8A

VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.PW

Lab Code : PEL Case No.: SAS No: SDG No.: 2509451

Lab File ID (Standard): 50PPB.D Date Analyzed: 6/3/2008

Instrument ID: VMS03 Time Analyzed: 9:01

GC Column: DB-624 ID: 0.18 (mm)

Matrix: (soil/water) W Heated Purge: (Y/N) No

		IS1 AREA	#	RT	IS2 AREA	#	RT	IS3 AREA	#	RT
	MID CAL STD	931353		10.56	491435		12.97	1230755		7.25
	UPPER LIMIT	1862706		11.06	982870		13.47	2461510		7.75
	LOWER LIMIT	465676.5		10.06	245717.5		12.47	615377.5		6.75
	EPA SAMPLE NO.									
1	060908LCSA34	704466		10.56	384265		12.98	898126		7.26
2	060908LCSA34D	709212		10.56	389657		12.98	907199		7.26
3	060908BLKA34	708627		10.57	373281		12.98	901039		7.26
4	MW-112-W-00	699824		10.56	362130		12.98	887571		7.26
5	MW-110-W-00DL1	676022		10.56	364848		12.98	877522		7.26
6	MW-107-W-00	691383		10.56	365109		12.98	871927		7.26
7	MW-115-W-00	684753		10.56	369015		12.98	873734		7.26
8	FD-W-060508A	681013		10.56	366591		12.98	864727		7.26
9	TB-060508	688399		10.56	364144		12.98	860217		7.26
10	MW-110-W-00	670817		10.56	344529		12.98	855652		7.26

IS1 = Chlorobenzene d5

IS2 = 1,4-Dichlorobenzene-d4

IS3 = Fluorobenzene

UPPER LIMIT = +100% of internal standard area.
LOWER LIMIT = -50% of internal standard area

Column used to flag internal standard area values with an asterisk

260608 1138

FORM VIII

3

VOLATILE ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.

060908LCSA34

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.P

Lab Code : PEL Case No.: SAS No: SDG No.: 2509451

COMPOUND	SPIKE ADDED UG/L	LCS CONCENTRATION UG/L	LCS % REC #	LCS % RPD	QC LIMITS RPD	QC LIMITS REC.
Vinyl chloride	20	21.3	106.0		13.0	60 - 124
trans-1,2-Dichloroethene	20	22.2	111.0		11.0	79 - 121
cis-1,2-Dichloroethene	20	20.2	101.0		11.0	75 - 123
1,2-Dichloroethane	20	22.6	113.0		7.0	83 - 114
Trichloroethene	20	19.8	99.0		11.0	76 - 123
Tetrachloroethene	20	19.8	99.0		9.0	70 - 130

Spike Recovery: 0 out of 6 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS:

260608 1138

Form III

3

VOLATILE ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.

060908LCSA34D

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.P

Lab Code : PEL Case No.: SAS No: SDG No.: 2509451

COMPOUND	SPIKE ADDED UG/L	LCS CONCENTRATION UG/L	LCS % REC #	LCS % RPD	QC LIMITS RPD	QC LIMITS REC.
Vinyl chloride	20	20.2	101.0	5.3	13.0	60 - 124
trans-1,2-Dichloroethene	20	21.1	106.0	5.1	11.0	79 - 121
cis-1,2-Dichloroethene	20	19.3	96.5	4.6	11.0	75 - 123
1,2-Dichloroethane	20	22.6	113.0	0.0	7.0	83 - 114
Trichloroethene	20	19	95.0	4.1	11.0	76 - 123
Tetrachloroethene	20	18.6	93.0	6.2	9.0	70 - 130

Spike Recovery: 0 out of 6 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS:

260608 1138

Form III

Standards Data

260608 1138

VOLATILE ORGANIC INITIAL CALIBRATION DATA

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.PW

Lab Code : PEL Case No.: SAS No: SDG No.: 2509451

Instrument ID: VMS03 Calibration Date Begin: 06/03/08 End: 06/03/08

GC Column: DB-624 ID: 0.18 (mm) Calibration Time Begin: 701 End: 949

Min RRF for SPCC(#) = 0.1 Max %RSD for CCC(*) = 30 %

LAB FILE ID: RRF1 =1PPB.D RRF2 =2PPB.D
RRF5 =5PPB.D RRF10 =10PPB.D RRF20 =20PPB.D

COMPOUND		RRF1	RRF2	RRF5	RRF10	RRF20	$\overline{RRF}$	%RSD OR R^2
Chloromethane	#	0.564	0.498	0.456	0.408	0.410		#
Vinyl chloride	*	0.351	0.354	0.323	0.288	0.281		*
1,1-Dichloroethene	*	0.515	0.519	0.486	0.508	0.480		*
trans-1,2-Dichloroethene		0.511	0.455	0.486	0.527	0.478		
1,1-Dichloroethane	#	0.651	0.578	0.574	0.625	0.548		#
cis-1,2-Dichloroethene		0.363	0.307	0.322	0.348	0.323		
Chloroform	*	0.613	0.520	0.552	0.590	0.520		*
1,2-Dichloroethane		0.454	0.416	0.432	0.469	0.416		
Trichloroethene		0.368	0.301	0.301	0.324	0.269		
1,2-Dichloropropane	*	0.389	0.346	0.346	0.387	0.345		*
Toluene	*	0.890	0.732	0.761	0.820	0.726		*
Tetrachloroethene		0.364	0.330	0.283	0.320	0.279		
Chlorobenzene	#	1.369	1.208	1.141	1.251	1.103		#
Ethylbenzene	*	0.761	0.618	0.611	0.665	0.595		*
Bromoform	#	0.237	0.183	0.202	0.235	0.201		#
1,1,2,2-Tetrachloroethane	#	1.000	0.884	0.863	0.967	0.821		#
Dibromofluoromethane(SURR)			0.306	0.261	0.284	0.251		
Toluene d8(SURR)			1.183	1.042	1.093	0.994		
4-Bromofluorobenzene(SURR)			1.236	1.035	1.095	1.016		
1,2-Dichloroethane-d4(SURR)			0.072	0.058	0.070	0.060		

260608 1138

FORM VI

VOLATILE ORGANIC INITIAL CALIBRATION DATA

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.PW

Lab Code : PEL Case No.: SAS No: SDG No.: 2509451

Instrument ID: VMS03 Calibration Date Begin: 06/03/08 End: 06/03/08

GC Column: DB-624 ID: 0.18 (mm) Calibration Time Begin: 701 End: 949

Min RRF for SPCC(#) = 0.1 Max %RSD for CCC(*) = 30 %

LAB FILE ID: RRF50 =50PPB.D RRF60 =60PPB.D
RRF80 =80PPB.D

COMPOUND		RRF50	RRF60	RRF80			$\overline{RRF}$	%RSD OR R^2	
Chloromethane	#	0.404	0.402	0.391			0.44154	13.8	#
Vinyl chloride	*	0.254	0.253	0.250			0.29425	0.99975	*
1,1-Dichloroethene	*	0.472	0.443	0.497			0.48993	5.2	*
trans-1,2-Dichloroethene		0.515	0.490	0.504			0.49585	4.7	
1,1-Dichloroethane	#	0.593	0.583	0.597			0.59359	5.3	#
cis-1,2-Dichloroethene		0.336	0.329	0.332			0.33256	5.2	
Chloroform	*	0.551	0.534	0.544			0.55289	6	*
1,2-Dichloroethane		0.445	0.423	0.429			0.43561	4.4	
Trichloroethene		0.292	0.286	0.288			0.30356	10	
1,2-Dichloropropane	*	0.370	0.354	0.369			0.36322	5	*
Toluene	*	0.781	0.758	0.775			0.78029	6.8	*
Tetrachloroethene		0.286	0.292	0.298			0.30662	9.6	
Chlorobenzene	#	1.099	1.123	1.126			1.17739	8	#
Ethylbenzene	*	0.594	0.606	0.607			0.63229	9	*
Bromoform	#	0.228	0.234	0.238			0.21974	9.7	#
1,1,2,2-Tetrachloroethane	#	0.830	0.824	0.832			0.8774	7.9	#
==========#									#
Dibromofluoromethane(SURR)		0.287	0.281	0.286			0.27937	6.5	
Toluene d8(SURR)		1.122	1.084	1.105			1.0889	5.5	
4-Bromofluorobenzene(SURR)		1.071	1.076	1.077			1.08658	6.5	
1,2-Dichloroethane-d4(SURR)		0.067	0.064	0.065			0.06521	7.7	

7SSC

VOLATILE ORGANIC SECONDARY SOURCE CALIBRATION DATA

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.PW

Lab Code : PEL Case No.: SAS No: SDG No.: 2509451

Instrument ID: VMS03 CalibrationDate: 06/03/08 Time: 1051

CCV ID: SSC609724 Lab File ID: SEC32.D Init. Calib. Date Begin: 06/03/08 End: 06/03/08

GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) NO

Min RRF for SPCC(#) = 0.1 Max %D for CCC(*) = 20 %

COMPOUND		Expected	Found	%D / %Drift	Curve Type	
Chloromethane	#	0.44154	0.38889	11.9	AVRG	#
Vinyl chloride	*	50	47.2	5.6	2ORD	*
1,1-Dichloroethene	*	0.48993	0.49066	0.1	AVRG	*
trans-1,2-Dichloroethene		0.49585	0.49172	0.8	AVRG	
1,1-Dichloroethane	#	0.59359	0.57687	2.8	AVRG	#
cis-1,2-Dichloroethene		0.33256	0.32223	3.1	AVRG	
Chloroform	*	0.55289	0.52246	5.5	AVRG	*
1,2-Dichloroethane		0.43561	0.40941	6.0	AVRG	
Trichloroethene		0.30356	0.28042	7.6	AVRG	
1,2-Dichloropropane	*	0.36322	0.35491	2.3	AVRG	*
Toluene	*	0.78029	0.76172	2.4	AVRG	*
Tetrachloroethene		0.30662	0.29144	5.0	AVRG	
Chlorobenzene	#	1.17739	1.109	5.8	AVRG	#
Ethylbenzene	*	0.63229	0.60668	4.1	AVRG	*
Bromoform	#	0.21974	0.22194	1.0	AVRG	#
1,1,2,2-Tetrachloroethane	#	0.8774	0.81195	7.5	AVRG	#
==========						
Dibromofluoromethane(SURR)		0.27937	0.27305	2.3	AVRG	
Toluene d8(SURR)		1.0889	1.064	2.3	AVRG	
4-Bromofluorobenzene(SURR)		1.08658	1.067	1.8	AVRG	
1,2-Dichloroethane-d4(SURR)		0.06521	0.06413	1.7	AVRG	

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FORM VII

7

VOLATILE ORGANIC CONTINUING CALIBRATION DATA

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.PW

Lab Code : PEL Case No.: SAS No: SDG No.: 2509451

Instrument ID: VMS03 CalibrationDate: 06/09/08 Time: 1739

CCV ID: CCV611164 Lab File ID: 50CCV34.D Init. Calib. Date Begin: 06/03/08 End: 06/03/08

GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) NO

Min RRF for SPCC(#) = 0.1 Max %D for CCC(*) = 20 %

COMPOUND		Expected	Found	%D / %Drift	Curve Type	
Chloromethane	#	0.44154	0.42211	4.4	AVRG	#
Vinyl chloride	*	50	53.8	7.6	2ORD	*
1,1-Dichloroethene	*	0.48993	0.55604	13.5	AVRG	*
trans-1,2-Dichloroethene		0.49585	0.53644	8.2	AVRG	
1,1-Dichloroethane	#	0.59359	0.63157	6.4	AVRG	#
cis-1,2-Dichloroethene		0.33256	0.33761	1.5	AVRG	
Chloroform	*	0.55289	0.59779	8.1	AVRG	*
1,2-Dichloroethane		0.43561	0.51983	19.3	AVRG	
Trichloroethene		0.30356	0.29226	3.7	AVRG	
1,2-Dichloropropane	*	0.36322	0.36603	0.8	AVRG	*
Toluene	*	0.78029	0.76464	2.0	AVRG	*
Tetrachloroethene		0.30662	0.28345	7.6	AVRG	
Chlorobenzene	#	1.17739	1.071	9.0	AVRG	#
Ethylbenzene	*	0.63229	0.57296	9.4	AVRG	*
Bromoform	#	0.21974	0.24514	11.6	AVRG	#
1,1,2,2-Tetrachloroethane	#	0.8774	0.79378	9.5	AVRG	#
==========						
Dibromofluoromethane(SURR)		0.27937	0.30374	8.7	AVRG	
Toluene d8(SURR)		1.0889	1.107	1.7	AVRG	
4-Bromofluorobenzene(SURR)		1.08658	1.058	2.6	AVRG	
1,2-Dichloroethane-d4(SURR)		0.06521	0.06732	3.2	AVRG	

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FORM VII

Inorganics

260608 1138

Inorganic Data Qualifiers

C (Concentration) Qualifier - Entries and their meanings are:

B The reported value obtained was less than the RL but greater than or equal to the MDL.

E The reported value obtained was over calibration or linear range.

U The reported value obtained was less than the MDL or was not detected.

Q Qualifier - Entries and their meanings are:

U The reported value is estimated because of interference. An explanatory comment must be included under "Comments" on the Cover Page if the problem applies to all samples in this data package or on the individual FORM 1 if it is an isolated problem.

M Duplicate injection precision was not met (two analyses of the same sample did not agree).

N Spiked sample recovery not within control limits.

E Serial Dilution percent difference not within control limits.

S The reported value was determined by the Method of Standard Additions (MSA).

W Post-digestion spike for Furnace AA analysis is out of control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.

***** Duplicate analysis not within control limits.

+ Correlation coefficient for the MSA is less than 0.995.

X The data is flagged as rejected by analyst utilizing analytical judgement.

Entering "S", "W", or "+" is mutually exclusive. No combination of these qualifiers can apear in the same field.

M (Method) Qualifier - Enter one of the following:

P ICP
A Flame AA
F Furnace AA
CV Manual Cold Vapor AA
TC Total Organic Carbon
AS Semi-Automated Spectrophotometric
CA Midi-Distillation Spectrophotometric
T Titrimetric
C Manual Spectrophotometric
GR Gravimetric
NR Analyte was not required by your lab

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Inorganic Sample ID Qualifiers

The qualifiers that may be appended to the lab sample ID and/or the client sample ID for inorganic analysis are defined below:

DL Diluted reanalysis. Indicates that the results of the original analysis of the sample contained compounds that exceeded the calibration range. The sample was diluted and reanalyzed. May be followed by a digit to indicate multiple dilutions of the sample. The results of more than one diluted reanalysis may be reported.

R Reanalysis. The extract was reanalyzed without re-extraction. The "R" is not used if the sample was also re-extracted. May be followed by a digit to indicate multiple reanalysis of the sample at the same dilution.

RE Re-extracted. The extract was reanalyzed with re-extraction. May be followed by a digit to indicate multiple re-extraction of the same sample at the same dilution.

MS Matrix spike (may be followed by a digit to indicate multiple matrix within a sample set).

SD Matrix spike duplicate (may be followed by a digit to indicate multiple matrix spike duplicate within a sample set).

A Post Digestion Spike.

L Serial Dilution.

260608 1138

METALS DATA PACKAGE
DISSOLVED

260608 1138

CASE NARRATIVE
METALS
DISSOLVED

PEL Lab Reference No./SDG: 2509451

Client: CH2M Hill

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this package.

II. HOLDING TIMES

A. Sample Preparation: All holding times were met.

B. Sample Analysis: All holding times were met.

III. METHOD

Analyses were performed according to the PEL, a Division of Spectrum Analytical, Standard Operating Procedures and EPA Method 6010B for ICP metals.

IV. PREPARATION

Water samples were prepared according to PEL Laboratory's Standard Operating Procedures and EPA Method 3005A.

V. ANALYSIS

A. Calibration:

All acceptance criteria were met.

B. Blanks:

1. Calibration Blanks:

All acceptance criteria were met.

2. Method Blanks:

All acceptance criteria were met.

C. Spikes:

1. Laboratory Control Spikes (LCS):

An LCS/LCSD set was analyzed.
All percent recovery and relative percent difference (RPD) criteria were met.

2. Post Digestion Spike:

All acceptance criteria were met.

3. Matrix Spike/Matrix Spike Duplicate Samples (MS/SD):

No spikes requested by client.

CASE NARRATIVE
METALS
DISSOLVED

PEL Lab Reference No./SDG: 2509451

Client: CH2M Hill

D. Duplicate:

No sample duplicates are reported with this method. (Spike duplicates are referenced above in section C. Spikes.)

E. Serial Dilution:

All acceptance criteria were met.

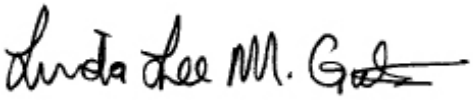
F. ICP Interference Check Samples:

All acceptance criteria were met.

G. Samples:

Sample analysis proceeded normally.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and PEL, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as, verified by the following signature.



SIGNED: **DATE: 06/25/2008**

W:\Narratives\Metals\2509\2509451_6010_D.doc

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COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.

Lab Code : PEL Case No.: SDG No.: 2509451

SOW No.:

EPA Sample No	Lab Sample ID
MW-110-W-00	250945102
MW-107-W-00	250945103
MW-115-W-00	250945104
FD-W-060508B	250945106

Were ICP interelement corrections applied?	Yes/No	Yes
Were ICP background corrections applied?	Yes/No	Yes
If yes - were raw data generated before application of background corrections?	Yes/No	No

Comments:

260608 1138

Sample Data

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U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

MW-110-W-00

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.PW

Lab Code : PEL Case No.: SAS No: SDG No.: 2509451

Matrix: WATER Lab Sample ID: 250945102

Level:(low/med) LOW Date Received: 6/6/2008

PercentSolids: 0 Station ID:

Dissolved

CONCENTRATION UNITS: UG/L

CAS NO.	ANALYTE	Concentration	C	Q	M
7439-89-6	Iron	5.5	U		P
7439-96-5	Manganese	283			P

Color Before: _____ Clarity Before: _____ Texture :_____

Color After : _____ Clarity After: _____ Artifacts:_____

Comments:

260608 1138

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INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

MW-107-W-00

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.PW

Lab Code : PEL Case No.: SAS No: SDG No.: 2509451

Matrix: WATER Lab Sample ID: 250945103

Level:(low/med) LOW Date Received: 6/6/2008

PercentSolids: 0 Station ID:

Dissolved

CONCENTRATION UNITS: UG/L

CAS NO.	ANALYTE	Concentration	C	Q	M
7439-89-6	Iron	5.5	U		P
7439-96-5	Manganese	2010			P

Color Before: _____ Clarity Before: _____ Texture :_____

Color After : _____ Clarity After: _____ Artifacts:_____

Comments:

260608 1138

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

MW-115-W-00

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.PW

Lab Code : PEL Case No.: SAS No: SDG No.: 2509451

Matrix: WATER Lab Sample ID: 250945104

Level:(low/med) LOW Date Received: 6/6/2008

PercentSolids: 0 Station ID:

Dissolved

CONCENTRATION UNITS: UG/L

CAS NO.	ANALYTE	Concentration	C	Q	M
7439-89-6	Iron	5.5	U		P
7439-96-5	Manganese	0.35	U		P

Color Before: _____ Clarity Before: _____ Texture :_____

Color After : _____ Clarity After: _____ Artifacts:_____

Comments:

260608 1138

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

FD-W-060508B

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.PW

Lab Code : PEL Case No.: SAS No: SDG No.: 2509451

Matrix: WATER Lab Sample ID: 250945106

Level:(low/med) LOW Date Received: 6/6/2008

PercentSolids: 0 Station ID:

Dissolved

CONCENTRATION UNITS: UG/L

CAS NO.	ANALYTE	Concentration	C	Q	M
7439-89-6	Iron	5.5	U		P
7439-96-5	Manganese	0.35	U		P

Color Before: _____ Clarity Before: _____ Texture :_____

Color After : _____ Clarity After: _____ Artifacts:_____

Comments:

260608 1138

QC Summary

260608 1138

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.PW

Lab Code : PEL Case No.: SAS No: SDG No.: 2509451

Initial Calibration Source: 24279

Continuing Calibration Source: 24290

Concentration Units: (UG/L)

Analyte	Initial Calibration			Continuing Calibration					
	True	Found	%R (1)	True	Found	%R (1)	Found	%R (1)	M
Iron	40000	41700.000	104.2	40000	40400.000	101.0	41100.000	102.8	P
Manganese	400	416.000	104.0	500	508.000	101.6	519.000	103.8	P

ICV IDs: P= ICV611358

CCV1 IDs: P= CCV611363

CCV2 IDs: P= CCV611377

(1) Control Limits: Mercury 80-120; Cyanide 85-115; Other Metals 90-110

ICV is Second Source

260608 1138

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2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.PW

Lab Code : PEL Case No.: SAS No: SDG No.: 2509451

Initial Calibration Source:

Continuing Calibration Source: 24290

Concentration Units: (UG/L)

Analyte	Initial Calibration			Continuing Calibration					
	True	Found	%R (1)	True	Found	%R (1)	Found	%R (1)	M
Iron				40000	41500.000	103.8	41200.000	103.0	P
Manganese				500	526.000	105.2	516.000	103.2	P

ICV IDs:

CCV1 IDs: P= CCV611404

CCV2 IDs: P= CCV611538

(1) Control Limits: Mercury 80-120; Cyanide 85-115; Other Metals 90-110

ICV is Second Source

260608 1138

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BLANKS

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.PW

Lab Code : PEL Case No.: SAS No: SDG No.: 2509451

Preparation Blank Matrix (water/soil): WATER

Preparation Blank Concentration Units (ug/L or mg/Kg): UG/L

Analyte	Initial Calib. Blank (UG/L)	C	Continuing Calibration Blank (UG/L)	C		C		C	Prepa-ration Blank	C	M
Iron	5.5	U	5.5	U	5.5	U	5.5	U	5.5	U	P
Manganese	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	P

ICB IDs: P= ICB611359

CCB1 IDs: P= CCB611364

CCB2 IDs: P= CCB611378

CCB3 IDs: P= CCB611405

260608 1138

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3

BLANKS

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.PW

Lab Code : PEL Case No.: SAS No: SDG No.: 2509451

Preparation Blank Matrix (water/soil):

Preparation Blank Concentration Units (ug/L or mg/Kg):

Analyte	Initial Calib. Blank (UG/L)	C	Continuing Calibration Blank (UG/L)	C		C		C	Prepa-ration Blank	C	M
Iron			5.5	U							P
Manganese			0.35	U							P

ICB IDs:

CCB1 IDs: P= CCB611539

CCB2 IDs:

CCB3 IDs:

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4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.PW

Lab Code : PEL Case No.: SAS No: SDG No.: 2509451

ICP ID#: ICAP2 ICSA Source: 23556

ICSAB Source: 23557

Concentration Units: UG/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Iron	225000	225000	229104.086	231921.999	103.1	229628.798	229164.976	101.9
Manganese	0	500	0.162	526.276	105.3	0.21	519.674	103.9

ICSA: ICS611361, ICS611375

ICSAB: ICS611362, ICS611376

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5B

POST DIGEST SPIKE SAMPLE RECOVERY

EPA Sample No.

250945004A

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.

