropropene	0.5		U
79-01-6	Trichloroethene	0.5		U
124-48-1	Dibromochloromethane	0.5		U
79-00-5	1,1,2-Trichloroethane	0.5		U
71-43-2	Benzene	0.5		U
10061-02-6	trans-1,3-Dichloropropene	0.5		U
75-25-2	Bromoform	0.5		U
127-18-4	Tetrachloroethene	0.5		U
79-34-5	1,1,2,2-Tetrachloroethane	0.5		U
108-88-3	Toluene	0.5		U
108-90-7	Chlorobenzene	0.5		U
100-41-4	Ethylbenzene	0.5		U
100-42-5	Styrene	0.5		U
78-87-5	1,2-Dichloropropane	0.5		U
74-87-3	Chloromethane	0.5		U
75-15-0	Carbon disulfide	0.5		U
67-64-1	Acetone	2		U
108-10-1	4-Methyl-2-pentanone	2		U
591-78-6	2-hexanone	2		U
78-93-3	2-butanone	2		U
156-60-5	trans-1,2-Dichloroethene	0.5		U
156-59-2	cis-1,2-Dichloroethene	0.5		U

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

T031199

Project:

Date Sampled: 03/11/99

Lab Code: COMPU Case No.: 34180 SAS No.: SDG No.: 21502

Matrix: (soil/water) WATER

Lab Sample ID: 931311

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: CN031311A57.D

Level: (low/med) LOW

Date Received: 03/12/99

% Moisture: not dec. _____

Date Analyzed: 03/18/99

GC Column:SP624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____(uL)

Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	0.5		U

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

T031499

Project:

Date Sampled: 03/14/99

Lab Code: COMPU Case No.: 34180 SAS No.: SDG No.: 21502

Matrix: (soil/water) WATER

Lab Sample ID: 931511

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: CN031511B51.D

Level: (low/med) LOW

Date Received: 03/16/99

% Moisture: not dec. _____

Date Analyzed: 03/18/99

GC Column:SP624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____(uL)

Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	0.5		U
75-01-4	Vinyl Chloride	0.5		U
75-00-3	Chloroethane	0.5		U
75-09-2	Methylene Chloride	0.5	0.6	B
75-35-4	1,1-Dichloroethene	0.5		U
75-34-3	1,1-Dichloroethane	0.5		U
67-66-3	Chloroform	0.5		U
107-06-2	1,2-Dichloroethane	0.5		U
71-55-6	1,1,1-Trichloroethane	0.5		U
56-23-5	Carbon Tetrachloride	0.5		U
75-27-4	Bromodichloromethane	0.5		U
10061-01-5	cis-1,3-Dichloropropene	0.5		U
79-01-6	Trichloroethene	0.5		U
124-48-1	Dibromochloromethane	0.5		U
79-00-5	1,1,2-Trichloroethane	0.5		U
71-43-2	Benzene	0.5		U
10061-02-6	trans-1,3-Dichloropropene	0.5		U
75-25-2	Bromoform	0.5		U
127-18-4	Tetrachloroethene	0.5		U
79-34-5	1,1,2,2-Tetrachloroethane	0.5		U
108-88-3	Toluene	0.5		U
108-90-7	Chlorobenzene	0.5		U
100-41-4	Ethylbenzene	0.5		U
100-42-5	Styrene	0.5		U
78-87-5	1,2-Dichloropropane	0.5		U
74-87-3	Chloromethane	0.5		U
75-15-0	Carbon disulfide	0.5		U
67-64-1	Acetone	2		U
108-10-1	4-Methyl-2-pentanone	2		U
591-78-6	2-hexanone	2		U
78-93-3	2-butanone	2		U
156-60-5	trans-1,2-Dichloroethene	0.5		U
156-59-2	cis-1,2-Dichloroethene	0.5		U

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

T031499

Project:

Date Sampled: 03/14/99

Lab Code: COMPU Case No.: 34180 SAS No.: SDG No.: 21502

Matrix: (soil/water) WATER

Lab Sample ID: 931511

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: CN031511B51.D

Level: (low/med) LOW

Date Received: 03/16/99

% Moisture: not dec. _____

Date Analyzed: 03/18/99

GC Column:SP624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____(uL)

Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	0.5		U

FORM I VOA