Lab Code : PEL Case No.: SAS No: SDG No.: 2509451

Matrix: Water Level:(low/med) LOW

Dissolved

Concentration Units (ug/L or mg/kg): ug/L

Analyte	Control Limit %R	Spiked Sample	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Iron	80 - 120	57100.00		3061.21		50000	108.1		P
Manganese	80 - 120	522.00		2.20	B	500	104.0		P

Comments:

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DUPLICATES

EPA Sample No.

263904LCSD

Lab Name: PEL, Spectrum Analytical Contract: SLOP RI \ 364298.01.SL.RI.P

Lab Code : PEL Case No.: SAS No: SDG No.: 2509451

Matrix: WATER Level:(low/med) LOW

% Solids for Sample: 0 % Solids for Duplicate: 0

Dissolved

Concentration Units (mg/L or mg/kg): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Iron	20	52000		51900		0.2		P
Manganese	20	510		520		1.9		P

Comments:

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LABORATORY CONTROL SAMPLE

EPA Sample No.

263903LCS

Lab Name: PEL, Spectrum Analytical Contract: SLOP RI \ 364298.01.SL.RI.

Lab Code : PEL Case No.: SAS No: SDG No.: 2509451

Solid LCS Source:

Aqueous LCS Source: 24386, 24387

Dissolved

	Aqueous (UG/L)			Solid				
Analyte	True	Found	%R	True	Found	C	Limits	%R
Iron	50000	52000	104.0				-	
Manganese	500	510	102.0				-	

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LABORATORY CONTROL SAMPLE

EPA Sample No.

263904LCSD

Lab Name: PEL, Spectrum Analytical Contract: SLOP RI \ 364298.01.SL.RI.

Lab Code : PEL Case No.: SAS No: SDG No.: 2509451

Solid LCS Source:

Aqueous LCS Source: 24386, 24387

Dissolved

	Aqueous (UG/L)			Solid				
Analyte	True	Found	%R	True	Found	C	Limits	%R
Iron	50000	51900	103.8				-	
Manganese	500	520	104.0				-	

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SERIAL DILUTIONS

EPA Sample No.

MW-110-W-00L

Lab Name: PEL, Spectrum Analytical Contract: SLOP RI \ 364298.01.SL.RI.P

Lab Code : PEL Case No.: SAS No: SDG No.: 2509451

Matrix: Water Level:(low/med) LOW

Dissolved

Concentration Units (ug/L or mg/kg): ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Differ-ence	Q	M
Iron	2.46	U	27.50	U			P
Manganese	283.31		295.00		4.1		P

Comments:

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METHOD DETECTION LIMITS

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.PW

Lab Code : PEL Case No.: SAS No: SDG No.: 2509451

ICP ID Number : ICAP2

Furnace AA ID Number :

Analyte	Wave-length (nm)	Raw MDL (UG/L)	CRDL (UG/L)	MDL (UG/L)	Verification Date	M
Manganese	257.61	0.35	10	0.35	4/23/2008	P

Comments:

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METHOD DETECTION LIMITS

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.PW

Lab Code : PEL Case No.: SAS No: SDG No.: 2509451

ICP ID Number : ICAP2

Furnace AA ID Number :

Analyte	Wave-length (nm)	Raw MDL (UG/L)	CRDL (UG/L)	MDL (UG/L)	Verification Date	M
Iron	259.939	5.5	50	5.5	5/7/2008	P

Comments:

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11A

INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.PW

Lab Code : PEL Case No.: SAS No.: SDG No.: 2509451

ICP ID Number : ICAP2 Date: 12/11/2007

Analyte	Wave-length	Interelement Correction Factors for:													
		Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Li	Mg
Iron	259.939	-0.051265		-0.040540	-0.019325	0.047563		0.128037	0.031255	0.016378	-0.043303				-0.285532
Manganese	257.61														

Comments:

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11A

INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.PW

Lab Code : PEL Case No.: SAS No.: SDG No.: 2509451

ICP ID Number : ICAP2 Date: 12/11/2007

Analyte	Wave-length	Interelement Correction Factors for:												
		Mn	Mo	Na	Ni	Pb	Sb	Se	Sn	Sr	Ti	Tl	V	Zn
Iron	259.939	0.008761	-0.007914		0.021295		0.025267	-0.147912				0.027088	-0.101001	
Manganese	257.61					0.514043		0.637384				1.127690		

Comments:

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ICP LINEAR RANGES (SEMI-ANNUALLY)

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.PW

Lab Code : PEL Case No.: SAS No: SDG No.: 2509451

ICP ID NUMBER : ICAP2 DATE : 10/31/2007

Analyte	Integ. Time (sec.)	Concentration UG/L	M
Iron	0	400000	P
Manganese	0	5000	P

Comments:

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PREPARATION LOG

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.PW

Lab Code : PEL Case No.: SAS No: SDG No.: 2509451

Method : 6010

EPA Sample No:	Preparation Date	Weight (gram)	Volume (mL)
263902BLK	9 Jun 08		50
263903LCS	9 Jun 08		50
263904LCSD	9 Jun 08		50
FD-W-060508B	9 Jun 08		50
MW-107-W-00	9 Jun 08		50
MW-110-W-00	9 Jun 08		50
MW-115-W-00	9 Jun 08		50

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ANALYSIS RUN LOG

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.PW

Lab Code : PEL Case No.: SAS No: SDG No.: 2509451

Instrument ID Number : ICAP2 Method : P

Start Date : 6/11/2008 End Date : 6/11/2008

EPA Sample No.	D/F	Time	%R	Analytes																									
				AG	AL	AS	BA	BE	CA	CD	CN	CO	CR	CU	FE	HG	K	LI	MG	MN	MO	NA	NI	PB	SB	SE	SN	SR	TI	TL	V	ZN
CAL01	1	10:23													X					X												
CAL02	1	10:27													X																	
CAL03	1	10:32													X					X												
CAL04	1	10:36													X					X												
CAL05	1	10:40													X					X												
CAL06	1	10:44													X					X												
ICV611358	1	10:59													X					X												
ICB611359	1	11:03													X					X												
ZZZZZZ	1	11:07																														
ICSA	1	11:12													X					X												
ICSAB	1	11:23													X					X												
CCV611363	1	11:27													X					X												
CCB611364	1	11:31													X					X												
ZZZZZZ	1	11:37																														
ZZZZZZ	1	11:41																														
ZZZZZZ	1	11:45																														
ZZZZZZ	1	11:49																														
ZZZZZZ	5	11:54																														
ZZZZZZ	1	11:58																														
ZZZZZZ	1	12:02																														
ZZZZZZ	1	12:05																														
ZZZZZZ	1	12:09																														
ZZZZZZ	1	12:14																														
ICSA	1	12:18													X					X												
ICSAB	1	12:22													X					X												
CCV611377	1	12:27													X					X												
CCB611378	1	12:31													X					X												
263902BLK	1	12:35													X					X												
263903LCS	1	12:39													X					X												
263904LCSD	1	12:43													X					X												
ZZZZZZ	1	12:47																														
ZZZZZZ	5	12:52																														
ZZZZZZ	1	12:58																														
ZZZZZZ	1	13:02																														
250945004A	1	13:06													X					X												
ZZZZZZ	1	13:10																														

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ANALYSIS RUN LOG

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.PW

Lab Code : PEL Case No.: SAS No: SDG No.: 2509451

Instrument ID Number : ICAP2 Method : P

Start Date : 6/11/2008 End Date : 6/11/2008

EPA Sample No.	D/F	Time	%R	Analytes																										
				AG	AL	AS	BA	BE	CA	CD	CN	CO	CR	CU	FE	HG	K	LI	MG	MN	MO	NA	NI	PB	SB	SE	SN	SR	TI	TL	V	ZN
ZZZZZZ	1	13:14																														
CCV611404	1	13:19													X					X												
CCB611405	1	13:23													X					X												
ZZZZZZ	1	13:28																														
ZZZZZZ	1	13:32																														
ZZZZZZ	1	13:37																														
ZZZZZZ	1	13:41																														
ZZZZZZ	1	13:46																														
MW-110-W-00	1	13:50													X					X												
MW-110-W-00L	5	13:54													X					X												
MW-107-W-00	1	13:59													X					X												
MW-115-W-00	1	14:04													X					X												
FD-W-060508B	1	14:08													X					X												
CCV611538	1	14:13													X					X												
CCB611539	1	14:17													X					X												

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WET CHEMISTRY DATA PACKAGE
TOTALS

260608 1139

CASE NARRATIVE
Anions by Ion Chromatography

PEL Lab Reference No./SDG: 2509451

Client: CH2M Hill

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this package.

II. HOLDING TIMES

A. Sample Preparation: There is no preparation step for this method.

B. Sample Analysis: All holding time criteria were met.

III. METHOD

Analyses were performed according to EPA method 300.1 and the PEL, a Division of Spectrum Analytical, Standard Operating Procedure.

IV. PREPARATION

There is no preparation step for this method.

V. ANALYSIS

A. Calibration:

All acceptance criteria were met.

B. Blanks:

1. Calibration Blanks:

All acceptance criteria were met. No action required. The following ICB/CCB(s) had element concentrations below the RL:

ICB610885 was analyzed on 06/06/08 15:12. Blank was non-detect for all target analytes.

CCB610896 was analyzed on 06/06/08 20:14. Blank was non-detect for all target analytes.

ICB611662 was analyzed on 06/07/08 12:33. Blank was non-detect for all target analytes.

CCB611673 was analyzed on 06/07/08 17:34. Blank was non-detect for all target analytes.

2. Method Blanks:

All acceptance criteria were met.

CASE NARRATIVE
Anions by Ion Chromatography

PEL Lab Reference No./SDG: 2509451

Client: CH2M Hill

C. Spikes:

1. Laboratory Control Spikes (LCS):

An LCS/LCSD set was analyzed.
All percent recovery and relative percent difference (RPD) criteria were met.

2. Matrix Spike/Matrix Spike Duplicate Samples (MS/SD):

No spikes requested by client.

D. Duplicate:

No sample duplicates are reported with this method. (Spike duplicates are referenced above in section C. Spikes.)

E. Samples:

Sample analysis proceeded normally.
Sample MW-107-W-00 required a 1:5 dilution due to high concentration of the following analyte(s): Chloride and Sulfate.

Sample MW-110-W-00 required a 1:5 dilution due to high concentration of the following analyte(s): Sulfate.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and PEL, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as, verified by the following signature.

SIGNED: **DATE: 06/13/2008**

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COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.

Lab Code : PEL Case No.: SDG No.: 2509451

SOW No.:

EPA Sample No	Lab Sample ID
MW-110-W-00	250945102
MW-110-W-00DL1	250945102DL1
MW-107-W-00	250945103
MW-107-W-00DL1	250945103DL1
MW-115-W-00	250945104
FD-W-060508B	250945106

Comments:

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Sample Data

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INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

MW-110-W-00

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.PW

Lab Code : PEL Case No.: SAS No: SDG No.: 2509451

Matrix: WATER Lab Sample ID: 250945102

Level:(low/med) LOW Date Received: 6/6/2008

PercentSolids: 0 Station ID:

CONCENTRATION UNITS: MG/L

CAS NO.	ANALYTE	Concentration	C	Q	M
1-00-3	Chloride	35.2			IC
25-90-0	Nitrate	0.216			IC

Surrogate	Recovery	Control Limits	Qualifier
DCA	98.0	90 - 115	

Color Before: _____ Clarity Before: _____ Texture :_____

Color After : _____ Clarity After: _____ Artifacts:_____

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

MW-110-W-00DL1

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.PW

Lab Code : PEL Case No.: SAS No: SDG No.: 2509451

Matrix: WATER Lab Sample ID: 250945102DL1

Level:(low/med) LOW Date Received: 6/6/2008

PercentSolids: 0 Station ID:

CONCENTRATION UNITS: MG/L

CAS NO.	ANALYTE	Concentration	C	Q	M
3-03-5	Sulfate	118			IC

Surrogate	Recovery	Control Limits	Qualifier
DCA	104.4	90 - 115	

Color Before: _____ Clarity Before: _____ Texture :_____

Color After : _____ Clarity After: _____ Artifacts:_____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

MW-107-W-00

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.PW

Lab Code : PEL Case No.: SAS No: SDG No.: 2509451

Matrix: WATER Lab Sample ID: 250945103

Level:(low/med) LOW Date Received: 6/6/2008

PercentSolids: 0 Station ID:

CONCENTRATION UNITS: MG/L

CAS NO.	ANALYTE	Concentration	C	Q	M
25-90-0	Nitrate	0.217			IC

Surrogate	Recovery	Control Limits	Qualifier
DCA	96.0	90 - 115	

Color Before: _____ Clarity Before: _____ Texture :_____

Color After : _____ Clarity After: _____ Artifacts:_____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

MW-107-W-00DL1

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.PW

Lab Code : PEL Case No.: SAS No: SDG No.: 2509451

Matrix: WATER Lab Sample ID: 250945103DL1

Level:(low/med) LOW Date Received: 6/6/2008

PercentSolids: 0 Station ID:

CONCENTRATION UNITS: MG/L

CAS NO.	ANALYTE	Concentration	C	Q	M
1-00-3	Chloride	71.4			IC
3-03-5	Sulfate	130			IC

Surrogate	Recovery	Control Limits	Qualifier
DCA	100.4	90 - 115	

Color Before: _____ Clarity Before: _____ Texture :_____

Color After : _____ Clarity After: _____ Artifacts:_____

Comments:

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1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

MW-115-W-00

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.PW

Lab Code : PEL Case No.: SAS No: SDG No.: 2509451

Matrix: WATER Lab Sample ID: 250945104

Level:(low/med) LOW Date Received: 6/6/2008

PercentSolids: 0 Station ID:

CONCENTRATION UNITS: MG/L

CAS NO.	ANALYTE	Concentration	C	Q	M
1-00-3	Chloride	6.42			IC
25-90-0	Nitrate	0.324			IC
3-03-5	Sulfate	15.8			IC

Surrogate	Recovery	Control Limits	Qualifier
DCA	98.0	90 - 115	

Color Before: _____ Clarity Before: _____ Texture :_____

Color After : _____ Clarity After: _____ Artifacts:_____

Comments:

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1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

FD-W-060508B

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.PW

Lab Code : PEL Case No.: SAS No: SDG No.: 2509451

Matrix: WATER Lab Sample ID: 250945106

Level:(low/med) LOW Date Received: 6/6/2008

PercentSolids: 0 Station ID:

CONCENTRATION UNITS: MG/L

CAS NO.	ANALYTE	Concentration	C	Q	M
1-00-3	Chloride	5.13			IC
25-90-0	Nitrate	0.327			IC
3-03-5	Sulfate	15.9			IC

Surrogate	Recovery	Control Limits	Qualifier
DCA	96.0	90 - 115	

Color Before: _____ Clarity Before: _____ Texture :_____

Color After : _____ Clarity After: _____ Artifacts:_____

Comments:

QC Summary

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2-CC

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.

Lab Code : PEL Case No.: SAS No: SDG No.: 2509451

Concentration Units: (MG/L)

Analyte	Initial Calibration				Continuing Calibration						
	Source Used	True	Found	%R (1)	Source Used	True	Found	%R (1)	Found	%R (1)	M
Chloride	23116, 23117	8	7.380	92.2	23114, 23115	8	7.470	93.4			IC
Nitrate	23116, 23117	1	0.934	93.4	23114, 23115	1	0.929	92.9			IC
Sulfate	23116, 23117	8	7.970	99.6	23114, 23115	8	8.010	100.1			IC

ICV IDs: IC= ICV610884

CCV1 IDs: IC= CCV610895

CCV2 IDs:

(1) Control Limits: TOC: 75-125

Comments:

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2-CC

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.

Lab Code : PEL Case No.: SAS No: SDG No.: 2509451

Concentration Units: (MG/L)

Analyte	Initial Calibration				Continuing Calibration						
	Source Used	True	Found	%R (1)	Source Used	True	Found	%R (1)	Found	%R (1)	M
Chloride	23116, 23117	8	7.400	92.5	23114, 23115	8	7.350	91.9			IC
Nitrate	23116, 23117	1	0.928	92.8	23114, 23115	1	0.920	92.0			IC
Sulfate	23116, 23117	8	7.970	99.6	23114, 23115	8	7.960	99.5			IC

ICV IDs: IC= ICV611661

CCV1 IDs: IC= CCV611672

CCV2 IDs:

(1) Control Limits: TOC: 75-125

Comments:

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3

BLANKS

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.PW

Lab Code : PEL Case No.: SAS No: SDG No.: 2509451

Preparation Blank Matrix (water/soil): WATER
WATER

Preparation Blank Concentration Units (ug/L or mg/Kg): MG/L
Percent R

Analyte	Initial Calib. Blank (MG/L)	C	Continuing Calibration Blank (MG/L)	C		C		C	Prepa-ration Blank	C	M
Chloride	0.021	U							0.021	U	IC
Nitrate	0.015	U	0.015	U					0.015	U	IC
Sulfate	0.074	U	0.074	U					0.074	U	IC

Surrogate	Recovery	Control Limits	Qualifier
DCA	98.0	90 - 115	

ICB IDs: IC= ICB610885

CCB1 IDs: IC= CCB610896

CCB2 IDs:

CCB3 IDs:

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3

BLANKS

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.PW

Lab Code : PEL Case No.: SAS No: SDG No.: 2509451

Preparation Blank Matrix (water/soil): WATER
WATER

Preparation Blank Concentration Units (ug/L or mg/Kg): MG/L
Percent R

Analyte	Initial Calib. Blank (MG/L)	C	Continuing Calibration Blank (MG/L)	C		C		C	Prepa-ration Blank	C	M
Chloride	0.021	U	0.021	U					0.021	U	IC
Nitrate	0.015	U	0.015	U					0.015	U	IC
Sulfate	0.074	U	0.074	U					0.074	U	IC

Surrogate	Recovery	Control Limits	Qualifier
DCA	98.0	90 - 115	

ICB IDs: IC= ICB611662

CCB1 IDs: IC= CCB611673

CCB2 IDs:

CCB3 IDs:

260608 1139

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6

DUPLICATES

EPA Sample No.

610888LCSD

Lab Name: PEL, Spectrum Analytical Contract: SLOP RI \ 364298.01.SL.RI.P

Lab Code : PEL Case No.: SAS No: SDG No.: 2509451

Matrix: WATER Level:(low/med) LOW

% Solids for Sample: 0 % Solids for Duplicate: 0

Concentration Units (mg/L or mg/kg): MG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Chloride	20	7.34		7.59		3.3		IC
Nitrate	20	0.932		0.934		0.2		IC
Sulfate	20	7.93		8.11		2.2		IC

Comments:

260608 1139

U.S. EPA - CLP

6

DUPLICATES

EPA Sample No.

611665LCSD

Lab Name: PEL, Spectrum Analytical Contract: SLOP RI \ 364298.01.SL.RI.P

Lab Code : PEL Case No.: SAS No: SDG No.: 2509451

Matrix: WATER Level:(low/med) LOW

% Solids for Sample: 0 % Solids for Duplicate: 0

Concentration Units (mg/L or mg/kg): MG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Chloride	20	7.4		7.51		1.5		IC
Nitrate	20	0.934		0.947		1.4		IC
Sulfate	20	8.04		8.07		0.4		IC

Comments:

260608 1139

U.S. EPA - CLP

7-CC

LABORATORY CONTROL SAMPLE

EPA Sample No.

610887LCS

Lab Name: PEL, Spectrum Analytical Contract: SLOP RI \ 364298.01.SL.R

Lab Code : PEL Case No.: SAS No: SDG No.: 2509451

Matrix: (soil/water) WATER

Concentration Units: (MG/L)

PARAMETER	LCS SOURCE	M	LIMITS LOWER	LIMITS UPPER	TRUE	FOUND	%R	C
Chloride	23116, 23117	IC	75	125	8	7.34	91.8	
Nitrate	23116, 23117	IC	75	125	1	0.932	93.2	
Sulfate	23116, 23117	IC	75	125	8	7.93	99.1	

Comments:

260608 1139

U.S. EPA - CLP

7-CC

LABORATORY CONTROL SAMPLE

EPA Sample No.

610888LCSD

Lab Name: PEL, Spectrum Analytical Contract: SLOP RI \ 364298.01.SL.R

Lab Code : PEL Case No.: SAS No: SDG No.: 2509451

Matrix: (soil/water) WATER

Concentration Units: (MG/L)

PARAMETER	LCS SOURCE	M	LIMITS LOWER	LIMITS UPPER	TRUE	FOUND	%R	C
Chloride	23116, 23117	IC	75	125	8	7.59	94.9	
Nitrate	23116, 23117	IC	75	125	1	0.934	93.4	
Sulfate	23116, 23117	IC	75	125	8	8.11	101.4	

Comments:

260608 1139

U.S. EPA - CLP

7-CC

LABORATORY CONTROL SAMPLE

EPA Sample No.

611664LCS

Lab Name: PEL, Spectrum Analytical Contract: SLOP RI \ 364298.01.SL.R

Lab Code : PEL Case No.: SAS No: SDG No.: 2509451

Matrix: (soil/water) WATER

Concentration Units: (MG/L)

PARAMETER	LCS SOURCE	M	LIMITS LOWER	LIMITS UPPER	TRUE	FOUND	%R	C
Chloride	23116, 23117	IC	75	125	8	7.4	92.5	
Nitrate	23116, 23117	IC	75	125	1	0.934	93.4	
Sulfate	23116, 23117	IC	75	125	8	8.04	100.5	

Comments:

260608 1139

U.S. EPA - CLP

7-CC

LABORATORY CONTROL SAMPLE

EPA Sample No.

611665LCSD

Lab Name: PEL, Spectrum Analytical Contract: SLOP RI \ 364298.01.SL.R

Lab Code : PEL Case No.: SAS No: SDG No.: 2509451

Matrix: (soil/water) WATER

Concentration Units: (MG/L)

PARAMETER	LCS SOURCE	M	LIMITS LOWER	LIMITS UPPER	TRUE	FOUND	%R	C
Chloride	23116, 23117	IC	75	125	8	7.51	93.9	
Nitrate	23116, 23117	IC	75	125	1	0.947	94.7	
Sulfate	23116, 23117	IC	75	125	8	8.07	100.9	

Comments:

260608 1139

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10

METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.PW

Lab Code : PEL Case No.: SAS No: SDG No.: 2509451

Matrix: Water

Concentration Units: MG/L

PARAMETER	M	INSTRUMENT ID	DATE	CRDL	MDL	Raw MDL (UG/L)
Chloride	IC	IC	8/7/2007	1	0.021	0.021
Nitrate	IC	IC	8/7/2007	0.1	0.015	0.015
Sulfate	IC	IC	8/7/2007	1	0.074	0.074

Comments:

260608 1139

U.S. EPA - CLP

14

ANALYSIS RUN LOG

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.PW

Lab Code : PEL Case No.: SAS No: SDG No.: 2509451

Instrument ID Number : IC Method : IC

Start Date : 5/13/2008 End Date : 5/14/2008

EPA Sample No.	D/F	Time	%R	Analytes: Chloride DCA Nitrate Sulfate
ZZZZZZ	1	16:39		
ZZZZZZ	1	17:06		
IICAL7	1	17:34		X
IICAL6	1	18:01		X
IICAL5	1	18:29		X
IICAL4	1	18:56		X
IICAL3	1	19:23		X
IICAL2	1	19:51		X
IICAL1	1	20:18		X
ZZZZZZ	1	20:46		
ZZZZZZ	1	21:13		
ZZZZZZ	1	21:41		
ZZZZZZ	1	22:08		
ZZZZZZ	1	22:35		
ZZZZZZ	1	23:03		
ZZZZZZ	1	23:30		
ZZZZZZ	1	23:58		
ZZZZZZ	1	0:25		
ZZZZZZ	1	0:53		

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14

ANALYSIS RUN LOG

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.PW

Lab Code : PEL Case No.: SAS No: SDG No.: 2509451

Instrument ID Number : IC Method : IC

Start Date : 6/6/2008 End Date : 6/7/2008

EPA Sample No.	D/F	Time	%R	Analytes: Chloride DCA Nitrate Sulfate
ZZZZZZ	1	14:17		
ICV610884	1	14:45		X
ICB610885	1	15:12		X
610886MB	1	15:40		X
610887LCS	1	16:07		X
610888LCSD	1	16:34		X
MW-110-W-00	1	17:02		X
ZZZZZZ	1	17:29		
ZZZZZZ	1	17:57		
MW-107-W-00	1	18:24		X
MW-115-W-00	1	18:52		X
FD-W-060508B	1	19:19		X
CCV610895	1	19:46		X
CCB610896	1	20:14		X
ZZZZZZ	1	20:41		
ZZZZZZ	1	21:09		
ZZZZZZ	1	21:36		
ZZZZZZ	1	22:04		
ZZZZZZ	1	22:31		
ZZZZZZ	1	22:59		
ZZZZZZ	1	23:26		
ZZZZZZ	1	23:53		
ZZZZZZ	1	0:21		
ZZZZZZ	1	0:48		
ZZZZZZ	1	1:16		

260608 1139

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14

ANALYSIS RUN LOG

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.PW

Lab Code : PEL Case No.: SAS No: SDG No.: 2509451

Instrument ID Number : IC Method : IC

Start Date : 6/7/2008 End Date : 6/7/2008

EPA Sample No.	D/F	Time	%R	Analytes: Chloride DCA Nitrate Sulfate
ZZZZZZ	1	11:38		
ICV611661	1	12:05		X
ICB611662	1	12:33		X
611663MB	1	13:00		X
611664LCS	1	13:28		X
611665LCSD	1	13:55		X
MW-110-W-00DL1	5	14:22		X
ZZZZZZ	5	14:50		
ZZZZZZ	5	15:17		
MW-107-W-00DL1	5	15:45		X
ZZZZZZ	1	16:12		
ZZZZZZ	5	16:40		
CCV611672	1	17:07		X
CCB611673	1	17:34		X

260608 1139

Chain of Custody Documentation

260608 1139

PEL Laboratories, Inc.
1010000 1000101 1100110

8405 Benjamin Rd, Suite A
Tampa, FL 33636
Phone: 813-888-9507
E-Mail: login@pelab.com

Chain of Custody Record
Record/Work Request

2509451 KC

Company: CH2M HILL

Address: 727 N. First St., Suite 400, St. Louis, MO 63102

Phone: 314-335-3023 Fax: 314-421-8127

Project Name/Number: SLOP R1 / 364298.01.SL.R1.FW

Project Manager: Chris English

Purchase Order:

DEP Form #: 62-770.900(2)
Form Title: Chain of Custody Record
Effective Date: September 23, 1997
FDEP Facility No.
Project Name:
Sampling CompQAP No:
Approval Date:
REQUESTED DUE DATE / /

Print Names(s) / Affiliation: Anthony Swierzek / CH2M HILL

Sampler(s) Signature(s): [signature]

Preservatives (see codes): H, N, H, I

Analyses Requested: VOC, 8260; Dissolved Fe, Mn; Dissolved Mercury, Barium, Beryllium; Dissolved Sulfate, Sulfide, Chloride

Item No.	Field ID No.	Sampled Date	Sampled Time	Grab or Composite	Matrix (see codes)	Number of Containers	VOC, 8260	Dissolved Fe, Mn	Dissolved Mercury, Barium, Beryllium	Dissolved Sulfate, Sulfide, Chloride	Remarks	Lab. No.
1	MW-112-W-00	6/05/08	1010	Grab	GW	3	X					01
2	MW-110-W-00	6/05/08	1215	Grab	GW	8	X	X	X	X		02
3	MW-107-W-00	6/05/08	1500	Grab	GW	8	X	X	X	X		03
4	MW-115-W-00	6/05/08	1715	Grab	GW	8	X	X	X	X		04
5	FD-W-060508A	6/05/08	1720	Grab	GW	3	X					05
6	FD-W-060508B	6/05/08	1725	Grab	GW	5		X	X	X		06
7	TB-060508	6/05/08	1800	—	W	1	X					07

Shipment Method

← Total Number of Containers

Out: 6 / 05 / 08	Via: FedEx	Item Nos.	Relinquished by / Affiliations	Date	Time	Accepted by / Affiliation	Date	Time
Returned: / /	Via.		[signature]	5/19/08	1421			
Additional Comments:			[signature] / CH2M HILL	6/5/08	1900	[signature]	6/6/08	0830

pH, 8260, RSK, 6010
6010 samples field filtered

Cooler No. (s) / Temperature(s) (C)	Sampling Kit No.	Equipment ID No.
HC		

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) O = Other (specify)

PRESERVATION CODES: H-Hydrochloric acid + ice I = Ice only N = Nitric acid + ice S = Sulfuric acid + ice O = Other (specify)

2509451

FedEx Express **US Airbill** 8627 4831 7270 0200 Form ID No. **FedEx Retrieval Copy**

1 From

Date 6/5/08 Sender's FedEx Account Number 100177820

Sender's Name Glynn Roberts Phone 314 421-0900

Company CH2M Hill

Address 727 N. First St Dept./Floor/Suite/Room

City St. Louis State MO ZIP 63102

2 Your Internal Billing Reference 364298.01.SL.RI.FW/41500

3 To

Recipient's Name Sample Receiving Phone 813 888-9507

Company PEL Labs

Recipient's Address

We cannot deliver to P.O. boxes or P.O. ZIP codes. Dept./Floor/Suite/Room

Address 8405 Benjamin Rd Suite A

To request a package be held at a specific FedEx location, print FedEx address here.

City Tampa State FL ZIP 33634

8627 4831 7270

4a Express Package Service *Packages up to 150 lbs.*

1 [X] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

5 [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

6 [ ] FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.

3 [ ] FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

20 [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

FedEx Envelope rate not available. Minimum charge: One-pound rate. *To most locations.

4b Express Freight Service *Packages over 150 lbs.*

7 [ ] FedEx 1Day Freight* — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

8 [ ] FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

83 [ ] FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

* Call for Confirmation: ** To most locations.

5 Packaging

6 [ ] FedEx Envelope* 2 [ ] FedEx Pak* (Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.) 3 [ ] FedEx Box 4 [ ] FedEx Tube 1 [X] Other

* Declared value limit $500.

6 Special Handling Include FedEx address in Section 3.

3 [ ] **SATURDAY Delivery** Not available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.

1 [ ] **HOLD Weekday at FedEx Location** Not available for FedEx First Overnight.

31 [ ] **HOLD Saturday at FedEx Location** Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Does this shipment contain dangerous goods? One box must be checked.

[X] No 4 [ ] Yes As per attached Shipper's Declaration. [ ] Yes Shipper's Declaration not required. 6 [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging. [ ] Cargo Aircraft Only

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below.

1 [X] Sender Acct. No. in Section 1 will be billed. 2 [ ] Recipient 3 [ ] Third Party 4 [ ] Credit Card 5 [ ] Cash/Check Obtain Recip. Acct. No. [ ]

[redacted] 1001 [redacted]

Total Packages 1 Total Weight 59 [redacted] Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

8 Residential Delivery Signature Options If you require a signature, check Direct or Indirect.

[ ] No Signature Required — Package may be left without obtaining a signature for delivery.

10 [ ] Direct Signature — Someone at recipient's address may sign for delivery. *Fee applies.*

34 [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. *Fee applies.*

520

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PEL, a Division of Spectrum Analytical, Inc.

pH LOG SHEET

Work Order # 2509451 By KC

Client / Project Name SLOP Date 6/6/08

PEL Sample Number	H_2SO_4 (pH<2)		HNO_3 (pH<2)		NaOH (pH>12)		ZnAC/NaOH (pH>9)		HCl (pH<2)		Other _____ pH _____	
	No. of Containers	pH	No. of Containers	pH	No. of Containers	pH	No. of Containers	pH	No. of Containers	pH	No. of Containers	pH
01									3	<2		
02			1	<2					6			
03												
04												
05									3			
06			1	<2								
07									1			
08												
09												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

W:\Login\pH LOG SHEET REV 4.doc

2509451

SAMPLE RECEIPT CONFIRMATION SHEET

Client Information

SDG:	2509451	**Req:**	85624
Client:	CH2M Hill	**Project:**	Hanley Area
Level:	3	**Date Rec'd:**	6/6/2008 8:30:00 AM
Rec'd via:	Fed-Ex	**Due Date:**	06/16/08

Sample Verification

Samples/Cooler Secure?	Yes	**All Samples on COC accounted For?**	Yes
Temperature of Samples(Celsius)	4.0c	**All Samples Rec'd Intact?**	Yes
pH Verified?	Yes	**Sample Vol. Stuff. For Analysis?**	Yes
pH WNL?	Yes	**Samples Rec'd W/I Hold Time?**	Yes
Soil Origin (Domestic/Foreign):		**Are All Samples to be Analyzed?**	Yes
Site Location/Project on COC?	Yes	**Correct Sample Containers?**	Yes
Client Project # on COC?	Yes	**COC Comments written on COC?**	Yes
Project Mgr. Indicated on COC?	Yes	**Samplers Initials on COC?**	Yes
COC relinquished/Dated by Client?	Yes	**Sample Date/Time Indicated?**	Yes
COC Received/Dated by PEL?	Yes	**TAT Requested:**	STD
Specific Subcontract Indicated?	No	**Client Requests Verbal Results?**	No
Samples Received By	Fed-Ex	**Client Requests Faxed Results?**	No
PEL to Conduct ALL Analyses?	Yes		

PEER REVIEW

Client: CH2M Hill

WONo: 2509451 **Profile Name:** SLOP2 **Profile #:** 85624

MATRIX ***W***

Sample #	Parameter		Relinquished	Received	Date	Time
02 - 06	6010	Metals	KC	[illegible]	6/9/08	1200
02 - 06	6010	Metals	[illegible]	KC	6/9/08	1730
01 - 07	8260	Volatile Organic Compounds	KC	MGS	6/9/08	6:00
01 - 07	8260	Volatile Organic Compounds		consumed		
02 - 06	300.1	Determination of Inorganic Anions by Ion Chromatography	KC	[illegible]	6-6-08	1330
02 - 06	300.1	Determination of Inorganic Anions by Ion Chromatography	[illegible]	KC	6-6-08	1430
02 - 06	6010_D	Dissolved Metals	KC	[illegible]	6/9/08	1200
02 - 06	6010_D	Dissolved Metals	[illegible]	KC	6/9/08	1730
02 - 06	RSK-175	RSK175	KC	[illegible]	6/6/08	1200
02 - 06	RSK-175	RSK175				consumed.

Additional:

Comments:

Addendum

260608 1139

Letter of Acceptance

Customer Name: CH2M Hill

Date and Time Received: 6/6/2008 8:30:00 AM

Date to be Reported: 6/27/2008

Laboratory Submission Number/SDG: 2509451

Get Detailed Analyte List here: www.pelab.com/webdms/Default.asp?LoaSDG=2509451

Project: SLOP RI \ 364298.01.SL.RI.PW

Samples: The submission consisted of 7 samples with sample identification shown in the attached data tables.

Tests: The Samples will be analyzed for EPA methods: 300.1, 6010_D, 8260, RSK-175.

Sample Custody/COC discrepancies:

None.

Notes:

None.

Distribution of Report to:

CH2M Hill
Attn: Dave Lee
Phone: W 314-421-0900

Note: Submitted material will be retained for 30 days unless otherwise requested by client or consumed in analysis. PEL letters and reports are for the exclusive use of the client to whom they are addressed. Our letters and reports apply to the sample tested and are not necessarily indicative of the qualities of apparently identical or similar materials

Log-in Report

Level: 3

Total of: 18 analyses on 7 samples (including QC) *10-Jun-08*

Report/SDG #: 2509451

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
MW-112-W-00	250945101		W	6/5/2008 10:10:00 AM	6/6/2008 8:30:00 AM

Method		
8260	Volatile Organic Compounds	8260

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
MW-110-W-00	250945102		W	6/5/2008 12:15:00 PM	6/6/2008 8:30:00 AM

Method		
300.1	Determination of Inorganic Anions by Ion	300.1
6010_D	Dissolved Metals	6010
8260	Volatile Organic Compounds	8260
RSK-175	RSK175	RSK175

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
MW-107-W-00	250945103		W	6/5/2008 3:00:00 PM	6/6/2008 8:30:00 AM

Method		
300.1	Determination of Inorganic Anions by Ion	300.1
6010_D	Dissolved Metals	6010
8260	Volatile Organic Compounds	8260
RSK-175	RSK175	RSK175

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
MW-115-W-00	250945104		W	6/5/2008 5:15:00 PM	6/6/2008 8:30:00 AM

Method		
300.1	Determination of Inorganic Anions by Ion	300.1
6010_D	Dissolved Metals	6010
8260	Volatile Organic Compounds	8260
RSK-175	RSK175	RSK175

Report/SDG #: 2509451

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
FD-W-060508A	250945105		W	6/5/2008 5:20:00 PM	6/6/2008 8:30:00 AM

Method		
8260	Volatile Organic Compounds	8260

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
FD-W-060508B	250945106		W	6/5/2008 5:25:00 PM	6/6/2008 8:30:00 AM

Method		
300.1	Determination of Inorganic Anions by Ion	300.1
6010_D	Dissolved Metals	6010
RSK-175	RSK175	RSK175

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
TB-060508	250945107		WQ	6/5/2008 6:00:00 PM	6/6/2008 8:30:00 AM

Method		
8260	Volatile Organic Compounds	8260

Darcy Weisman

From: Darcy Weisman
Sent: Wednesday, June 11, 2008 9:22 AM
To: 'Dave.Lee@ch2m.com'
Subject: FW: dilutions; 2509451 8260 slop2

Good morning.

-----Original Message-----
From: Mark Jacobs
Sent: Wednesday, June 11, 2008 9:10 AM
To: Project Managers
Cc: Lisa Pelo
Subject: dilutions; 2509451 8260 slop2

Sample MW-110-W-00 was unable to be analyzed full due to high concentration of the following analyte: Tetrachloroethene. Dilutions of 1:20 and 1:500 are reported.

Mark W. Jacobs
Volatiles GC/MS Analyst, Tampa Division
PEL, a division of Spectrum Analytical Featuring Hanibal Technology
813-888-9507 X230

Darcy Weisman

From: Darcy Weisman
Sent: Friday, June 13, 2008 11:54 AM
To: 'Dave.Lee@ch2m.com'
Subject: FW: 2509451 - 300.1 SLOP

Good afternoon.

-----Original Message-----
From: Brian Spann
Sent: Friday, June 13, 2008 6:59 AM
To: Project Managers
Subject: 2509451 - 300.1 SLOP

1. **Calibration Blanks:**

   All acceptance criteria were met. No action required. The following ICB/CCB(s) had element concentrations below the RL:

   ICB610885 was analyzed on 06/06/08 15:12. Blank was non-detect for all target analytes.

   CCB610896 was analyzed on 06/06/08 20:14. Blank was non-detect for all target analytes.

   ICB611662 was analyzed on 06/07/08 12:33. Blank was non-detect for all target analytes.

   CCB611673 was analyzed on 06/07/08 17:34. Blank was non-detect for all target analytes.

Brian Spann
Lab Director, Tampa Division
PEL, a Division of Spectrum Analytical Featuring Hanibal Technology
813-888-9507 office
813-503-9813 mobile

SUPPLEMENTAL DATA

GC/MS VOLATILE ORGANICS

METHOD 8260

120708 323

CASE NARRATIVE
GC/MS VOLATILE ORGANICS

PEL Lab Reference No./SDG: 2509451

Client: CH2M Hill

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this package.

II. HOLDING TIMES

A. Sample Preparation: All holding times were met.

B. Sample Analysis: All holding times were met.

III. METHODS

EPA 8260B/SW846

IV. PREPARATION

Water samples were prepared by SW846/5030 for EPA8260B volatiles analysis. All aspects of sample preparation proceeded without exception.

V. ANALYSIS

A. Calibration:

All acceptance criteria were met.

B. Blanks:

All acceptance criteria were met.

C. Surrogates:

All acceptance criteria were met.

D. Spikes:

1. Laboratory Control Spikes (LCS)

All acceptance criteria were met with the exception of:

LCS 060908LCSA34 was analyzed with the water samples on 06/09/08. The following analyte(s) were recovered above criteria: 2-Butanone at 137 % with criteria of (76-124), Methylene chloride at 112 % with criteria of (75-111). The following analyte had marginal exceedance limit failures: 2-Butanone at 137 % with criteria of (68-132). No further action was taken, since the analyte list changed to a longer list and this analyte was not previously an issue.

CASE NARRATIVE
GC/MS VOLATILE ORGANICS

PEL Lab Reference No./SDG: 2509451

Client: CH2M Hill

LCS 060908LCSA34D was analyzed with the water samples on 06/09/08. The following analyte was recovered above criteria: 2-Butanone at 130 % with criteria of (76-124). No further action was required.

Samples coded accordingly.

2. Matrix Spike/Matrix Spike Duplicate Samples (MS/SD)

No spikes requested by client.

E. Internal Standards:

All acceptance criteria were met.

F. Samples:

Sample analysis proceeded normally. Client specified reporting limits were used.

Please note that this is a resubmittal due to the analyte list being changed by the project chemist.

All samples were screened prior to GC/MS analysis.

Sample MW-110-W-00 could not be analyzed full due to a high concentration of Tetrachloroethene. Dilutions of 1:20 and 1:500 are reported.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and PEL, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as, verified by the following signature.

SIGNED: **DATE: 07/11/2008**

W:\Narratives\Vols\2509\2509451_8260.doc

VOLATILE ORGANIC CROSS REFERENCE TABLE

Lab Name: PEL Laboratories, Inc. Contract: SLOP RI \ 364298.01.SL.RI.PW

Lab Code : PEL Case No. SAS No: SDG No.: 2509451

Method: 8260

EPA Sample No	Lab Sample ID
MW-112-W-00	250945101
MW-110-W-00	250945102
MW-110-W-00DL1	250945102DL1
MW-107-W-00	250945103
MW-115-W-00	250945104
FD-W-060508A	250945105
TB-060508	250945107

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Sample Data

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

MW-112-W-00

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.P

Lab Code : PEL Case No. SAS No: SDG No.: 2509451

Matrix: WATER Lab Sample ID: 250945101 Lab File ID: 45101.D

Sample wt/vol: 5 Units: ML Date Received: 06/06/08

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/09/08 Time: 2250

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
75-71-8	Dichlorodifluoromethane	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
75-35-4	1,1-Dichloroethene	1	U
107-02-8	Acrolein	10	U
74-88-4	Methyl iodide	2	U
75-15-0	Carbon disulfide	1	U
75-09-2	Methylene chloride	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
107-13-1	Acrylonitrile	4	U
75-34-3	1,1-Dichloroethane	1	U
67-64-1	Acetone	10	U
594-20-7	2,2-Dichloropropane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
74-97-5	Bromochloromethane	1	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
563-58-6	1,1-Dichloropropene	1	U
71-43-2	Benzene	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
108-05-4	Vinyl acetate	2	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

MW-112-W-00

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.P

Lab Code : PEL Case No. SAS No: SDG No.: 2509451

Matrix: WATER Lab Sample ID: 250945101 Lab File ID: 45101.D

Sample wt/vol: 5 Units: ML Date Received: 06/06/08

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/09/08 Time: 2250

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
78-87-5	1,2-Dichloropropane	1	U
74-95-3	Dibromomethane	1	U
75-27-4	Bromodichloromethane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1	U
142-28-9	1,3-Dichloropropane	1	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane(EDB)	1	U
108-90-7	Chlorobenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
100-41-4	Ethylbenzene	1	U
511-39-00	p,m-Xylene	2	U
95-47-6	o-Xylene	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
98-82-8	Isopropylbenzene (Cumene)	1	U
108-86-1	Bromobenzene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
96-18-4	1,2,3-Trichloropropane	1	U
103-65-1	n-Propylbenzene	1	U
95-49-8	2-Chlorotoluene	1	U
106-43-4	4-Chlorotoluene	1	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

MW-112-W-00

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.P

Lab Code : PEL Case No. SAS No: SDG No.: 2509451

Matrix: WATER Lab Sample ID: 250945101 Lab File ID: 45101.D

Sample wt/vol: 5 Units: ML Date Received: 06/06/08

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/09/08 Time: 2250

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
108-67-8	1,3,5-Trimethylbenzene	1	U
98-06-6	tert-Butylbenzene	1	U
95-63-6	1,2,4-Trimethylbenzene	1	U
135-98-8	sec-Butylbenzene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
99-87-6	4-Isopropyltoluene	1	U
104-51-8	n-Butylbenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	2	U
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	1	U
91-20-3	Naphthalene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U
1634-04-4	MTBE	1	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

MW-110-W-00

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.P

Lab Code : PEL Case No. SAS No: SDG No.: 2509451

Matrix: WATER Lab Sample ID: 250945102 Lab File ID: 45102.D

Sample wt/vol: 5 Units: ML Date Received: 06/06/08

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/10/08 Time: 0338

PercentSolids: 0 decanted : Dilution Factor: 20

Extraction: PURGETRAP Station ID: Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
75-71-8	Dichlorodifluoromethane	20	U
74-87-3	Chloromethane	20	U
75-01-4	Vinyl chloride	20	U
74-83-9	Bromomethane	20	U
75-00-3	Chloroethane	20	U
75-69-4	Trichlorofluoromethane	20	U
75-35-4	1,1-Dichloroethene	20	U
107-02-8	Acrolein	200	U
74-88-4	Methyl iodide	40	U
75-15-0	Carbon disulfide	20	U
75-09-2	Methylene chloride	20	U
156-60-5	trans-1,2-Dichloroethene	20	U
107-13-1	Acrylonitrile	80	U
75-34-3	1,1-Dichloroethane	20	U
67-64-1	Acetone	200	U
594-20-7	2,2-Dichloropropane	20	U
156-59-2	cis-1,2-Dichloroethene	82.2	
74-97-5	Bromochloromethane	20	U
78-93-3	2-Butanone	200	U
67-66-3	Chloroform	20	U
71-55-6	1,1,1-Trichloroethane	20	U
56-23-5	Carbon tetrachloride	20	U
563-58-6	1,1-Dichloropropene	20	U
71-43-2	Benzene	20	U
107-06-2	1,2-Dichloroethane	100	
79-01-6	Trichloroethene	129	
108-05-4	Vinyl acetate	40	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

MW-110-W-00

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.P

Lab Code : PEL Case No. SAS No: SDG No.: 2509451

Matrix: WATER Lab Sample ID: 250945102 Lab File ID: 45102.D

Sample wt/vol: 5 Units: ML Date Received: 06/06/08

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/10/08 Time: 0338

PercentSolids: 0 decanted : Dilution Factor: 20

Extraction: PURGETRAP Station ID: Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
78-87-5	1,2-Dichloropropane	20	U
74-95-3	Dibromomethane	20	U
75-27-4	Bromodichloromethane	20	U
10061-01-5	cis-1,3-Dichloropropene	20	U
108-10-1	4-Methyl-2-pentanone	100	U
108-88-3	Toluene	20	U
10061-02-6	trans-1,3-Dichloropropene	20	U
79-00-5	1,1,2-Trichloroethane	20	U
127-18-4	Tetrachloroethene	8890	E
142-28-9	1,3-Dichloropropane	20	U
591-78-6	2-Hexanone	100	U
124-48-1	Dibromochloromethane	20	U
106-93-4	1,2-Dibromoethane(EDB)	20	U
108-90-7	Chlorobenzene	20	U
630-20-6	1,1,1,2-Tetrachloroethane	20	U
100-41-4	Ethylbenzene	20	U
511-39-00	p,m-Xylene	40	U
95-47-6	o-Xylene	20	U
100-42-5	Styrene	20	U
75-25-2	Bromoform	20	U
98-82-8	Isopropylbenzene (Cumene)	20	U
108-86-1	Bromobenzene	20	U
79-34-5	1,1,2,2-Tetrachloroethane	20	U
96-18-4	1,2,3-Trichloropropane	20	U
103-65-1	n-Propylbenzene	20	U
95-49-8	2-Chlorotoluene	20	U
106-43-4	4-Chlorotoluene	20	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

MW-110-W-00

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.P

Lab Code : PEL Case No. SAS No: SDG No.: 2509451

Matrix: WATER Lab Sample ID: 250945102 Lab File ID: 45102.D

Sample wt/vol: 5 Units: ML Date Received: 06/06/08

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/10/08 Time: 0338

PercentSolids: 0 decanted : Dilution Factor: 20

Extraction: PURGETRAP Station ID: Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
108-67-8	1,3,5-Trimethylbenzene	20	U
98-06-6	tert-Butylbenzene	20	U
95-63-6	1,2,4-Trimethylbenzene	20	U
135-98-8	sec-Butylbenzene	20	U
541-73-1	1,3-Dichlorobenzene	20	U
106-46-7	1,4-Dichlorobenzene	20	U
99-87-6	4-Isopropyltoluene	20	U
104-51-8	n-Butylbenzene	20	U
95-50-1	1,2-Dichlorobenzene	20	U
96-12-8	1,2-Dibromo-3-chloropropane	40	U
120-82-1	1,2,4-Trichlorobenzene	20	U
87-68-3	Hexachlorobutadiene	20	U
91-20-3	Naphthalene	20	U
87-61-6	1,2,3-Trichlorobenzene	20	U
1634-04-4	MTBE	20	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

MW-110-W-00DL1

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.P

Lab Code : PEL Case No. SAS No: SDG No.: 2509451

Matrix: WATER Lab Sample ID: 250945102DL1 Lab File ID: 45102D.D

Sample wt/vol: 5 Units: ML Date Received: 06/06/08

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/09/08 Time: 2314

PercentSolids: 0 decanted : Dilution Factor: 500

Extraction: PURGETRAP Station ID: Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
75-71-8	Dichlorodifluoromethane	500	U
74-87-3	Chloromethane	500	U
75-01-4	Vinyl chloride	500	U
74-83-9	Bromomethane	500	U
75-00-3	Chloroethane	500	U
75-69-4	Trichlorofluoromethane	500	U
75-35-4	1,1-Dichloroethene	500	U
107-02-8	Acrolein	5000	U
74-88-4	Methyl iodide	1000	U
75-15-0	Carbon disulfide	500	U
75-09-2	Methylene chloride	500	U
156-60-5	trans-1,2-Dichloroethene	500	U
107-13-1	Acrylonitrile	2000	U
75-34-3	1,1-Dichloroethane	500	U
67-64-1	Acetone	5000	U
594-20-7	2,2-Dichloropropane	500	U
156-59-2	cis-1,2-Dichloroethene	500	U
74-97-5	Bromochloromethane	500	U
78-93-3	2-Butanone	5000	U
67-66-3	Chloroform	500	U
71-55-6	1,1,1-Trichloroethane	500	U
56-23-5	Carbon tetrachloride	500	U
563-58-6	1,1-Dichloropropene	500	U
71-43-2	Benzene	500	U
107-06-2	1,2-Dichloroethane	500	U
79-01-6	Trichloroethene	500	U
108-05-4	Vinyl acetate	1000	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

MW-110-W-00DL1

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.P

Lab Code : PEL Case No. SAS No: SDG No.: 2509451

Matrix: WATER Lab Sample ID: 250945102DL1 Lab File ID: 45102D.D

Sample wt/vol: 5 Units: ML Date Received: 06/06/08

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/09/08 Time: 2314

PercentSolids: 0 decanted : Dilution Factor: 500

Extraction: PURGETRAP Station ID: Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
78-87-5	1,2-Dichloropropane	500	U
74-95-3	Dibromomethane	500	U
75-27-4	Bromodichloromethane	500	U
10061-01-5	cis-1,3-Dichloropropene	500	U
108-10-1	4-Methyl-2-pentanone	2500	U
108-88-3	Toluene	500	U
10061-02-6	trans-1,3-Dichloropropene	500	U
79-00-5	1,1,2-Trichloroethane	500	U
127-18-4	Tetrachloroethene	9440	
142-28-9	1,3-Dichloropropane	500	U
591-78-6	2-Hexanone	2500	U
124-48-1	Dibromochloromethane	500	U
106-93-4	1,2-Dibromoethane(EDB)	500	U
108-90-7	Chlorobenzene	500	U
630-20-6	1,1,1,2-Tetrachloroethane	500	U
100-41-4	Ethylbenzene	500	U
511-39-00	p,m-Xylene	1000	U
95-47-6	o-Xylene	500	U
100-42-5	Styrene	500	U
75-25-2	Bromoform	500	U
98-82-8	Isopropylbenzene (Cumene)	500	U
108-86-1	Bromobenzene	500	U
79-34-5	1,1,2,2-Tetrachloroethane	500	U
96-18-4	1,2,3-Trichloropropane	500	U
103-65-1	n-Propylbenzene	500	U
95-49-8	2-Chlorotoluene	500	U
106-43-4	4-Chlorotoluene	500	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

MW-110-W-00DL1

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.P

Lab Code : PEL Case No. SAS No: SDG No.: 2509451

Matrix: WATER Lab Sample ID: 250945102DL1 Lab File ID: 45102D.D

Sample wt/vol: 5 Units: ML Date Received: 06/06/08

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/09/08 Time: 2314

PercentSolids: 0 decanted : Dilution Factor: 500

Extraction: PURGETRAP Station ID: Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
108-67-8	1,3,5-Trimethylbenzene	500	U
98-06-6	tert-Butylbenzene	500	U
95-63-6	1,2,4-Trimethylbenzene	500	U
135-98-8	sec-Butylbenzene	500	U
541-73-1	1,3-Dichlorobenzene	500	U
106-46-7	1,4-Dichlorobenzene	500	U
99-87-6	4-Isopropyltoluene	500	U
104-51-8	n-Butylbenzene	500	U
95-50-1	1,2-Dichlorobenzene	500	U
96-12-8	1,2-Dibromo-3-chloropropane	1000	U
120-82-1	1,2,4-Trichlorobenzene	500	U
87-68-3	Hexachlorobutadiene	500	U
91-20-3	Naphthalene	500	U
87-61-6	1,2,3-Trichlorobenzene	500	U
1634-04-4	MTBE	500	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

MW-107-W-00

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.P

Lab Code : PEL Case No. SAS No: SDG No.: 2509451

Matrix: WATER Lab Sample ID: 250945103 Lab File ID: 45103.D

Sample wt/vol: 5 Units: ML Date Received: 06/06/08

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/09/08 Time: 2338

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
75-71-8	Dichlorodifluoromethane	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
75-35-4	1,1-Dichloroethene	1	U
107-02-8	Acrolein	10	U
74-88-4	Methyl iodide	2	U
75-15-0	Carbon disulfide	1	U
75-09-2	Methylene chloride	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
107-13-1	Acrylonitrile	4	U
75-34-3	1,1-Dichloroethane	1	U
67-64-1	Acetone	10	U
594-20-7	2,2-Dichloropropane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
74-97-5	Bromochloromethane	1	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
563-58-6	1,1-Dichloropropene	1	U
71-43-2	Benzene	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
108-05-4	Vinyl acetate	2	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

MW-107-W-00

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.P

Lab Code : PEL Case No. SAS No: SDG No.: 2509451

Matrix: WATER Lab Sample ID: 250945103 Lab File ID: 45103.D

Sample wt/vol: 5 Units: ML Date Received: 06/06/08

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/09/08 Time: 2338

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
78-87-5	1,2-Dichloropropane	1	U
74-95-3	Dibromomethane	1	U
75-27-4	Bromodichloromethane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1	U
142-28-9	1,3-Dichloropropane	1	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane(EDB)	1	U
108-90-7	Chlorobenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
100-41-4	Ethylbenzene	1	U
511-39-00	p,m-Xylene	2	U
95-47-6	o-Xylene	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
98-82-8	Isopropylbenzene (Cumene)	1	U
108-86-1	Bromobenzene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
96-18-4	1,2,3-Trichloropropane	1	U
103-65-1	n-Propylbenzene	1	U
95-49-8	2-Chlorotoluene	1	U
106-43-4	4-Chlorotoluene	1	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

MW-107-W-00

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.P

Lab Code : PEL Case No. SAS No: SDG No.: 2509451

Matrix: WATER Lab Sample ID: 250945103 Lab File ID: 45103.D

Sample wt/vol: 5 Units: ML Date Received: 06/06/08

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/09/08 Time: 2338

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
108-67-8	1,3,5-Trimethylbenzene	1	U
98-06-6	tert-Butylbenzene	1	U
95-63-6	1,2,4-Trimethylbenzene	1	U
135-98-8	sec-Butylbenzene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
99-87-6	4-Isopropyltoluene	1	U
104-51-8	n-Butylbenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	2	U
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	1	U
91-20-3	Naphthalene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U
1634-04-4	MTBE	1	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

MW-115-W-00

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.P

Lab Code : PEL Case No. SAS No: SDG No.: 2509451

Matrix: WATER Lab Sample ID: 250945104 Lab File ID: 45104.D

Sample wt/vol: 5 Units: ML Date Received: 06/06/08

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/10/08 Time: 0002

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
75-71-8	Dichlorodifluoromethane	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
75-35-4	1,1-Dichloroethene	1	U
107-02-8	Acrolein	10	U
74-88-4	Methyl iodide	2	U
75-15-0	Carbon disulfide	1	U
75-09-2	Methylene chloride	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
107-13-1	Acrylonitrile	4	U
75-34-3	1,1-Dichloroethane	1	U
67-64-1	Acetone	8.8	J
594-20-7	2,2-Dichloropropane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
74-97-5	Bromochloromethane	1	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	0.38	J
563-58-6	1,1-Dichloropropene	1	U
71-43-2	Benzene	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
108-05-4	Vinyl acetate	2	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

MW-115-W-00

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.P

Lab Code : PEL Case No. SAS No: SDG No.: 2509451

Matrix: WATER Lab Sample ID: 250945104 Lab File ID: 45104.D

Sample wt/vol: 5 Units: ML Date Received: 06/06/08

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/10/08 Time: 0002

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
78-87-5	1,2-Dichloropropane	1	U
74-95-3	Dibromomethane	1	U
75-27-4	Bromodichloromethane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1	U
142-28-9	1,3-Dichloropropane	1	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane(EDB)	1	U
108-90-7	Chlorobenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
100-41-4	Ethylbenzene	1	U
511-39-00	p,m-Xylene	2	U
95-47-6	o-Xylene	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
98-82-8	Isopropylbenzene (Cumene)	1	U
108-86-1	Bromobenzene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
96-18-4	1,2,3-Trichloropropane	1	U
103-65-1	n-Propylbenzene	1	U
95-49-8	2-Chlorotoluene	1	U
106-43-4	4-Chlorotoluene	1	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

MW-115-W-00

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.P

Lab Code : PEL Case No. SAS No: SDG No.: 2509451

Matrix: WATER Lab Sample ID: 250945104 Lab File ID: 45104.D

Sample wt/vol: 5 Units: ML Date Received: 06/06/08

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/10/08 Time: 0002

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
108-67-8	1,3,5-Trimethylbenzene	1	U
98-06-6	tert-Butylbenzene	1	U
95-63-6	1,2,4-Trimethylbenzene	1	U
135-98-8	sec-Butylbenzene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
99-87-6	4-Isopropyltoluene	1	U
104-51-8	n-Butylbenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	2	U
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	1	U
91-20-3	Naphthalene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U
1634-04-4	MTBE	1	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

FD-W-060508A

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.P

Lab Code : PEL Case No. SAS No: SDG No.: 2509451

Matrix: WATER Lab Sample ID: 250945105 Lab File ID: 45105.D

Sample wt/vol: 5 Units: ML Date Received: 06/06/08

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/10/08 Time: 0026

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
75-71-8	Dichlorodifluoromethane	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
75-35-4	1,1-Dichloroethene	1	U
107-02-8	Acrolein	10	U
74-88-4	Methyl iodide	2	U
75-15-0	Carbon disulfide	1	U
75-09-2	Methylene chloride	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
107-13-1	Acrylonitrile	4	U
75-34-3	1,1-Dichloroethane	1	U
67-64-1	Acetone	10.4	
594-20-7	2,2-Dichloropropane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
74-97-5	Bromochloromethane	1	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	0.43	J
563-58-6	1,1-Dichloropropene	1	U
71-43-2	Benzene	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
108-05-4	Vinyl acetate	2	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

FD-W-060508A

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.P

Lab Code : PEL Case No. SAS No: SDG No.: 2509451

Matrix: WATER Lab Sample ID: 250945105 Lab File ID: 45105.D

Sample wt/vol: 5 Units: ML Date Received: 06/06/08

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/10/08 Time: 0026

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
78-87-5	1,2-Dichloropropane	1	U
74-95-3	Dibromomethane	1	U
75-27-4	Bromodichloromethane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1	U
142-28-9	1,3-Dichloropropane	1	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane(EDB)	1	U
108-90-7	Chlorobenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
100-41-4	Ethylbenzene	1	U
511-39-00	p,m-Xylene	2	U
95-47-6	o-Xylene	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
98-82-8	Isopropylbenzene (Cumene)	1	U
108-86-1	Bromobenzene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
96-18-4	1,2,3-Trichloropropane	1	U
103-65-1	n-Propylbenzene	1	U
95-49-8	2-Chlorotoluene	1	U
106-43-4	4-Chlorotoluene	1	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

FD-W-060508A

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.P

Lab Code : PEL Case No. SAS No: SDG No.: 2509451

Matrix: WATER Lab Sample ID: 250945105 Lab File ID: 45105.D

Sample wt/vol: 5 Units: ML Date Received: 06/06/08

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/10/08 Time: 0026

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
108-67-8	1,3,5-Trimethylbenzene	1	U
98-06-6	tert-Butylbenzene	1	U
95-63-6	1,2,4-Trimethylbenzene	1	U
135-98-8	sec-Butylbenzene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
99-87-6	4-Isopropyltoluene	1	U
104-51-8	n-Butylbenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	2	U
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	1	U
91-20-3	Naphthalene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U
1634-04-4	MTBE	1	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

TB-060508

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.P

Lab Code : PEL Case No. SAS No: SDG No.: 2509451

Matrix: WATER Lab Sample ID: 250945107 Lab File ID: 45107.D

Sample wt/vol: 5 Units: ML Date Received: 06/06/08

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/10/08 Time: 0050

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
75-71-8	Dichlorodifluoromethane	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
75-35-4	1,1-Dichloroethene	1	U
107-02-8	Acrolein	10	U
74-88-4	Methyl iodide	2	U
75-15-0	Carbon disulfide	1	U
75-09-2	Methylene chloride	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
107-13-1	Acrylonitrile	4	U
75-34-3	1,1-Dichloroethane	1	U
67-64-1	Acetone	10	U
594-20-7	2,2-Dichloropropane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
74-97-5	Bromochloromethane	1	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
563-58-6	1,1-Dichloropropene	1	U
71-43-2	Benzene	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
108-05-4	Vinyl acetate	2	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

TB-060508

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.P

Lab Code : PEL Case No. SAS No: SDG No.: 2509451

Matrix: WATER Lab Sample ID: 250945107 Lab File ID: 45107.D

Sample wt/vol: 5 Units: ML Date Received: 06/06/08

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/10/08 Time: 0050

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
78-87-5	1,2-Dichloropropane	1	U
74-95-3	Dibromomethane	1	U
75-27-4	Bromodichloromethane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1	U
142-28-9	1,3-Dichloropropane	1	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane(EDB)	1	U
108-90-7	Chlorobenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
100-41-4	Ethylbenzene	1	U
511-39-00	p,m-Xylene	2	U
95-47-6	o-Xylene	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
98-82-8	Isopropylbenzene (Cumene)	1	U
108-86-1	Bromobenzene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
96-18-4	1,2,3-Trichloropropane	1	U
103-65-1	n-Propylbenzene	1	U
95-49-8	2-Chlorotoluene	1	U
106-43-4	4-Chlorotoluene	1	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

TB-060508

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.P

Lab Code : PEL Case No. SAS No: SDG No.: 2509451

Matrix: WATER Lab Sample ID: 250945107 Lab File ID: 45107.D

Sample wt/vol: 5 Units: ML Date Received: 06/06/08

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/10/08 Time: 0050

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
108-67-8	1,3,5-Trimethylbenzene	1	U
98-06-6	tert-Butylbenzene	1	U
95-63-6	1,2,4-Trimethylbenzene	1	U
135-98-8	sec-Butylbenzene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
99-87-6	4-Isopropyltoluene	1	U
104-51-8	n-Butylbenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	2	U
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	1	U
91-20-3	Naphthalene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U
1634-04-4	MTBE	1	U

QC Summary

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

060908BLKA34

Lab Name: PEL, Spectrum Analytical Contract: SLOP RI \ 364298.01.SL.RI.PW

Lab Code : PEL Case No. SAS No: SDG No.: 2509451

Matrix: WATER Lab Sample ID: 060908BLKA34 Lab File ID: BLK34.D

Sample wt/vol: 5 Units: ML Date Received: 06/09/08

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/09/08 Time: 2003

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
75-71-8	Dichlorodifluoromethane	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
75-35-4	1,1-Dichloroethene	1	U
107-02-8	Acrolein	10	U
74-88-4	Methyl iodide	2	U
75-15-0	Carbon disulfide	1	U
75-09-2	Methylene chloride	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
107-13-1	Acrylonitrile	4	U
75-34-3	1,1-Dichloroethane	1	U
67-64-1	Acetone	10	U
594-20-7	2,2-Dichloropropane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
74-97-5	Bromochloromethane	1	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
563-58-6	1,1-Dichloropropene	1	U
71-43-2	Benzene	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
108-05-4	Vinyl acetate	2	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

060908BLKA34

Lab Name: PEL, Spectrum Analytical Contract: SLOP RI \ 364298.01.SL.RI.PW

Lab Code : PEL Case No. SAS No: SDG No.: 2509451

Matrix: WATER Lab Sample ID: 060908BLKA34 Lab File ID: BLK34.D

Sample wt/vol: 5 Units: ML Date Received: 06/09/08

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/09/08 Time: 2003

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
78-87-5	1,2-Dichloropropane	1	U
74-95-3	Dibromomethane	1	U
75-27-4	Bromodichloromethane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1	U
142-28-9	1,3-Dichloropropane	1	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane(EDB)	1	U
108-90-7	Chlorobenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
100-41-4	Ethylbenzene	1	U
511-39-00	p,m-Xylene	2	U
95-47-6	o-Xylene	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
98-82-8	Isopropylbenzene (Cumene)	1	U
108-86-1	Bromobenzene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
96-18-4	1,2,3-Trichloropropane	1	U
103-65-1	n-Propylbenzene	1	U
95-49-8	2-Chlorotoluene	1	U
106-43-4	4-Chlorotoluene	1	U

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Form I

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

060908BLKA34

Lab Name: PEL, Spectrum Analytical Contract: SLOP RI \ 364298.01.SL.RI.PW

Lab Code : PEL Case No. SAS No: SDG No.: 2509451

Matrix: WATER Lab Sample ID: 060908BLKA34 Lab File ID: BLK34.D

Sample wt/vol: 5 Units: ML Date Received: 06/09/08

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/09/08 Time: 2003

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
108-67-8	1,3,5-Trimethylbenzene	1	U
98-06-6	tert-Butylbenzene	1	U
95-63-6	1,2,4-Trimethylbenzene	1	U
135-98-8	sec-Butylbenzene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
99-87-6	4-Isopropyltoluene	1	U
104-51-8	n-Butylbenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	2	U
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	1	U
91-20-3	Naphthalene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U
1634-04-4	MTBE	1	U

4

VOLATILE ORGANIC METHOD BLANK SUMMARY

EPA Sample No.

060908BLKA34

Lab Name: PEL, Spectrum Analytical Contract: SLOP RI \ 364298.01.SL.RI.PW

Lab Code : PEL Case No. SAS No: SDG No.: 2509451

Lab File ID: BLK34.D Lab Sample ID: 060908BLKA34

Instrument ID: VMS03 Date Extracted:

Matrix: WATER Date Analyzed: 06/09/08

Level:(low/med) LOW Time Analyzed: 2003

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	060908LCSA34	060908LCSA34	LCS34.D	06/09/08	1803
2	060908LCSA34D	060908LCSA34D	LCS34D.D	06/09/08	1827
3	MW-112-W-00	250945101	45101.D	06/09/08	2250
4	MW-110-W-00DL1	250945102DL1	45102D.D	06/09/08	2314
5	MW-107-W-00	250945103	45103.D	06/09/08	2338
6	MW-115-W-00	250945104	45104.D	06/10/08	0002
7	FD-W-060508A	250945105	45105.D	06/10/08	0026
8	TB-060508	250945107	45107.D	06/10/08	0050
9	MW-110-W-00	250945102	45102.D	06/10/08	0338

COMMENTS:

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Form IV

2A

WATER VOLATILE ORGANIC SURROGATE RECOVERY

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.P

Lab Code : PEL Case No. _____ SAS No: _____ SDG NO.: 2509451

Column(1): DB-624 ID: 0.18 (mm)

EPA Sample NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	TOT OUT
060908BLKA34	109.0	104.0	100.0	109.0			0
060908LCSA34	104.0	102.0	99.8	103.0			0
060908LCSA34D	104.0	100.0	98.4	99.8			0
FD-W-060508A	108.0	100.0	96.4	107.0			0
MW-107-W-00	108.0	102.0	99.4	105.0			0
MW-110-W-00	108.0	100.0	103.0	105.0			0
MW-110-W-00DL1	110.0	101.0	98.4	106.0			0
MW-112-W-00	107.0	102.0	101.0	104.0			0
MW-115-W-00	108.0	103.0	97.6	106.0			0
TB-060508	111.0	104.0	98.4	111.0			0

Control Limits

S1	=	Dibromofluoromethane	86 -	118
S2	=	Toluene d8	88 -	110
S3	=	4-Bromofluorobenzene	86 -	115
S4	=	1,2-Dichloroethane-d4	80 -	120

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

Control limit source: (lab/method) METHOD

Form II

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VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.PW

Lab Code : PEL Case No. SAS No: SDG No.: 2509451

Lab File ID: BFB32.D BFB Injection Date: 06/03/08

Instrument ID: VMS03 BFB Injection Time: 0550

GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) NO

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0% of mass 95	20.2	
75	30.0 - 60.0% of mass 95	47.4	
95	Base Peak, 100% relative abundance	100	
96	5.0 - 9.0% of mass 95	6.4	
173	Less than 2.0% of mass 174	0.2	(0.3)1
174	50.0 - 100.0% of mass 95	71.5	
175	5.0 - 9.0% of mass 174	5.2	(7.3)1
176	Greater than 95.0%, but less than 101.0% of mass 174	70.5	(98.5)1
177	5.0 - 9.0% of mass 176	4.5	(6.4)2

1-Value is % of mass 174

2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	STD609685	1PPBCAL	1PPB.D	06/03/08	0701
2	STD609687	2PPBCAL	2PPB.D	06/03/08	0725
3	STD609689	5PPBCAL	5PPB.D	06/03/08	0749
4	STD609684	10PPBCAL	10PPB.D	06/03/08	0813
5	STD609686	20PPBCAL	20PPB.D	06/03/08	0837
6	STD609688	50PPBCAL	50PPB.D	06/03/08	0901
7	STD609690	60PPBCAL	60PPB.D	06/03/08	0925
8	STD609691	80PPBCAL	80PPB.D	06/03/08	0949
9	SSC609724	SEC32	SEC32.D	06/03/08	1051

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.PW

Lab Code : PEL Case No. SAS No: SDG No.: 2509451

Lab File ID: BFB32.D BFB Injection Date: 06/09/08

Instrument ID: VMS03 BFB Injection Time: 1651

GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) NO

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0% of mass 95	23.7	
75	30.0 - 60.0% of mass 95	51.4	
95	Base Peak, 100% relative abundance	100	
96	5.0 - 9.0% of mass 95	6.8	
173	Less than 2.0% of mass 174	0.2	(0.3)1
174	50.0 - 100.0% of mass 95	68.4	
175	5.0 - 9.0% of mass 174	5	(7.3)1
176	Greater than 95.0%, but less than 101.0% of mass 174	65.9	(96.4)1
177	5.0 - 9.0% of mass 176	4	(6)2

1-Value is % of mass 174

2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CCV611164	060908CCVA34	50CCV34.D	06/09/08	1739
2	060908LCSA34	060908LCSA34	LCS34.D	06/09/08	1803
3	060908LCSA34D	060908LCSA34	LCS34D.D	06/09/08	1827
4	060908BLKA34	060908BLKA34	BLK34.D	06/09/08	2003
5	MW-112-W-00	250945101	45101.D	06/09/08	2250
6	MW-110-W-00DL1	250945102DL1	45102D.D	06/09/08	2314
7	MW-107-W-00	250945103	45103.D	06/09/08	2338
8	MW-115-W-00	250945104	45104.D	06/10/08	0002
9	FD-W-060508A	250945105	45105.D	06/10/08	0026
10	TB-060508	250945107	45107.D	06/10/08	0050
11	MW-110-W-00	250945102	45102.D	06/10/08	0338

8A

VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.PW

Lab Code : PEL Case No. SAS No: SDG No.: 2509451

Lab File ID (Standard): 50PPB.D Date Analyzed: 6/3/2008

Instrument ID: VMS03 Time Analyzed: 9:01

GC Column: DB-624 ID: 0.18 (mm)

Matrix: (soil/water) W Heated Purge: (Y/N) No

		IS1 AREA	#	RT	IS2 AREA	#	RT	IS3 AREA	#	RT
	MID CAL STD	931353		10.56	491435		12.97	1230755		7.25
	UPPER LIMIT	1862706		11.06	982870		13.47	2461510		7.75
	LOWER LIMIT	465676.5		10.06	245717.5		12.47	615377.5		6.75
	EPA SAMPLE NO.									
1	060908LCSA34	704466		10.56	384265		12.98	898126		7.26
2	060908LCSA34D	709212		10.56	389657		12.98	907199		7.26
3	060908BLKA34	708627		10.57	373281		12.98	901039		7.26
4	MW-112-W-00	699824		10.56	362130		12.98	887571		7.26
5	MW-110-W-00DL1	676022		10.56	364848		12.98	877522		7.26
6	MW-107-W-00	691383		10.56	365109		12.98	871927		7.26
7	MW-115-W-00	684753		10.56	369015		12.98	873734		7.26
8	FD-W-060508A	681013		10.56	366591		12.98	864727		7.26
9	TB-060508	688399		10.56	364144		12.98	860217		7.26
10	MW-110-W-00	670817		10.56	344529		12.98	855652		7.26

IS1 = Chlorobenzene d5

IS2 = 1,4-Dichlorobenzene-d4

IS3 = Fluorobenzene

UPPER LIMIT = +100% of internal standard area.
LOWER LIMIT = -50% of internal standard area

Column used to flag internal standard area values with an asterisk

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FORM VIII

VOLATILE ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.P 060908LCSA34

Lab Code : PEL Case No. SAS No: SDG No.: 2509451

COMPOUND	SPIKE ADDED UG/L	LCS CONCENTRATION UG/L	LCS % REC #	LCS % RPD	QC LIMITS RPD	QC LIMITS REC.
Dichlorodifluoromethane	20	20.2	101.0		20.0	62 - 133
Chloromethane	20	20.1	100.0		20.0	63 - 124
Vinyl chloride	20	21.3	106.0		20.0	60 - 124
Bromomethane	20	22.1	110.0		20.0	58 - 144
Chloroethane	20	20	100.0		20.0	72 - 135
Trichlorofluoromethane	20	22.9	114.0		21.0	74 - 135
1,1-Dichloroethene	20	22.8	114.0		20.0	81 - 119
Acrolein	60	73.3	122.0		20.0	61 - 125
Methyl iodide	20	21.1	106.0		20.0	56 - 133
Carbon disulfide	20	18.8	94.0		20.0	65 - 121
Methylene chloride	20	22.4	112.0 *		20.0	75 - 111
trans-1,2-Dichloroethene	20	22.2	111.0		20.0	79 - 121
Acrylonitrile	60	67.5	112.0		20.0	62 - 132
1,1-Dichloroethane	20	21.1	106.0		20.0	76 - 118
Acetone	60	69	115.0		20.0	45 - 156
2,2-Dichloropropane	20	20.2	101.0		20.0	52 - 147
cis-1,2-Dichloroethene	20	20.2	101.0		20.0	75 - 123
Bromochloromethane	20	21.1	106.0		20.0	70 - 116
2-Butanone	60	82.1	137.0 *		20.0	76 - 124
Chloroform	20	21.3	106.0		20.0	80 - 115
1,1,1-Trichloroethane	20	22.8	114.0		20.0	79 - 123
Carbon tetrachloride	20	20.3	102.0		20.0	67 - 138
1,1-Dichloropropene	20	21.4	107.0		20.0	80 - 119
Benzene	20	18.9	94.5		20.0	71 - 120
1,2-Dichloroethane	20	22.6	113.0		20.0	83 - 114
Trichloroethene	20	19.8	99.0		20.0	76 - 123
Vinyl acetate	20	21.1	106.0		20.0	49 - 136
1,2-Dichloropropane	20	19.7	98.5		20.0	74 - 118
Dibromomethane	20	21.2	106.0		20.0	75 - 119
Bromodichloromethane	20	20.8	104.0		20.0	78 - 117
cis-1,3-Dichloropropene	20	19.9	99.5		20.0	63 - 129
4-Methyl-2-pentanone	60	64.5	108.0		20.0	61 - 134

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS:

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Form III

VOLATILE ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.

060908LCSA34

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.P

Lab Code : PEL Case No. SAS No: SDG No.: 2509451

COMPOUND	SPIKE ADDED UG/L	LCS CONCENTRATION UG/L	LCS % REC #	LCS % RPD	QC LIMITS RPD	QC LIMITS REC.
Toluene	20	20.1	100.0		20.0	75 - 119
trans-1,3-Dichloropropene	20	21.7	108.0		20.0	68 - 127
1,1,2-Trichloroethane	20	20.3	102.0		20.0	80 - 117
Tetrachloroethene	20	19.8	99.0		20.0	70 - 130
1,3-Dichloropropane	20	19.8	99.0		20.0	83 - 112
2-Hexanone	60	71.9	120.0		20.0	75 - 132
Dibromochloromethane	20	19.6	98.0		20.0	78 - 123
1,2-Dibromoethane(EDB)	20	20.1	100.0		20.0	84 - 121
Chlorobenzene	20	18.7	93.5		20.0	70 - 130
1,1,1,2-Tetrachloroethane	20	19.8	99.0		20.0	75 - 133
Ethylbenzene	20	18.4	92.0		20.0	70 - 130
p,m-Xylene	40	37.9	94.8		20.0	70 - 130
o-Xylene	20	19.8	99.0		20.0	70 - 130
Styrene	20	19.4	97.0		20.0	70 - 130
Bromoform	20	21.1	106.0		20.0	71 - 128
Isopropylbenzene (Cumene)	20	18.8	94.0		20.0	83 - 123
Bromobenzene	20	17.2	86.0		20.0	74 - 120
1,1,2,2-Tetrachloroethane	20	18.8	94.0		20.0	84 - 113
1,2,3-Trichloropropane	20	22.3	112.0		20.0	84 - 119
n-Propylbenzene	20	19.1	95.5		20.0	82 - 121
2-Chlorotoluene	20	19.4	97.0		20.0	70 - 130
4-Chlorotoluene	20	19.5	97.5		20.0	83 - 123
1,3,5-Trimethylbenzene	20	20.1	100.0		20.0	84 - 124
tert-Butylbenzene	20	19.8	99.0		20.0	82 - 125
1,2,4-Trimethylbenzene	20	19.9	99.5		20.0	82 - 124
sec-Butylbenzene	20	19.6	98.0		20.0	83 - 122
1,3-Dichlorobenzene	20	18.8	94.0		20.0	84 - 118
1,4-Dichlorobenzene	20	19.4	97.0		20.0	70 - 130
4-Isopropyltoluene	20	20.5	102.0		20.0	83 - 126
n-Butylbenzene	20	19.3	96.5		20.0	83 - 125
1,2-Dichlorobenzene	20	19.3	96.5		20.0	70 - 130
1,2-Dibromo-3-chloropropane	20	23.7	118.0		20.0	63 - 130

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS:

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Form III

3

VOLATILE ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.

060908LCSA34

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.P

Lab Code : PEL Case No. SAS No: SDG No.: 2509451

COMPOUND	SPIKE ADDED UG/L	LCS CONCENTRATION UG/L	LCS % REC #	LCS % RPD	QC LIMITS RPD	QC LIMITS REC.
1,2,4-Trichlorobenzene	20	22.3	112.0		20.0	83 - 123
Hexachlorobutadiene	20	23.2	116.0		20.0	68 - 149
Naphthalene	20	20.7	104.0		20.0	80 - 131
1,2,3-Trichlorobenzene	20	23.9	120.0		20.0	73 - 141
MTBE	20	20.9	104.0		20.0	76 - 123

Spike Recovery: 2 out of 69 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS:

120708 324

Form III

3

VOLATILE ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.

060908LCSA34D

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.P

Lab Code : PEL Case No. SAS No: SDG No.: 2509451

COMPOUND	SPIKE ADDED UG/L	LCS CONCENTRATION UG/L	LCS % REC #	LCS % RPD	QC LIMITS RPD	QC LIMITS REC.
Dichlorodifluoromethane	20	17.2	86.0	16.0	20.0	62 - 133
Chloromethane	20	20	100.0	0.5	20.0	63 - 124
Vinyl chloride	20	20.2	101.0	5.3	20.0	60 - 124
Bromomethane	20	21.7	108.0	1.8	20.0	58 - 144
Chloroethane	20	21.3	106.0	6.3	20.0	72 - 135
Trichlorofluoromethane	20	20.6	103.0	10.6	21.0	74 - 135
1,1-Dichloroethene	20	21.2	106.0	7.3	20.0	81 - 119
Acrolein	60	64.4	107.0	12.9	20.0	61 - 125
Methyl iodide	20	19.3	96.5	8.9	20.0	56 - 133
Carbon disulfide	20	17.4	87.0	7.7	20.0	65 - 121
Methylene chloride	20	21.7	108.0	3.2	20.0	75 - 111
trans-1,2-Dichloroethene	20	21.1	106.0	5.1	20.0	79 - 121
Acrylonitrile	60	63.5	106.0	6.1	20.0	62 - 132
1,1-Dichloroethane	20	19.9	99.5	5.9	20.0	76 - 118
Acetone	60	59	98.3	15.6	20.0	45 - 156
2,2-Dichloropropane	20	18.1	90.5	11.0	20.0	52 - 147
cis-1,2-Dichloroethene	20	19.3	96.5	4.6	20.0	75 - 123
Bromochloromethane	20	20.7	104.0	1.9	20.0	70 - 116
2-Butanone	60	78.1	130.0 *	5.0	20.0	76 - 124
Chloroform	20	20.6	103.0	3.3	20.0	80 - 115
1,1,1-Trichloroethane	20	21.4	107.0	6.3	20.0	79 - 123
Carbon tetrachloride	20	19.7	98.5	3.0	20.0	67 - 138
1,1-Dichloropropene	20	19.9	99.5	7.3	20.0	80 - 119
Benzene	20	18	90.0	4.9	20.0	71 - 120
1,2-Dichloroethane	20	22.6	113.0	0.0	20.0	83 - 114
Trichloroethene	20	19	95.0	4.1	20.0	76 - 123
Vinyl acetate	20	20.5	102.0	2.9	20.0	49 - 136
1,2-Dichloropropane	20	19.4	97.0	1.5	20.0	74 - 118
Dibromomethane	20	20.1	100.0	5.3	20.0	75 - 119
Bromodichloromethane	20	20.2	101.0	2.9	20.0	78 - 117
cis-1,3-Dichloropropene	20	19.4	97.0	2.5	20.0	63 - 129
4-Methyl-2-pentanone	60	66.7	111.0	3.4	20.0	61 - 134

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS:

120708 324

Form III

VOLATILE ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.

060908LCSA34D

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.P

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2509451

COMPOUND	SPIKE ADDED UG/L	LCS CONCENTRATION UG/L	LCS % REC #	LCS % RPD	QC LIMITS RPD	QC LIMITS REC.
Toluene	20	18.7	93.5	7.2	20.0	75 - 119
trans-1,3-Dichloropropene	20	20.5	102.0	5.7	20.0	68 - 127
1,1,2-Trichloroethane	20	20	100.0	1.5	20.0	80 - 117
Tetrachloroethene	20	18.6	93.0	6.2	20.0	70 - 130
1,3-Dichloropropane	20	19	95.0	4.1	20.0	83 - 112
2-Hexanone	60	65.2	109.0	9.8	20.0	75 - 132
Dibromochloromethane	20	19.5	97.5	0.5	20.0	78 - 123
1,2-Dibromoethane(EDB)	20	19.4	97.0	3.5	20.0	84 - 121
Chlorobenzene	20	18.5	92.5	1.1	20.0	70 - 130
1,1,1,2-Tetrachloroethane	20	19.2	96.0	3.1	20.0	75 - 133
Ethylbenzene	20	18.3	91.5	0.5	20.0	70 - 130
p,m-Xylene	40	36	90.0	5.1	20.0	70 - 130
o-Xylene	20	18.9	94.5	4.7	20.0	70 - 130
Styrene	20	18.5	92.5	4.7	20.0	70 - 130
Bromoform	20	19.3	96.5	8.9	20.0	71 - 128
Isopropylbenzene (Cumene)	20	18.3	91.5	2.7	20.0	83 - 123
Bromobenzene	20	17.1	85.5	0.6	20.0	74 - 120
1,1,2,2-Tetrachloroethane	20	17.6	88.0	6.6	20.0	84 - 113
1,2,3-Trichloropropane	20	21.7	108.0	2.7	20.0	84 - 119
n-Propylbenzene	20	17.8	89.0	7.0	20.0	82 - 121
2-Chlorotoluene	20	18.9	94.5	2.6	20.0	70 - 130
4-Chlorotoluene	20	19.1	95.5	2.1	20.0	83 - 123
1,3,5-Trimethylbenzene	20	19.1	95.5	5.1	20.0	84 - 124
tert-Butylbenzene	20	19	95.0	4.1	20.0	82 - 125
1,2,4-Trimethylbenzene	20	18.7	93.5	6.2	20.0	82 - 124
sec-Butylbenzene	20	18.4	92.0	6.3	20.0	83 - 122
1,3-Dichlorobenzene	20	18.1	90.5	3.8	20.0	84 - 118
1,4-Dichlorobenzene	20	18.8	94.0	3.1	20.0	70 - 130
4-Isopropyltoluene	20	18.8	94.0	8.7	20.0	83 - 126
n-Butylbenzene	20	18.2	91.0	5.9	20.0	83 - 125
1,2-Dichlorobenzene	20	18.4	92.0	4.8	20.0	70 - 130
1,2-Dibromo-3-chloropropane	20	20.6	103.0	14.0	20.0	63 - 130

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

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Form III

3

VOLATILE ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.

060908LCSA34D

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.P

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2509451

COMPOUND	SPIKE ADDED UG/L	LCS CONCENTRATION UG/L	LCS % REC #	LCS % RPD	QC LIMITS RPD	QC LIMITS REC.
1,2,4-Trichlorobenzene	20	20.3	102.0	9.4	20.0	83 - 123
Hexachlorobutadiene	20	19.8	99.0	15.8	20.0	68 - 149
Naphthalene	20	18.2	91.0	12.9	20.0	80 - 131
1,2,3-Trichlorobenzene	20	21.6	108.0	10.1	20.0	73 - 141
MTBE	20	20.5	102.0	1.9	20.0	76 - 123

Spike Recovery: 1 out of 69 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

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Form III

Standards Data

120708 324

VOLATILE ORGANIC INITIAL CALIBRATION DATA

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.PW

Lab Code : PEL Case No. SAS No: SDG No.: 2509451

Instrument ID: VMS03 Calibration Date Begin: 06/03/08 End: 06/03/08

GC Column: DB-624 ID: 0.18 (mm) Calibration Time Begin: 701 End: 949

Min RRF for SPCC(#) = 0.1 Max %RSD for CCC(*) = 30 %

LAB FILE ID: RRF1 =1PPB.D RRF2 =2PPB.D
RRF5 =5PPB.D RRF10 =10PPB.D RRF20 =20PPB.D

COMPOUND		RRF1	RRF2	RRF5	RRF10	RRF20	$\overline{RRF}$	%RSD OR R^2
Dichlorodifluoromethane		0.261	0.263	0.239	0.239	0.249		
Chloromethane	#	0.564	0.498	0.456	0.408	0.410		#
Vinyl chloride	*	0.351	0.354	0.323	0.288	0.281		*
Bromomethane		0.160	0.185	0.161	0.163	0.162		
Chloroethane		0.303	0.354	0.243	0.226	0.209		
Trichlorofluoromethane		0.433	0.421	0.396	0.372	0.361		
1,1-Dichloroethene	*	0.515	0.519	0.486	0.508	0.480		*
Acrolein			0.033	0.037	0.045	0.037		
Methyl iodide		0.329	0.385	0.375	0.359	0.361		
Carbon disulfide		0.806	0.831	0.744	0.707	0.698		
Methylene chloride		1.045	0.773	0.762	0.710	0.570		
trans-1,2-Dichloroethene		0.511	0.455	0.486	0.527	0.478		
Acrylonitrile		0.124	0.130	0.125	0.123	0.125		
1,1-Dichloroethane	#	0.651	0.578	0.574	0.625	0.548		#
Acetone				0.117	0.091	0.081		
2,2-Dichloropropane		0.203	0.190	0.185	0.202	0.176		
cis-1,2-Dichloroethene		0.363	0.307	0.322	0.348	0.323		
Bromochloromethane		0.427	0.327	0.347	0.375	0.335		
2-Butanone		0.168	0.202	0.137	0.132	0.132		
Chloroform	*	0.613	0.520	0.552	0.590	0.520		*
1,1,1-Trichloroethane		0.391	0.366	0.373	0.417	0.363		
Carbon tetrachloride		0.321	0.327	0.358	0.366	0.336		
1,1-Dichloropropene		0.437	0.409	0.420	0.452	0.394		
Benzene		1.354	1.321	1.257	1.376	1.194		
1,2-Dichloroethane		0.454	0.416	0.432	0.469	0.416		
Trichloroethene		0.368	0.301	0.301	0.324	0.269		
Vinyl acetate		0.866	0.778	0.690	0.668	0.668		
1,2-Dichloropropane	*	0.389	0.346	0.346	0.387	0.345		*
Dibromomethane		0.218	0.177	0.183	0.198	0.178		
Bromodichloromethane		0.424	0.391	0.404	0.438	0.384		
cis-1,3-Dichloropropene		0.415	0.384	0.389	0.439	0.402		
4-Methyl-2-pentanone		1.044	1.046	1.168	0.873	0.917		
Toluene	*	0.890	0.732	0.761	0.820	0.726		*
trans-1,3-Dichloropropene		0.327	0.291	0.305	0.363	0.338		

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FORM VI

VOLATILE ORGANIC INITIAL CALIBRATION DATA

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.PW

Lab Code : PEL Case No. SAS No: SDG No.: 2509451

Instrument ID: VMS03 Calibration Date Begin: 06/03/08 End: 06/03/08

GC Column: DB-624 ID: 0.18 (mm) Calibration Time Begin: 701 End: 949

Min RRF for SPCC(#) = 0.1 Max %RSD for CCC(*) = 30 %

LAB FILE ID: RRF1 =1PPB.D RRF2 =2PPB.D
RRF5 =5PPB.D RRF10 =10PPB.D RRF20 =20PPB.D

COMPOUND		RRF1	RRF2	RRF5	RRF10	RRF20	$\overline{RRF}$	%RSD OR R^2	
1,1,2-Trichloroethane		0.285	0.265	0.251	0.289	0.251			
Tetrachloroethene		0.364	0.330	0.283	0.320	0.279			
1,3-Dichloropropane		0.762	0.635	0.622	0.694	0.621			
2-Hexanone		0.352	0.327	0.294	0.310	0.303			
Dibromochloromethane		0.393	0.356	0.347	0.400	0.358			
1,2-Dibromoethane(EDB)		0.391	0.341	0.323	0.374	0.341			
Chlorobenzene	#	1.369	1.208	1.141	1.251	1.103			#
1,1,1,2-Tetrachloroethane		0.365	0.346	0.347	0.391	0.344			
Ethylbenzene	*	0.761	0.618	0.611	0.665	0.595			*
p,m-Xylene		0.868	0.761	0.751	0.832	0.718			
o-Xylene		1.861	1.604	1.596	1.692	1.518			
Styrene		1.368	1.287	1.265	1.427	1.276			
Bromoform	#	0.237	0.183	0.202	0.235	0.201			#
Isopropylbenzene (Cumene)		3.983	3.510	3.610	3.743	3.368			
Bromobenzene		1.942	1.686	1.861	1.723	1.545			
1,1,2,2-Tetrachloroethane	#	1.000	0.884	0.863	0.967	0.821			#
1,2,3-Trichloropropane		0.296	0.257	0.251	0.290	0.238			
n-Propylbenzene		4.809	4.201	4.434	4.730	4.277			
2-Chlorotoluene		3.515	3.200	3.203	3.286	2.911			
4-Chlorotoluene		3.274	3.143	3.117	3.256	2.862			
1,3,5-Trimethylbenzene		3.183	2.875	2.917	3.152	2.891			
tert-Butylbenzene		2.750	2.581	2.574	2.816	2.494			
1,2,4-Trimethylbenzene		3.508	3.161	3.076	3.352	3.010			
sec-Butylbenzene		3.849	3.438	3.330	3.812	3.364			
1,3-Dichlorobenzene		1.896	1.736	1.697	1.845	1.603			
1,4-Dichlorobenzene		1.888	1.731	1.620	1.856	1.610			
4-Isopropyltoluene		2.867	2.525	2.712	2.970	2.643			
n-Butylbenzene		2.697	2.545	2.514	2.764	2.464			
1,2-Dichlorobenzene		1.793	1.639	1.564	1.727	1.487			
1,2-Dibromo-3-chloropropane			0.130	0.114	0.134	0.128			
1,2,4-Trichlorobenzene		0.829	0.745	0.777	0.881	0.810			
Hexachlorobutadiene		0.232	0.167	0.175	0.181	0.160			
Naphthalene		2.676	2.079	1.863	2.056	1.831			
1,2,3-Trichlorobenzene		0.715	0.603	0.659	0.752	0.678			

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FORM VI

VOLATILE ORGANIC INITIAL CALIBRATION DATA

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.PW

Lab Code : PEL Case No. SAS No: SDG No.: 2509451

Instrument ID: VMS03 Calibration Date Begin: 06/03/08 End: 06/03/08

GC Column: DB-624 ID: 0.18 (mm) Calibration Time Begin: 701 End: 949

Min RRF for SPCC(#) = 0.1 Max %RSD for CCC(*) = 30 %

LAB FILE ID: RRF1 =1PPB.D RRF2 =2PPB.D
RRF5 =5PPB.D RRF10 =10PPB.D RRF20 =20PPB.D

COMPOUND	RRF1	RRF2	RRF5	RRF10	RRF20	$\overline{RRF}$	%RSD OR R^2
MTBE	0.701	0.728	0.736	0.744	0.732		
==========							
Dibromofluoromethane(SURR)		0.306	0.261	0.284	0.251		
Toluene d8(SURR)		1.183	1.042	1.093	0.994		
4-Bromofluorobenzene(SURR)		1.236	1.035	1.095	1.016		
1,2-Dichloroethane-d4(SURR)		0.072	0.058	0.070	0.060		

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FORM VI

VOLATILE ORGANIC INITIAL CALIBRATION DATA

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.PW

Lab Code : PEL Case No. SAS No: SDG No.: 2509451

Instrument ID: VMS03 Calibration Date Begin: 06/03/08 End: 06/03/08

GC Column: DB-624 ID: 0.18 (mm) Calibration Time Begin: 701 End: 949

Min RRF for SPCC(#) = 0.1 Max %RSD for CCC(*) = 30 %

LAB FILE ID: RRF50 =50PPB.D RRF60 =60PPB.D
RRF80 =80PPB.D

COMPOUND		RRF50	RRF60	RRF80			$\overline{RRF}$	%RSD OR R^2	
Dichlorodifluoromethane		0.263	0.240	0.233			0.2486	4.9	
Chloromethane	#	0.404	0.402	0.391			0.44154	13.8	#
Vinyl chloride	*	0.254	0.253	0.250			0.29425	0.99975	*
Bromomethane		0.159	0.155	0.152			0.16206	6	
Chloroethane		0.195	0.193	0.188			0.23889	0.99991	
Trichlorofluoromethane		0.385	0.378	0.373			0.38979	6.5	
1,1-Dichloroethene	*	0.472	0.443	0.497			0.48993	5.2	*
Acrolein		0.039	0.037	0.037			0.03804	9.7	
Methyl iodide		0.384	0.378	0.388			0.36987	5.3	
Carbon disulfide		0.747	0.738	0.750			0.75271	6	
Methylene chloride		0.579	0.542	0.530			0.68901	0.99882	
trans-1,2-Dichloroethene		0.515	0.490	0.504			0.49585	4.7	
Acrylonitrile		0.129	0.127	0.129			0.12622	2	
1,1-Dichloroethane	#	0.593	0.583	0.597			0.59359	5.3	#
Acetone		0.079	0.077	0.076			0.08683	0.99965	
2,2-Dichloropropane		0.197	0.196	0.198			0.1934	4.7	
cis-1,2-Dichloroethene		0.336	0.329	0.332			0.33256	5.2	
Bromochloromethane		0.356	0.345	0.346			0.35719	8.8	
2-Butanone		0.133	0.129	0.136			0.14612	0.99954	
Chloroform	*	0.551	0.534	0.544			0.55289	6	*
1,1,1-Trichloroethane		0.397	0.380	0.400			0.38582	4.9	
Carbon tetrachloride		0.372	0.356	0.377			0.35148	6	
1,1-Dichloropropene		0.427	0.398	0.417			0.41932	4.7	
Benzene		1.294	1.231	1.271			1.28705	4.8	
1,2-Dichloroethane		0.445	0.423	0.429			0.43561	4.4	
Trichloroethene		0.292	0.286	0.288			0.30356	10	
Vinyl acetate		0.719	0.720	0.756			0.73307	9.1	
1,2-Dichloropropane	*	0.370	0.354	0.369			0.36322	5	*
Dibromomethane		0.187	0.178	0.184			0.18806	7.4	
Bromodichloromethane		0.416	0.398	0.407			0.40761	4.4	
cis-1,3-Dichloropropene		0.453	0.443	0.448			0.42166	6.5	
4-Methyl-2-pentanone		0.958	1.040	0.748			0.97417	13.2	
Toluene	*	0.781	0.758	0.775			0.78029	6.8	*
trans-1,3-Dichloropropene		0.380	0.375	0.386			0.34548	10.4	

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FORM VI

VOLATILE ORGANIC INITIAL CALIBRATION DATA

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.PW

Lab Code : PEL Case No. SAS No: SDG No.: 2509451

Instrument ID: VMS03 Calibration Date Begin: 06/03/08 End: 06/03/08

GC Column: DB-624 ID: 0.18 (mm) Calibration Time Begin: 701 End: 949

Min RRF for SPCC(#) = 0.1 Max %RSD for CCC(*) = 30 %

LAB FILE ID: RRF50 =50PPB.D RRF60 =60PPB.D
RRF80 =80PPB.D

COMPOUND		RRF50	RRF60	RRF80			$\overline{RRF}$	%RSD OR R^2	
1,1,2-Trichloroethane		0.262	0.249	0.256			0.26361	5.9	
Tetrachloroethene		0.286	0.292	0.298			0.30662	9.6	
1,3-Dichloropropane		0.614	0.631	0.641			0.65253	7.8	
2-Hexanone		0.304	0.304	0.310			0.3131	5.8	
Dibromochloromethane		0.379	0.394	0.397			0.37814	5.6	
1,2-Dibromoethane(EDB)		0.345	0.353	0.352			0.35257	6	
Chlorobenzene	#	1.099	1.123	1.126			1.17739	8	#
1,1,1,2-Tetrachloroethane		0.355	0.366	0.364			0.35976	4.3	
Ethylbenzene	*	0.594	0.606	0.607			0.63229	9	*
p,m-Xylene		0.737	0.749	0.760			0.77208	6.6	
o-Xylene		1.563	1.587	1.632			1.6317	6.5	
Styrene		1.307	1.344	1.353			1.32848	4.1	
Bromoform	#	0.228	0.234	0.238			0.21974	9.7	#
Isopropylbenzene (Cumene)		3.488	3.393	3.474			3.57124	5.7	
Bromobenzene		1.579	1.562	1.574			1.68393	8.9	
1,1,2,2-Tetrachloroethane	#	0.830	0.824	0.832			0.8774	7.9	#
1,2,3-Trichloropropane		0.246	0.249	0.243			0.25881	8.5	
n-Propylbenzene		4.369	4.263	4.354			4.42952	5	
2-Chlorotoluene		2.989	2.982	3.054			3.14255	6.3	
4-Chlorotoluene		2.871	2.841	2.871			3.02936	6.2	
1,3,5-Trimethylbenzene		2.951	2.918	2.983			2.98371	4	
tert-Butylbenzene		2.557	2.506	2.566			2.60548	4.4	
1,2,4-Trimethylbenzene		3.083	3.020	3.073			3.16039	5.6	
sec-Butylbenzene		3.454	3.403	3.452			3.51265	5.7	
1,3-Dichlorobenzene		1.628	1.634	1.641			1.71	6.4	
1,4-Dichlorobenzene		1.648	1.631	1.649			1.70397	6.5	
4-Isopropyltoluene		2.726	2.721	2.742			2.73815	4.9	
n-Butylbenzene		2.636	2.610	2.680			2.61374	3.9	
1,2-Dichlorobenzene		1.556	1.523	1.551			1.60492	6.6	
1,2-Dibromo-3-chloropropane		0.128	0.130	0.133			0.12813	5.1	
1,2,4-Trichlorobenzene		0.841	0.832	0.832			0.81831	5.1	
Hexachlorobutadiene		0.167	0.172	0.167			0.17765	12.9	
Naphthalene		1.938	1.935	1.934			2.03898	13.3	
1,2,3-Trichlorobenzene		0.695	0.690	0.699			0.68622	6.3	

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FORM VI

VOLATILE ORGANIC INITIAL CALIBRATION DATA

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.PW

Lab Code : PEL Case No. SAS No: SDG No.: 2509451

Instrument ID: VMS03 Calibration Date Begin: 06/03/08 End: 06/03/08

GC Column: DB-624 ID: 0.18 (mm) Calibration Time Begin: 701 End: 949

Min RRF for SPCC(#) = 0.1 Max %RSD for CCC(*) = 30 %

LAB FILE ID: RRF50 =50PPB.D RRF60 =60PPB.D
RRF80 =80PPB.D

COMPOUND	RRF50	RRF60	RRF80			$\overline{RRF}$	%RSD OR R^2
MTBE	0.797	0.776	0.816			0.75377	5.2
Dibromofluoromethane(SURR)	0.287	0.281	0.286			0.27937	6.5
Toluene d8(SURR)	1.122	1.084	1.105			1.0889	5.5
4-Bromofluorobenzene(SURR)	1.071	1.076	1.077			1.08658	6.5
1,2-Dichloroethane-d4(SURR)	0.067	0.064	0.065			0.06521	7.7

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FORM VI

7SSC

VOLATILE ORGANIC SECONDARY SOURCE CALIBRATION DATA

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.PW

Lab Code : PEL Case No. SAS No: SDG No.: 2509451

Instrument ID: VMS03 CalibrationDate: 06/03/08 Time: 1051

CCV ID: SSC609724 Lab File ID: SEC32.D Init. Calib. Date Begin: 06/03/08 End: 06/03/08

GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) NO

Min RRF for SPCC(#) = 0.1 Max %D for CCC(*) = 20 %

COMPOUND		Expected	Found	%D / %Drift	Curve Type	
Dichlorodifluoromethane		0.2486	0.23685	4.7	AVRG	
Chloromethane	#	0.44154	0.38889	11.9	AVRG	#
Vinyl chloride	*	50	47.2	5.6	2ORD	*
Bromomethane		0.16206	0.15551	4.0	AVRG	
Chloroethane		50	49.5	1.0	2ORD	
Trichlorofluoromethane		0.38979	0.37813	3.0	AVRG	
1,1-Dichloroethene	*	0.48993	0.49066	0.1	AVRG	*
Acrolein		0.03804	0.03801	0.1	AVRG	
Methyl iodide		0.36987	0.37714	2.0	AVRG	
Carbon disulfide		0.75271	0.72844	3.2	AVRG	
Methylene chloride		50	46.1	7.8	2ORD	
trans-1,2-Dichloroethene		0.49585	0.49172	0.8	AVRG	
Acrylonitrile		0.12622	0.12903	2.2	AVRG	
1,1-Dichloroethane	#	0.59359	0.57687	2.8	AVRG	#
Acetone		80	82.6	3.2	2ORD	
2,2-Dichloropropane		0.1934	0.18635	3.6	AVRG	
cis-1,2-Dichloroethene		0.33256	0.32223	3.1	AVRG	
Bromochloromethane		0.35719	0.32835	8.1	AVRG	
2-Butanone		80	80.8	1.0	2ORD	
Chloroform	*	0.55289	0.52246	5.5	AVRG	*
1,1,1-Trichloroethane		0.38582	0.3882	0.6	AVRG	
Carbon tetrachloride		0.35148	0.35034	0.3	AVRG	
1,1-Dichloropropene		0.41932	0.4105	2.1	AVRG	
Benzene		1.28705	1.201	6.7	AVRG	
1,2-Dichloroethane		0.43561	0.40941	6.0	AVRG	
Trichloroethene		0.30356	0.28042	7.6	AVRG	
Vinyl acetate		0.73307	0.70287	4.1	AVRG	
1,2-Dichloropropane	*	0.36322	0.35491	2.3	AVRG	*
Dibromomethane		0.18806	0.17758	5.6	AVRG	
Bromodichloromethane		0.40761	0.38711	5.0	AVRG	
cis-1,3-Dichloropropene		0.42166	0.41939	0.5	AVRG	
4-Methyl-2-pentanone		0.97417	0.96556	0.9	AVRG	
Toluene	*	0.78029	0.76172	2.4	AVRG	*
trans-1,3-Dichloropropene		0.34548	0.36177	4.7	AVRG	
1,1,2-Trichloroethane		0.26361	0.24703	6.3	AVRG	
Tetrachloroethene		0.30662	0.29144	5.0	AVRG	

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FORM VII

7SSC

VOLATILE ORGANIC SECONDARY SOURCE CALIBRATION DATA

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.PW

Lab Code : PEL Case No. SAS No: SDG No.: 2509451

Instrument ID: VMS03 CalibrationDate: 06/03/08 Time: 1051

CCV ID: SSC609724 Lab File ID: SEC32.D Init. Calib. Date Begin: 06/03/08 End: 06/03/08

GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) NO

Min RRF for SPCC(#) = 0.1 Max %D for CCC(*) = 20 %

COMPOUND		Expected	Found	%D / %Drift	Curve Type	
1,3-Dichloropropane		0.65253	0.61236	6.2	AVRG	
2-Hexanone		0.3131	0.30846	1.5	AVRG	
Dibromochloromethane		0.37814	0.37272	1.4	AVRG	
1,2-Dibromoethane(EDB)		0.35257	0.3361	4.7	AVRG	
Chlorobenzene	#	1.17739	1.109	5.8	AVRG	#
1,1,1,2-Tetrachloroethane		0.35976	0.35657	0.9	AVRG	
Ethylbenzene	*	0.63229	0.60668	4.1	AVRG	*
p,m-Xylene		0.77208	0.74259	3.8	AVRG	
o-Xylene		1.6317	1.57	3.8	AVRG	
Styrene		1.32848	1.305	1.8	AVRG	
Bromoform	#	0.21974	0.22194	1.0	AVRG	#
Isopropylbenzene (Cumene)		3.57124	3.445	3.5	AVRG	
Bromobenzene		1.68393	1.573	6.6	AVRG	
1,1,2,2-Tetrachloroethane	#	0.8774	0.81195	7.5	AVRG	#
1,2,3-Trichloropropane		0.25881	0.24347	5.9	AVRG	
n-Propylbenzene		4.42952	4.233	4.4	AVRG	
2-Chlorotoluene		3.14255	3.012	4.2	AVRG	
4-Chlorotoluene		3.02936	2.872	5.2	AVRG	
1,3,5-Trimethylbenzene		2.98371	2.993	0.3	AVRG	
tert-Butylbenzene		2.60548	2.604	0.1	AVRG	
1,2,4-Trimethylbenzene		3.16039	3.074	2.7	AVRG	
sec-Butylbenzene		3.51265	3.465	1.4	AVRG	
1,3-Dichlorobenzene		1.71	1.644	3.9	AVRG	
1,4-Dichlorobenzene		1.70397	1.655	2.9	AVRG	
4-Isopropyltoluene		2.73815	2.784	1.7	AVRG	
n-Butylbenzene		2.61374	2.597	0.6	AVRG	
1,2-Dichlorobenzene		1.60492	1.49	7.2	AVRG	
1,2-Dibromo-3-chloropropane		0.12813	0.13344	4.1	AVRG	
1,2,4-Trichlorobenzene		0.81831	0.82486	0.8	AVRG	
Hexachlorobutadiene		0.17765	0.16742	5.8	AVRG	
Naphthalene		2.03898	1.961	3.8	AVRG	
1,2,3-Trichlorobenzene		0.68622	0.70796	3.2	AVRG	
MTBE		0.75377	0.78468	4.1	AVRG	
==========						
Dibromofluoromethane(SURR)		0.27937	0.27305	2.3	AVRG	
Toluene d8(SURR)		1.0889	1.064	2.3	AVRG	

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FORM VII

7SSC

VOLATILE ORGANIC SECONDARY SOURCE CALIBRATION DATA

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.PW

Lab Code : PEL Case No. SAS No: SDG No.: 2509451

Instrument ID: VMS03 CalibrationDate: 06/03/08 Time: 1051

CCV ID: SSC609724 Lab File ID: SEC32.D Init. Calib. Date Begin: 06/03/08 End: 06/03/08

GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) NO

Min RRF for SPCC(#) = 0.1 Max %D for CCC(*) = 20 %

COMPOUND	Expected	Found	%D / %Drift	Curve Type
4-Bromofluorobenzene(SURR)	1.08658	1.067	1.8	AVRG
1,2-Dichloroethane-d4(SURR)	0.06521	0.06413	1.7	AVRG

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FORM VII

VOLATILE ORGANIC CONTINUING CALIBRATION DATA

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.PW

Lab Code : PEL Case No. SAS No: SDG No.: 2509451

Instrument ID: VMS03 CalibrationDate: 06/09/08 Time: 1739

CCV ID: CCV611164 Lab File ID: 50CCV34.D Init. Calib. Date Begin: 06/03/08 End: 06/03/08

GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) NO

Min RRF for SPCC(#) = 0.1 Max %D for CCC(*) = 20 %

COMPOUND		Expected	Found	%D / %Drift	Curve Type	
Dichlorodifluoromethane		0.2486	0.22485	9.6	AVRG	
Chloromethane	#	0.44154	0.42211	4.4	AVRG #	
Vinyl chloride	*	50	53.8	7.6	2ORD *	
Bromomethane		0.16206	0.17729	9.4	AVRG	
Chloroethane		50	52.6	5.2	2ORD	
Trichlorofluoromethane		0.38979	0.42328	8.6	AVRG	
1,1-Dichloroethene	*	0.48993	0.55604	13.5	AVRG *	
Acrolein		0.03804	0.04226	11.1	AVRG	
Methyl iodide		0.36987	0.40511	9.5	AVRG	
Carbon disulfide		0.75271	0.68443	9.1	AVRG	
Methylene chloride		50	55.2	10.4	2ORD	
trans-1,2-Dichloroethene		0.49585	0.53644	8.2	AVRG	
Acrylonitrile		0.12622	0.14868	17.8	AVRG	
1,1-Dichloroethane	#	0.59359	0.63157	6.4	AVRG #	
Acetone		100	108	8.0	2ORD	
2,2-Dichloropropane		0.1934	0.19968	3.2	AVRG	
cis-1,2-Dichloroethene		0.33256	0.33761	1.5	AVRG	
Bromochloromethane		0.35719	0.38518	7.8	AVRG	
2-Butanone		100	134	34.0	2ORD	<-
Chloroform	*	0.55289	0.59779	8.1	AVRG *	
1,1,1-Trichloroethane		0.38582	0.4459	15.6	AVRG	
Carbon tetrachloride		0.35148	0.38995	10.9	AVRG	
1,1-Dichloropropene		0.41932	0.43846	4.6	AVRG	
Benzene		1.28705	1.201	6.7	AVRG	
1,2-Dichloroethane		0.43561	0.51983	19.3	AVRG	
Trichloroethene		0.30356	0.29226	3.7	AVRG	
Vinyl acetate		0.73307	0.81123	10.7	AVRG	
1,2-Dichloropropane	*	0.36322	0.36603	0.8	AVRG *	
Dibromomethane		0.18806	0.2011	6.9	AVRG	
Bromodichloromethane		0.40761	0.43923	7.8	AVRG	
cis-1,3-Dichloropropene		0.42166	0.44421	5.3	AVRG	
4-Methyl-2-pentanone		0.97417	1.073	10.1	AVRG	
Toluene	*	0.78029	0.76464	2.0	AVRG *	
trans-1,3-Dichloropropene		0.34548	0.40607	17.5	AVRG	
1,1,2-Trichloroethane		0.26361	0.27168	3.1	AVRG	
Tetrachloroethene		0.30662	0.28345	7.6	AVRG	

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FORM VII

VOLATILE ORGANIC CONTINUING CALIBRATION DATA

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.PW

Lab Code : PEL Case No. SAS No: SDG No.: 2509451

Instrument ID: VMS03 CalibrationDate: 06/09/08 Time: 1739

CCV ID: CCV611164 Lab File ID: 50CCV34.D Init. Calib. Date Begin: 06/03/08 End: 06/03/08

GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) NO

Min RRF for SPCC(#) = 0.1 Max %D for CCC(*) = 20 %

COMPOUND		Expected	Found	%D / %Drift	Curve Type	
1,3-Dichloropropane		0.65253	0.62814	3.7	AVRG	
2-Hexanone		0.3131	0.36773	17.4	AVRG	
Dibromochloromethane		0.37814	0.39659	4.9	AVRG	
1,2-Dibromoethane(EDB)		0.35257	0.35743	1.4	AVRG	
Chlorobenzene	#	1.17739	1.071	9.0	AVRG #	
1,1,1,2-Tetrachloroethane		0.35976	0.37093	3.1	AVRG	
Ethylbenzene	*	0.63229	0.57296	9.4	AVRG *	
p,m-Xylene		0.77208	0.70883	8.2	AVRG	
o-Xylene		1.6317	1.604	1.7	AVRG	
Styrene		1.32848	1.27	4.4	AVRG	
Bromoform	#	0.21974	0.24514	11.6	AVRG #	
Isopropylbenzene (Cumene)		3.57124	3.295	7.7	AVRG	
Bromobenzene		1.68393	1.458	13.4	AVRG	
1,1,2,2-Tetrachloroethane	#	0.8774	0.79378	9.5	AVRG #	
1,2,3-Trichloropropane		0.25881	0.27566	6.5	AVRG	
n-Propylbenzene		4.42952	3.971	10.4	AVRG	
2-Chlorotoluene		3.14255	2.986	5.0	AVRG	
4-Chlorotoluene		3.02936	2.764	8.8	AVRG	
1,3,5-Trimethylbenzene		2.98371	2.877	3.6	AVRG	
tert-Butylbenzene		2.60548	2.483	4.7	AVRG	
1,2,4-Trimethylbenzene		3.16039	3.048	3.6	AVRG	
sec-Butylbenzene		3.51265	3.289	6.4	AVRG	
1,3-Dichlorobenzene		1.71	1.59	7.0	AVRG	
1,4-Dichlorobenzene		1.70397	1.616	5.2	AVRG	
4-Isopropyltoluene		2.73815	2.679	2.2	AVRG	
n-Butylbenzene		2.61374	2.473	5.4	AVRG	
1,2-Dichlorobenzene		1.60492	1.55	3.4	AVRG	
1,2-Dibromo-3-chloropropane		0.12813	0.15541	21.3	AVRG	<-
1,2,4-Trichlorobenzene		0.81831	0.89272	9.1	AVRG	
Hexachlorobutadiene		0.17765	0.1864	4.9	AVRG	
Naphthalene		2.03898	2.09	2.5	AVRG	
1,2,3-Trichlorobenzene		0.68622	0.77862	13.5	AVRG	
MTBE		0.75377	0.82568	9.5	AVRG	
==========						
Dibromofluoromethane(SURR)		0.27937	0.30374	8.7	AVRG	
Toluene d8(SURR)		1.0889	1.107	1.7	AVRG	

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FORM VII

VOLATILE ORGANIC CONTINUING CALIBRATION DATA

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.PW

Lab Code : PEL Case No. SAS No: SDG No.: 2509451

Instrument ID: VMS03 CalibrationDate: 06/09/08 Time: 1739

CCV ID: CCV611164 Lab File ID: 50CCV34.D Init. Calib. Date Begin: 06/03/08 End: 06/03/08

GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) NO

Min RRF for SPCC(#) = 0.1 Max %D for CCC(*) = 20 %

COMPOUND	Expected	Found	%D / %Drift	Curve Type
4-Bromofluorobenzene(SURR)	1.08658	1.058	2.6	AVRG
1,2-Dichloroethane-d4(SURR)	0.06521	0.06732	3.2	AVRG

Average Used: 8

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FORM VII

PEL a division of Spectrum Analytical, Inc.

featuring HANIBAL TECHNOLOGY

Customer Name:	CH2M Hill
Date and Time Received:	6/13/2008 8:20:00 AM
Date Reported:	7/12/2008
Laboratory Submission Number/SDG:	2509538 R1
Project:	SLOP R1 / 364298.01.SL.R1.FW

Samples: The submission consisted of 3 samples with sample identification shown in the attached data tables.

Tests: The samples were analyzed for the methods listed on the attached table of contents.

Results: See the attached data tables for results.

Distribution of Report to:

CH2M Hill
Attn: Dave Lee
Phone: W 314-421-0900

Respectfully Submitted,

Brian Spann
Laboratory Director
PEL a division of Spectrum Analytical, Inc.
featuring Hanibal Technology

Note: Submitted material will be retained for 30 days unless otherwise requested by client or consumed in analysis. PEL letters and reports are f the exclusive use of the client to whom they are addressed. Our Letters and reports apply to the sample tested and are not necessarily indicative c the qualities of apparently identical or similar materials

8405 Benjamin Road, Suite A• Tampa, Florida 33634
813-888-9507• FAX: 800-480-6435
Website: www.pelab.com

PEL a division of Spectrum Analytical, Inc.
featuring HANIBAL TECHNOLOGY

Report Revision LOG

SDG: 2509538

Revision	Reason
R1	Report revised to report a long list of VOCs as requested by client.

Organics 2
METHOD 8260 GC/ MS VOLATILE ORGANICS 5
Sample Data 10
QC Summary 20
Standards Data 35

Chain of Custody Documentation 48

Addendum 54

EXECUTIVE SUMMARY - Detection Highlights

2509538

SAMPLE ID: MW-117-W-00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Carbon disulfide	0.57 J	1	UG/L	SW8260B

SAMPLE ID: TB-061208

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Methylene chloride	2.8 B	1	UG/L	SW8260B

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Organics

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Organic Data Qualifiers

U Indicates the analyte was analyzed for but not detected. The number adjacent to the "U" qualifier indicates the reporting limit for that analyte. The reporting limit can vary from sample to sample depending on dilution factors or the percent moisture adjustment when indicated.

J Indicates estimated value. It is used when the data indicates the presence of an analyte above the method detection limit (MDL) yet lower than the reporting limit.

B Indicates the analyte was found in the associated blank as well as in the sample. The notation indicates possible contamination of the sample.

E Indicates the value reported is above the highest calibration standard for that analyte. The sample should be analyzed at an appropriate dilution. "E" qualified values are estimations and the diluted result may be reported on another Form 1.

D Indicates the analyte has been identified in a dilution reanalysis. "D" qualifiers are used for samples that have been analyzed at a lesser dilution than required for accurate quantitation.

C The "C" qualifier indicates the presence of this analyte has been confirmed by GC/MS analysis.

P This qualifier is used for pesticide / Aroclor target analytes where there is greater than 25% difference for the detected concentration between the two GC columns.

N This qualifier indicates presumptive evidence of an analyte. This qualifier is only used for tentatively identified compounds (TIC), where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the "N" qualifier is not used.

A This qualifier indicates that a TIC is a suspected aldol-condensation product.

X Data flagged as rejected by analyst utilizing analytical judgement.

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Organic Sample ID Qualifiers

The qualifiers that may be appended to the lab sample ID and/or the client sample ID for organic analysis are defined below:

DL Diluted reanalysis. Indicates that the results of the original analysis of the sample contained compounds that exceeded the calibration range. The sample was diluted and reanalyzed. May be followed by a digit to indicate multiple dilutions of the sample. The results of more than one diluted reanalysis may be reported.

R Reanalysis. The extract was reanalyzed without re-extraction. The "R" is not used if the sample was also re-extracted. May be followed by a digit to indicate multiple reanalysis of the sample at the same dilution.

RE Re-extracted. The extract was reanalyzed with re-extraction. May be followed by a digit to indicate multiple re-extraction of the same sample at the same dilution.

MS Matrix spike (may be followed by a digit to indicate multiple matrix within a sample set).

SD Matrix spike duplicate (may be followed by a digit to indicate multiple matrix spike duplicate within a sample set).

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GC/MS VOLATILE ORGANICS

METHOD 8260

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CASE NARRATIVE
GC/MS VOLATILE ORGANICS

PEL Lab Reference No./SDG: 2509538

Client: CH2M Hill

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this package.

II. HOLDING TIMES

A. Sample Preparation: All holding times were met.

B. Sample Analysis: All holding times were met.

III. METHODS

EPA 8260B/SW846

IV. PREPARATION

Water samples were prepared by SW846/5030 for EPA8260B volatiles analysis. All aspects of sample preparation proceeded without exception.

V. ANALYSIS

A. Calibration:

All acceptance criteria were met. PEL does not analyze a low calibration standard at the requested RL for all analytes. The low calibration standard is 2 UG/L for Methylene chloride.

B. Blanks:

All acceptance criteria were met. Please note that Blank 061708BLKA22 was analyzed with the water samples on 06/17/08. The following analyte was detected below RL: Methylene chloride at 0.53 UG/L.

No further action was necessary. Samples coded accordingly.

C. Surrogates:

All acceptance criteria were met with the exception of:

Sample TB-061208 was recovered below criteria for the following surrogate(s): Dibromofluoromethane at 84.4 % with criteria of (86-118).

Since there was only one vial, the sample was compromised and could not be reanalyzed. Samples coded accordingly.

PEL Lab Reference No./SDG: 2509538

Client: CH2M Hill

D. Spikes:

1. Laboratory Control Spikes (LCS)

All acceptance criteria were met with the exception of:

LCS 061708LCSA22 was analyzed with the water samples on 06/17/08. The following analyte(s) were recovered below criteria: 1,2,3-Trichloropropane at 74 % with criteria of (84-119), 2-Butanone at 69.7 % with criteria of (76-124), Acrolein at 0 % with criteria of (61-125). The following analyte(s) were recovered above criteria: 1,2,3-Trichlorobenzene at 144 % with criteria of (73-141), Hexachlorobutadiene at 154 % with criteria of (68-149), n-Butylbenzene at 128 % with criteria of (83-125). The following analyte(s) had marginal exceedance limit failures: 1,2,3-Trichloropropane at 74 % with criteria of (78.2-124.8), Acrolein at 0 % with criteria of (50.3-135.7). No further action was taken, since the analyte list changed to a longer list and these analytes were not previously an issue.

LCS 061708LCSA22D was analyzed with the water samples on 06/17/08. The following analyte(s) were recovered below criteria: 2-Butanone at 67 % with criteria of (76-124), Acrolein at 15.8 % with criteria of (61-125). The following analyte(s) exceeded RPD criteria: 1,2,3-Trichloropropane at 25.4 % with criteria of (20), Acrolein at 200 % with criteria of (20), Hexachlorobutadiene at 20.5 % with criteria of (20), Naphthalene at 20.9 % with criteria of (20), o-Xylene at 22.3 % with criteria of (20). No further action was required. The following analyte(s) had marginal exceedance limit failures: 2-Butanone at 67 % with criteria of (68-132), Acrolein at 15.8 % with criteria of (50.3-135.7). No further action was taken, since the analyte list changed to a longer list and these analytes were not previously an issue.

Samples coded accordingly.

2. Matrix Spike/Matrix Spike Duplicate Samples (MS/SD)

No spikes requested by client.

E. Internal Standards:

All acceptance criteria were met.

F. Samples:

Sample analysis proceeded normally. Client specified reporting limits were used.

Please note that this is a resubmittal due to the analyte list being changed by the project chemist.

Analytes were detected in Trip Blank TB-061208. The following analyte was detected above RL: Methylene chloride at 2.8 UG/L.

CASE NARRATIVE
GC/MS VOLATILE ORGANICS

PEL Lab Reference No./SDG: 2509538

Client: CH2M Hill

I certify that this data package is in compliance with the terms and conditions agreed to by the client and PEL, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as, verified by the following signature.

SIGNED: **DATE: 07/11/2008**

W:\Narratives\Vols\2509\2509538_8260.doc

VOLATILE ORGANIC CROSS REFERENCE TABLE

Lab Name: PEL Laboratories, Inc. Contract: SLOP R1 / 364298.01.SL.R1.FW

Lab Code : PEL Case No. SAS No: SDG No.: 2509538

Method: 8260

EPA Sample No	Lab Sample ID
MW-117-W-00	250953801
EB-061208	250953802
TB-061208	250953803

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Sample Data

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1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

MW-117-W-00

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP R1 / 364298.01.SL.R1.F

Lab Code : PEL Case No. SAS No: SDG No.: 2509538

Matrix: WATER Lab Sample ID: 250953801 Lab File ID: 53801.D

Sample wt/vol: 5 Units: ML Date Received: 06/13/08

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/17/08 Time: 1250

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
75-71-8	Dichlorodifluoromethane	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
75-35-4	1,1-Dichloroethene	1	U
107-02-8	Acrolein	10	U
74-88-4	Methyl iodide	2	U
75-15-0	Carbon disulfide	0.57	J
75-09-2	Methylene chloride	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
107-13-1	Acrylonitrile	4	U
75-34-3	1,1-Dichloroethane	1	U
67-64-1	Acetone	10	U
594-20-7	2,2-Dichloropropane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
74-97-5	Bromochloromethane	1	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
563-58-6	1,1-Dichloropropene	1	U
71-43-2	Benzene	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
108-05-4	Vinyl acetate	2	U

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Form I

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

MW-117-W-00

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP R1 / 364298.01.SL.R1.F

Lab Code : PEL Case No. SAS No: SDG No.: 2509538

Matrix: WATER Lab Sample ID: 250953801 Lab File ID: 53801.D

Sample wt/vol: 5 Units: ML Date Received: 06/13/08

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/17/08 Time: 1250

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
78-87-5	1,2-Dichloropropane	1	U
74-95-3	Dibromomethane	1	U
75-27-4	Bromodichloromethane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1	U
142-28-9	1,3-Dichloropropane	1	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane(EDB)	1	U
108-90-7	Chlorobenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
100-41-4	Ethylbenzene	1	U
511-39-00	p,m-Xylene	2	U
95-47-6	o-Xylene	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
98-82-8	Isopropylbenzene (Cumene)	1	U
108-86-1	Bromobenzene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
96-18-4	1,2,3-Trichloropropane	1	U
103-65-1	n-Propylbenzene	1	U
95-49-8	2-Chlorotoluene	1	U
106-43-4	4-Chlorotoluene	1	U

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Form I

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

MW-117-W-00

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP R1 / 364298.01.SL.R1.F

Lab Code : PEL Case No. SAS No: SDG No.: 2509538

Matrix: WATER Lab Sample ID: 250953801 Lab File ID: 53801.D

Sample wt/vol: 5 Units: ML Date Received: 06/13/08

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/17/08 Time: 1250

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
108-67-8	1,3,5-Trimethylbenzene	1	U
98-06-6	tert-Butylbenzene	1	U
95-63-6	1,2,4-Trimethylbenzene	1	U
135-98-8	sec-Butylbenzene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
99-87-6	4-Isopropyltoluene	1	U
104-51-8	n-Butylbenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	2	U
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	1	U
91-20-3	Naphthalene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U
1634-04-4	MTBE	1	U

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EB-061208

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP R1 / 364298.01.SL.R1.F

Lab Code : PEL Case No. SAS No: SDG No.: 2509538

Matrix: WATER Lab Sample ID: 250953802 Lab File ID: 53802.D

Sample wt/vol: 5 Units: ML Date Received: 06/13/08

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/17/08 Time: 1316

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
75-71-8	Dichlorodifluoromethane	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
75-35-4	1,1-Dichloroethene	1	U
107-02-8	Acrolein	10	U
74-88-4	Methyl iodide	2	U
75-15-0	Carbon disulfide	1	U
75-09-2	Methylene chloride	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
107-13-1	Acrylonitrile	4	U
75-34-3	1,1-Dichloroethane	1	U
67-64-1	Acetone	10	U
594-20-7	2,2-Dichloropropane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
74-97-5	Bromochloromethane	1	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
563-58-6	1,1-Dichloropropene	1	U
71-43-2	Benzene	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
108-05-4	Vinyl acetate	2	U

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Form I

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EB-061208

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP R1 / 364298.01.SL.R1.F

Lab Code : PEL Case No. SAS No: SDG No.: 2509538

Matrix: WATER Lab Sample ID: 250953802 Lab File ID: 53802.D

Sample wt/vol: 5 Units: ML Date Received: 06/13/08

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/17/08 Time: 1316

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
78-87-5	1,2-Dichloropropane	1	U
74-95-3	Dibromomethane	1	U
75-27-4	Bromodichloromethane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1	U
142-28-9	1,3-Dichloropropane	1	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane(EDB)	1	U
108-90-7	Chlorobenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
100-41-4	Ethylbenzene	1	U
511-39-00	p,m-Xylene	2	U
95-47-6	o-Xylene	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
98-82-8	Isopropylbenzene (Cumene)	1	U
108-86-1	Bromobenzene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
96-18-4	1,2,3-Trichloropropane	1	U
103-65-1	n-Propylbenzene	1	U
95-49-8	2-Chlorotoluene	1	U
106-43-4	4-Chlorotoluene	1	U

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Form I

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EB-061208

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP R1 / 364298.01.SL.R1.F

Lab Code : PEL Case No. SAS No: SDG No.: 2509538

Matrix: WATER Lab Sample ID: 250953802 Lab File ID: 53802.D

Sample wt/vol: 5 Units: ML Date Received: 06/13/08

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/17/08 Time: 1316

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
108-67-8	1,3,5-Trimethylbenzene	1	U
98-06-6	tert-Butylbenzene	1	U
95-63-6	1,2,4-Trimethylbenzene	1	U
135-98-8	sec-Butylbenzene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
99-87-6	4-Isopropyltoluene	1	U
104-51-8	n-Butylbenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	2	U
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	1	U
91-20-3	Naphthalene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U
1634-04-4	MTBE	1	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

TB-061208

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP R1 / 364298.01.SL.R1.F

Lab Code : PEL Case No. SAS No: SDG No.: 2509538

Matrix: WATER Lab Sample ID: 250953803 Lab File ID: 53803.D

Sample wt/vol: 5 Units: ML Date Received: 06/13/08

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/17/08 Time: 1010

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
75-71-8	Dichlorodifluoromethane	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
75-35-4	1,1-Dichloroethene	1	U
107-02-8	Acrolein	10	U
74-88-4	Methyl iodide	2	U
75-15-0	Carbon disulfide	1	U
75-09-2	Methylene chloride	2.8	B
156-60-5	trans-1,2-Dichloroethene	1	U
107-13-1	Acrylonitrile	4	U
75-34-3	1,1-Dichloroethane	1	U
67-64-1	Acetone	10	U
594-20-7	2,2-Dichloropropane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
74-97-5	Bromochloromethane	1	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
563-58-6	1,1-Dichloropropene	1	U
71-43-2	Benzene	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
108-05-4	Vinyl acetate	2	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

TB-061208

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP R1 / 364298.01.SL.R1.F

Lab Code : PEL Case No. SAS No: SDG No.: 2509538

Matrix: WATER Lab Sample ID: 250953803 Lab File ID: 53803.D

Sample wt/vol: 5 Units: ML Date Received: 06/13/08

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/17/08 Time: 1010

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
78-87-5	1,2-Dichloropropane	1	U
74-95-3	Dibromomethane	1	U
75-27-4	Bromodichloromethane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1	U
142-28-9	1,3-Dichloropropane	1	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane(EDB)	1	U
108-90-7	Chlorobenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
100-41-4	Ethylbenzene	1	U
511-39-00	p,m-Xylene	2	U
95-47-6	o-Xylene	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
98-82-8	Isopropylbenzene (Cumene)	1	U
108-86-1	Bromobenzene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
96-18-4	1,2,3-Trichloropropane	1	U
103-65-1	n-Propylbenzene	1	U
95-49-8	2-Chlorotoluene	1	U
106-43-4	4-Chlorotoluene	1	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

TB-061208

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP R1 / 364298.01.SL.R1.F

Lab Code : PEL Case No. SAS No: SDG No.: 2509538

Matrix: WATER Lab Sample ID: 250953803 Lab File ID: 53803.D

Sample wt/vol: 5 Units: ML Date Received: 06/13/08

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/17/08 Time: 1010

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
108-67-8	1,3,5-Trimethylbenzene	1	U
98-06-6	tert-Butylbenzene	1	U
95-63-6	1,2,4-Trimethylbenzene	1	U
135-98-8	sec-Butylbenzene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
99-87-6	4-Isopropyltoluene	1	U
104-51-8	n-Butylbenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	2	U
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	1	U
91-20-3	Naphthalene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U
1634-04-4	MTBE	1	U

QC Summary

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

061708BLKA22

Lab Name: PEL, Spectrum Analytical Contract: SLOP R1 / 364298.01.SL.R1.FW

Lab Code : PEL Case No. SAS No: SDG No.: 2509538

Matrix: WATER Lab Sample ID: 061708BLKA22 Lab File ID: BLK22.D

Sample wt/vol: 5 Units: ML Date Received: 06/17/08

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/17/08 Time: 0945

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
75-71-8	Dichlorodifluoromethane	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
75-35-4	1,1-Dichloroethene	1	U
107-02-8	Acrolein	10	U
74-88-4	Methyl iodide	2	U
75-15-0	Carbon disulfide	1	U
75-09-2	Methylene chloride	0.53	J
156-60-5	trans-1,2-Dichloroethene	1	U
107-13-1	Acrylonitrile	4	U
75-34-3	1,1-Dichloroethane	1	U
67-64-1	Acetone	10	U
594-20-7	2,2-Dichloropropane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
74-97-5	Bromochloromethane	1	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
563-58-6	1,1-Dichloropropene	1	U
71-43-2	Benzene	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
108-05-4	Vinyl acetate	2	U

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Form I

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

061708BLKA22

Lab Name: PEL, Spectrum Analytical Contract: SLOP R1 / 364298.01.SL.R1.FW

Lab Code : PEL Case No. SAS No: SDG No.: 2509538

Matrix: WATER Lab Sample ID: 061708BLKA22 Lab File ID: BLK22.D

Sample wt/vol: 5 Units: ML Date Received: 06/17/08

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/17/08 Time: 0945

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
78-87-5	1,2-Dichloropropane	1	U
74-95-3	Dibromomethane	1	U
75-27-4	Bromodichloromethane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1	U
142-28-9	1,3-Dichloropropane	1	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane(EDB)	1	U
108-90-7	Chlorobenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
100-41-4	Ethylbenzene	1	U
511-39-00	p,m-Xylene	2	U
95-47-6	o-Xylene	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
98-82-8	Isopropylbenzene (Cumene)	1	U
108-86-1	Bromobenzene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
96-18-4	1,2,3-Trichloropropane	1	U
103-65-1	n-Propylbenzene	1	U
95-49-8	2-Chlorotoluene	1	U
106-43-4	4-Chlorotoluene	1	U

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Form I

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

061708BLKA22

Lab Name: PEL, Spectrum Analytical Contract: SLOP R1 / 364298.01.SL.R1.FW

Lab Code : PEL Case No. SAS No: SDG No.: 2509538

Matrix: WATER Lab Sample ID: 061708BLKA22 Lab File ID: BLK22.D

Sample wt/vol: 5 Units: ML Date Received: 06/17/08

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/17/08 Time: 0945

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
108-67-8	1,3,5-Trimethylbenzene	1	U
98-06-6	tert-Butylbenzene	1	U
95-63-6	1,2,4-Trimethylbenzene	1	U
135-98-8	sec-Butylbenzene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
99-87-6	4-Isopropyltoluene	1	U
104-51-8	n-Butylbenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	2	U
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	1	U
91-20-3	Naphthalene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U
1634-04-4	MTBE	1	U

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VOLATILE ORGANIC METHOD BLANK SUMMARY

EPA Sample No.

061708BLKA22

Lab Name: PEL, Spectrum Analytical Contract: SLOP R1 / 364298.01.SL.R1.FW

Lab Code : PEL Case No. SAS No: SDG No.: 2509538

Lab File ID: BLK22.D Lab Sample ID: 061708BLKA22

Instrument ID: VMS02 Date Extracted:

Matrix: WATER Date Analyzed: 06/17/08

Level:(low/med) LOW Time Analyzed: 0945

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	061708LCSA22	061708LCSA22	LCS22.D	06/17/08	0828
2	061708LCSA22D	061708LCSA22D	LCS22D.D	06/17/08	0854
3	TB-061208	250953803	53803.D	06/17/08	1010
4	MW-117-W-00	250953801	53801.D	06/17/08	1250
5	EB-061208	250953802	53802.D	06/17/08	1316

COMMENTS:

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Form IV

2A

WATER VOLATILE ORGANIC SURROGATE RECOVERY

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP R1 / 364298.01.SL.R1.F

Lab Code : PEL Case No. _____ SAS No: _____ SDG NO.: 2509538

Column(1): DB-624 ID: 0.18 (mm)

EPA Sample NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	TOT OUT
061708BLKA22	90.2	96.6	90.6	99.4			0
061708LCSA22	97.6	98.8	100.0	101.0			0
061708LCSA22D	95.6	99.6	102.0	101.0			0
EB-061208	92.8	97.6	102.0	105.0			0
MW-117-W-00	98.6	99.6	104.0	107.0			0
TB-061208	84.4 *	88.6	98.4	95.2			1

Control Limits

S1	=	Dibromofluoromethane	86	-	118
S2	=	Toluene d8	88	-	110
S3	=	4-Bromofluorobenzene	86	-	115
S4	=	1,2-Dichloroethane-d4	80	-	120

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

Control limit source: (lab/method) METHOD

Form II

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VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP R1 / 364298.01.SL.R1.FW

Lab Code : PEL Case No. SAS No: SDG No.: 2509538

Lab File ID: BFB21.D BFB Injection Date: 06/14/08

Instrument ID: VMS02 BFB Injection Time: 1637

GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) NO

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0% of mass 95	29.3	
75	30.0 - 60.0% of mass 95	56.1	
95	Base Peak, 100% relative abundance	100	
96	5.0 - 9.0% of mass 95	6.2	
173	Less than 2.0% of mass 174	0.2	(0.2)1
174	50.0 - 100.0% of mass 95	67.1	
175	5.0 - 9.0% of mass 174	4.9	(7.4)1
176	Greater than 95.0%, but less than 101.0% of mass 174	64.5	(96.1)1
177	5.0 - 9.0% of mass 176	4.2	(6.5)2

1-Value is % of mass 174

2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	STD612667	1ppb	CAL1R.D	06/14/08	1733
2	STD612677	5ppb	CAL3.D	06/14/08	1826
3	STD612666	10ppb	CAL4.D	06/14/08	1852
4	STD612675	2ppb	CAL2R.D	06/14/08	1917
5	STD612668	20ppb	CAL5.D	06/14/08	1943
6	STD612676	50ppb	CAL6.D	06/14/08	2009
7	STD612678	60ppb	CAL7.D	06/14/08	2034
8	STD612679	80ppb	CAL8.D	06/14/08	2100
9	SSC612680	sec21	SEC21.D	06/14/08	2151

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP R1 / 364298.01.SL.R1.FW

Lab Code : PEL Case No. SAS No: SDG No.: 2509538

Lab File ID: BFB21.D BFB Injection Date: 06/17/08

Instrument ID: VMS02 BFB Injection Time: 0708

GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) NO

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0% of mass 95	30.1	
75	30.0 - 60.0% of mass 95	59.8	
95	Base Peak, 100% relative abundance	100	
96	5.0 - 9.0% of mass 95	6.9	
173	Less than 2.0% of mass 174	0	(0)1
174	50.0 - 100.0% of mass 95	67.3	
175	5.0 - 9.0% of mass 174	5.2	(7.7)1
176	Greater than 95.0%, but less than 101.0% of mass 174	64.2	(95.5)1
177	5.0 - 9.0% of mass 176	3.2	(5)2

1-Value is % of mass 174

2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CCV612841	061708CCV21	CCV21.D	06/17/08	0738
2	061708LCSA22	061708LCSA22	LCS22.D	06/17/08	0828
3	061708LCSA22D	061708LCSA22	LCS22D.D	06/17/08	0854
4	061708BLKA22	061708BLKA22	BLK22.D	06/17/08	0945
5	TB-061208	250953803	53803.D	06/17/08	1010
6	MW-117-W-00	250953801	53801.D	06/17/08	1250
7	EB-061208	250953802	53802.D	06/17/08	1316

8A

VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP R1 / 364298.01.SL.R1.FW

Lab Code : PEL Case No. SAS No: SDG No.: 2509538

Lab File ID (Standard): CAL6.D Date Analyzed: 6/14/2008

Instrument ID: VMS02 Time Analyzed: 20:09

GC Column: DB-624 ID: 0.18 (mm)

Matrix: (soil/water) W Heated Purge: (Y/N) No

		IS1 AREA	#	RT	IS2 AREA	#	RT	IS3 AREA	#	RT
	MID CAL STD	821368		10.94	370885		13.78	1394542		7.22
	UPPER LIMIT	1642736		11.44	741770		14.28	2789084		7.72
	LOWER LIMIT	410684		10.44	185442.5		13.28	697271		6.72
	EPA SAMPLE NO.									
1	061708LCSA22	784317		10.94	340092		13.78	1342932		7.22
2	061708LCSA22D	796101		10.94	346012		13.78	1365955		7.22
3	061708BLKA22	794799		10.94	322267		13.78	1344240		7.22
4	TB-061208	792403		10.94	299706		13.78	1364163		7.22
5	MW-117-W-00	767101		10.94	306795		13.77	1272151		7.22
6	EB-061208	793378		10.94	310654		13.77	1307742		7.22

IS1 = Chlorobenzene d5

IS2 = 1,4-Dichlorobenzene-d4

IS3 = Fluorobenzene

UPPER LIMIT = +100% of internal standard area.
LOWER LIMIT = -50% of internal standard area

Column used to flag internal standard area values with an asterisk

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FORM VIII

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VOLATILE ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.

061708LCSA22

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP R1 / 364298.01.SL.R1.F

Lab Code : PEL Case No. SAS No: SDG No.: 2509538

COMPOUND	SPIKE ADDED UG/L	LCS CONCENTRATION UG/L	LCS % REC #	LCS % RPD	QC LIMITS RPD	QC LIMITS REC.
Dichlorodifluoromethane	20	15.6	78.0		20.0	62 - 133
Chloromethane	20	18.5	92.5		20.0	63 - 124
Vinyl chloride	20	19.4	97.0		20.0	60 - 124
Bromomethane	20	21	105.0		20.0	58 - 144
Chloroethane	20	18.2	91.0		20.0	72 - 135
Trichlorofluoromethane	20	20	100.0		21.0	74 - 135
1,1-Dichloroethene	20	20.9	104.0		20.0	81 - 119
Acrolein	60	0	0.0 *		20.0	61 - 125
Methyl iodide	20	20.6	103.0		20.0	56 - 133
Carbon disulfide	20	20.5	102.0		20.0	65 - 121
Methylene chloride	20	19.2	96.0		20.0	75 - 111
trans-1,2-Dichloroethene	20	21.3	106.0		20.0	79 - 121
Acrylonitrile	60	45.9	76.5		20.0	62 - 132
1,1-Dichloroethane	20	20.9	104.0		20.0	76 - 118
Acetone	60	36.2	60.3		20.0	45 - 156
2,2-Dichloropropane	20	22.5	112.0		20.0	52 - 147
cis-1,2-Dichloroethene	20	21.3	106.0		20.0	75 - 123
Bromochloromethane	20	19.6	98.0		20.0	70 - 116
2-Butanone	60	41.8	69.7 *		20.0	76 - 124
Chloroform	20	19.8	99.0		20.0	80 - 115
1,1,1-Trichloroethane	20	21	105.0		20.0	79 - 123
Carbon tetrachloride	20	20.2	101.0		20.0	67 - 138
1,1-Dichloropropene	20	20.6	103.0		20.0	80 - 119
Benzene	20	20.9	104.0		20.0	71 - 120
1,2-Dichloroethane	20	19	95.0		20.0	83 - 114
Trichloroethene	20	21	105.0		20.0	76 - 123
Vinyl acetate	20	18.8	94.0		20.0	49 - 136
1,2-Dichloropropane	20	20.2	101.0		20.0	74 - 118
Dibromomethane	20	19.7	98.5		20.0	75 - 119
Bromodichloromethane	20	19.5	97.5		20.0	78 - 117
cis-1,3-Dichloropropene	20	19.1	95.5		20.0	63 - 129
4-Methyl-2-pentanone	60	49.5	82.5		20.0	61 - 134

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS:

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Form III

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VOLATILE ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.

061708LCSA22

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP R1 / 364298.01.SL.R1.F

Lab Code : PEL Case No. SAS No: SDG No.: 2509538

COMPOUND	SPIKE ADDED UG/L	LCS CONCENTRATION UG/L	LCS % REC #	LCS % RPD	QC LIMITS RPD	QC LIMITS REC.
Toluene	20	20.3	102.0		20.0	75 - 119
trans-1,3-Dichloropropene	20	18.6	93.0		20.0	68 - 127
1,1,2-Trichloroethane	20	20	100.0		20.0	80 - 117
Tetrachloroethene	20	20.6	103.0		20.0	70 - 130
1,3-Dichloropropane	20	18	90.0		20.0	83 - 112
2-Hexanone	60	52.8	88.0		20.0	75 - 132
Dibromochloromethane	20	18.2	91.0		20.0	78 - 123
1,2-Dibromoethane(EDB)	20	19.4	97.0		20.0	84 - 121
Chlorobenzene	20	21.5	108.0		20.0	70 - 130
1,1,1,2-Tetrachloroethane	20	21	105.0		20.0	75 - 133
Ethylbenzene	20	21	105.0		20.0	70 - 130
p,m-Xylene	40	44.3	111.0		20.0	70 - 130
o-Xylene	20	17.5	87.5		20.0	70 - 130
Styrene	20	22.4	112.0		20.0	70 - 130
Bromoform	20	16.4	82.0		20.0	71 - 128
Isopropylbenzene (Cumene)	20	21.8	109.0		20.0	83 - 123
Bromobenzene	20	22.3	112.0		20.0	74 - 120
1,1,2,2-Tetrachloroethane	20	18.6	93.0		20.0	84 - 113
1,2,3-Trichloropropane	20	14.8	74.0 *		20.0	84 - 119
n-Propylbenzene	20	22.2	111.0		20.0	82 - 121
2-Chlorotoluene	20	22.2	111.0		20.0	70 - 130
4-Chlorotoluene	20	22.9	114.0		20.0	83 - 123
1,3,5-Trimethylbenzene	20	22.5	112.0		20.0	84 - 124
tert-Butylbenzene	20	23.3	116.0		20.0	82 - 125
1,2,4-Trimethylbenzene	20	23.1	116.0		20.0	82 - 124
sec-Butylbenzene	20	22.2	111.0		20.0	83 - 122
1,3-Dichlorobenzene	20	23.1	116.0		20.0	84 - 118
1,4-Dichlorobenzene	20	22.1	110.0		20.0	70 - 130
4-Isopropyltoluene	20	25.2	126.0		20.0	83 - 126
n-Butylbenzene	20	25.6	128.0 *		20.0	83 - 125
1,2-Dichlorobenzene	20	23.3	116.0		20.0	70 - 130
1,2-Dibromo-3-chloropropane	20	20.1	100.0		20.0	63 - 130

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS:

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Form III

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VOLATILE ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.

061708LCSA22

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP R1 / 364298.01.SL.R1.F

Lab Code : PEL Case No. SAS No: SDG No.: 2509538

COMPOUND	SPIKE ADDED UG/L	LCS CONCENTRATION UG/L	LCS % REC #	LCS % RPD	QC LIMITS RPD	QC LIMITS REC.
1,2,4-Trichlorobenzene	20	21.9	110.0		20.0	83 - 123
Hexachlorobutadiene	20	30.7	154.0 *		20.0	68 - 149
Naphthalene	20	25.9	130.0		20.0	80 - 131
1,2,3-Trichlorobenzene	20	28.9	144.0 *		20.0	73 - 141
MTBE	20	18.9	94.5		20.0	76 - 123

Spike Recovery: 6 out of 69 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS:

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Form III

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VOLATILE ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.

061708LCSA22D

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP R1 / 364298.01.SL.R1.F

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2509538

COMPOUND	SPIKE ADDED UG/L	LCS CONCENTRATION UG/L	LCS % REC #	LCS % RPD	QC LIMITS RPD	QC LIMITS REC.
Dichlorodifluoromethane	20	15.2	76.0	2.6	20.0	62 - 133
Chloromethane	20	22.5	112.0	19.5	20.0	63 - 124
Vinyl chloride	20	17.8	89.0	8.6	20.0	60 - 124
Bromomethane	20	19.2	96.0	9.0	20.0	58 - 144
Chloroethane	20	21.7	108.0	17.5	20.0	72 - 135
Trichlorofluoromethane	20	19	95.0	5.1	21.0	74 - 135
1,1-Dichloroethene	20	20.1	100.0	3.9	20.0	81 - 119
Acrolein	60	9.5	15.8 *	200.0 *	20.0	61 - 125
Methyl iodide	20	20.8	104.0	1.0	20.0	56 - 133
Carbon disulfide	20	20.1	100.0	2.0	20.0	65 - 121
Methylene chloride	20	19.6	98.0	2.1	20.0	75 - 111
trans-1,2-Dichloroethene	20	20.1	100.0	5.8	20.0	79 - 121
Acrylonitrile	60	44	73.3	4.2	20.0	62 - 132
1,1-Dichloroethane	20	20.1	100.0	3.9	20.0	76 - 118
Acetone	60	42	70.0	14.8	20.0	45 - 156
2,2-Dichloropropane	20	21.8	109.0	3.2	20.0	52 - 147
cis-1,2-Dichloroethene	20	20.5	102.0	3.8	20.0	75 - 123
Bromochloromethane	20	20	100.0	2.0	20.0	70 - 116
2-Butanone	60	40.2	67.0 *	3.9	20.0	76 - 124
Chloroform	20	19.5	97.5	1.5	20.0	80 - 115
1,1,1-Trichloroethane	20	20.9	104.0	0.5	20.0	79 - 123
Carbon tetrachloride	20	21	105.0	3.9	20.0	67 - 138
1,1-Dichloropropene	20	21.8	109.0	5.7	20.0	80 - 119
Benzene	20	20.6	103.0	1.4	20.0	71 - 120
1,2-Dichloroethane	20	19.1	95.5	0.5	20.0	83 - 114
Trichloroethene	20	22	110.0	4.7	20.0	76 - 123
Vinyl acetate	20	19.1	95.5	1.6	20.0	49 - 136
1,2-Dichloropropane	20	20.9	104.0	3.4	20.0	74 - 118
Dibromomethane	20	20	100.0	1.5	20.0	75 - 119
Bromodichloromethane	20	20.7	104.0	6.0	20.0	78 - 117
cis-1,3-Dichloropropene	20	19.4	97.0	1.6	20.0	63 - 129
4-Methyl-2-pentanone	60	53.3	88.8	7.4	20.0	61 - 134

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

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Form III

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VOLATILE ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.

061708LCSA22D

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP R1 / 364298.01.SL.R1.F

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2509538

COMPOUND	SPIKE ADDED UG/L	LCS CONCENTRATION UG/L	LCS % REC #	LCS % RPD	QC LIMITS RPD	QC LIMITS REC.
Toluene	20	20.6	103.0	1.5	20.0	75 - 119
trans-1,3-Dichloropropene	20	19.9	99.5	6.8	20.0	68 - 127
1,1,2-Trichloroethane	20	21.2	106.0	5.8	20.0	80 - 117
Tetrachloroethene	20	21	105.0	1.9	20.0	70 - 130
1,3-Dichloropropane	20	19.2	96.0	6.5	20.0	83 - 112
2-Hexanone	60	58.5	97.5	10.2	20.0	75 - 132
Dibromochloromethane	20	17.8	89.0	2.2	20.0	78 - 123
1,2-Dibromoethane(EDB)	20	19.3	96.5	0.5	20.0	84 - 121
Chlorobenzene	20	21.9	110.0	1.8	20.0	70 - 130
1,1,1,2-Tetrachloroethane	20	21.2	106.0	0.9	20.0	75 - 133
Ethylbenzene	20	21.5	108.0	2.4	20.0	70 - 130
p,m-Xylene	40	42.5	106.0	4.1	20.0	70 - 130
o-Xylene	20	21.9	110.0	22.3 *	20.0	70 - 130
Styrene	20	23.5	118.0	4.8	20.0	70 - 130
Bromoform	20	17.9	89.5	8.7	20.0	71 - 128
Isopropylbenzene (Cumene)	20	21.1	106.0	3.3	20.0	83 - 123
Bromobenzene	20	22.2	111.0	0.4	20.0	74 - 120
1,1,2,2-Tetrachloroethane	20	19.9	99.5	6.8	20.0	84 - 113
1,2,3-Trichloropropane	20	19.1	95.5	25.4 *	20.0	84 - 119
n-Propylbenzene	20	21.3	106.0	4.1	20.0	82 - 121
2-Chlorotoluene	20	21.3	106.0	4.1	20.0	70 - 130
4-Chlorotoluene	20	21.8	109.0	4.9	20.0	83 - 123
1,3,5-Trimethylbenzene	20	21.4	107.0	5.0	20.0	84 - 124
tert-Butylbenzene	20	21.9	110.0	6.2	20.0	82 - 125
1,2,4-Trimethylbenzene	20	21.4	107.0	7.6	20.0	82 - 124
sec-Butylbenzene	20	21.2	106.0	4.6	20.0	83 - 122
1,3-Dichlorobenzene	20	22.3	112.0	3.5	20.0	84 - 118
1,4-Dichlorobenzene	20	20.5	102.0	7.5	20.0	70 - 130
4-Isopropyltoluene	20	23	115.0	9.1	20.0	83 - 126
n-Butylbenzene	20	23.5	118.0	8.6	20.0	83 - 125
1,2-Dichlorobenzene	20	21.8	109.0	6.7	20.0	70 - 130
1,2-Dibromo-3-chloropropane	20	18.2	91.0	9.9	20.0	63 - 130

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

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Form III

3

VOLATILE ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.

061708LCSA22D

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP R1 / 364298.01.SL.R1.F

Lab Code : PEL Case No. SAS No: SDG No.: 2509538

COMPOUND	SPIKE ADDED UG/L	LCS CONCENTRATION UG/L	LCS % REC #	LCS % RPD	QC LIMITS RPD	QC LIMITS REC.
1,2,4-Trichlorobenzene	20	21.4	107.0	2.3	20.0	83 - 123
Hexachlorobutadiene	20	25	125.0	20.5 *	20.0	68 - 149
Naphthalene	20	21	105.0	20.9 *	20.0	80 - 131
1,2,3-Trichlorobenzene	20	24.2	121.0	17.7	20.0	73 - 141
MTBE	20	19	95.0	0.5	20.0	76 - 123

Spike Recovery: 2 out of 69 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS:

120708 305

Form III

Standards Data

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VOLATILE ORGANIC INITIAL CALIBRATION DATA

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP R1 / 364298.01.SL.R1.FW

Lab Code : PEL Case No. SAS No: SDG No.: 2509538

Instrument ID: VMS02 Calibration Date Begin: 06/14/08 End: 06/14/08

GC Column: DB-624 ID: 0.18 (mm) Calibration Time Begin: 1733 End: 2100

Min RRF for SPCC(#) = 0.1 Max %RSD for CCC(*) = 30 %

LAB FILE ID: RRF1 =CAL1R.D RRF2 =CAL2R.D
RRF5 =CAL3.D RRF10 =CAL4.D RRF20 =CAL5.D

COMPOUND		RRF1	RRF2	RRF5	RRF10	RRF20	$\overline{RRF}$	%RSD OR R^2
Dichlorodifluoromethane		0.462	0.450	0.470	0.469	0.462		
Chloromethane	#	0.938	0.555	0.560	0.490	0.451		#
Vinyl chloride	*	0.445	0.421	0.490	0.429	0.430		*
Bromomethane		0.250	0.232	0.261	0.250	0.247		
Chloroethane		0.356	0.329	0.271	0.289	0.246		
Trichlorofluoromethane		0.535	0.485	0.546	0.498	0.504		
1,1-Dichloroethene	*	0.511	0.501	0.595	0.532	0.516		*
Acrolein			0.016	0.017	0.018	0.021		
Methyl iodide		0.417	0.417	0.411	0.378	0.384		
Carbon disulfide		0.699	0.619	0.615	0.568	0.588		
Methylene chloride			0.389	0.357	0.320	0.306		
trans-1,2-Dichloroethene		0.507	0.552	0.544	0.512	0.523		
Acrylonitrile		0.048	0.043	0.054	0.063	0.066		
1,1-Dichloroethane	#	0.614	0.690	0.609	0.620	0.606		#
Acetone			0.111	0.102	0.108	0.090		
2,2-Dichloropropane		0.483	0.464	0.479	0.458	0.448		
cis-1,2-Dichloroethene		0.306	0.279	0.298	0.286	0.295		
Bromochloromethane		0.305	0.310	0.364	0.330	0.347		
2-Butanone		0.108	0.096	0.092	0.111	0.092		
Chloroform	*	0.785	0.720	0.661	0.645	0.622		*
1,1,1-Trichloroethane		0.370	0.416	0.452	0.419	0.441		
Carbon tetrachloride		0.332	0.288	0.305	0.322	0.321		
1,1-Dichloropropene		0.486	0.396	0.426	0.426	0.453		
Benzene		1.167	1.172	1.186	1.168	1.132		
1,2-Dichloroethane		0.513	0.590	0.561	0.562	0.530		
Trichloroethene		0.194	0.228	0.205	0.226	0.226		
Vinyl acetate		1.301	1.332	1.232	1.269	1.281		
1,2-Dichloropropane	*	0.321	0.277	0.278	0.320	0.315		*
Dibromomethane		0.128	0.172	0.129	0.164	0.153		
Bromodichloromethane		0.334	0.322	0.345	0.368	0.388		
cis-1,3-Dichloropropene		0.287	0.295	0.329	0.335	0.369		
4-Methyl-2-pentanone			0.198	0.201	0.212	0.209		
Toluene	*	0.649	0.727	0.660	0.626	0.626		*
trans-1,3-Dichloropropene		0.143	0.224	0.245	0.278	0.292		

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FORM VI

6

VOLATILE ORGANIC INITIAL CALIBRATION DATA

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP R1 / 364298.01.SL.R1.FW

Lab Code : PEL Case No. SAS No: SDG No.: 2509538

Instrument ID: VMS02 Calibration Date Begin: 06/14/08 End: 06/14/08

GC Column: DB-624 ID: 0.18 (mm) Calibration Time Begin: 1733 End: 2100

Min RRF for SPCC(#) = 0.1 Max %RSD for CCC(*) = 30 %

LAB FILE ID: RRF1 =CAL1R.D RRF2 =CAL2R.D
RRF5 =CAL3.D RRF10 =CAL4.D RRF20 =CAL5.D

COMPOUND		RRF1	RRF2	RRF5	RRF10	RRF20	$\overline{RRF}$	%RSD OR R^2	
1,1,2-Trichloroethane		0.135	0.138	0.153	0.156	0.163			
Tetrachloroethene		0.242	0.236	0.246	0.270	0.263			
1,3-Dichloropropane		0.729	0.643	0.592	0.616	0.661			
2-Hexanone			0.186	0.180	0.217	0.238			
Dibromochloromethane		0.182	0.197	0.226	0.272	0.282			
1,2-Dibromoethane(EDB)		0.181	0.301	0.260	0.294	0.267			
Chlorobenzene	#	0.871	1.003	0.977	1.002	1.018			#
1,1,1,2-Tetrachloroethane		0.278	0.245	0.268	0.305	0.344			
Ethylbenzene	*	0.435	0.544	0.522	0.512	0.525			*
p,m-Xylene		0.561	0.696	0.596	0.658	0.645			
o-Xylene		1.503	1.615	1.553	1.556	1.640			
Styrene		0.732	0.866	0.849	1.029	1.038			
Bromoform	#	0.040	0.093	0.080	0.106	0.116			#
Isopropylbenzene (Cumene)		3.347	4.190	3.507	3.606	3.567			
Bromobenzene		1.535	1.660	1.875	1.897	1.819			
1,1,2,2-Tetrachloroethane	#	0.618	0.669	0.694	0.751	0.720			#
1,2,3-Trichloropropane		0.238	0.225	0.136	0.177	0.193			
n-Propylbenzene		4.841	5.050	4.404	4.714	4.509			
2-Chlorotoluene		4.841	5.050	4.404	4.714	4.509			
4-Chlorotoluene		3.124	3.924	3.360	3.491	3.341			
1,3,5-Trimethylbenzene		2.946	3.257	2.883	2.875	2.878			
tert-Butylbenzene		1.565	2.431	1.926	2.028	1.915			
1,2,4-Trimethylbenzene		2.674	2.939	2.798	2.850	2.863			
sec-Butylbenzene		2.934	3.964	3.078	3.081	3.055			
1,3-Dichlorobenzene		1.304	1.511	1.386	1.395	1.370			
1,4-Dichlorobenzene		2.281	1.894	1.700	1.601	1.517			
4-Isopropyltoluene		2.137	2.827	2.221	2.346	2.345			
n-Butylbenzene		1.911	2.556	2.203	2.266	2.304			
1,2-Dichlorobenzene		1.078	1.368	1.159	1.194	1.201			
1,2-Dibromo-3-chloropropane			0.028	0.056	0.049	0.076			
1,2,4-Trichlorobenzene		0.257	0.487	0.298	0.432	0.498			
Hexachlorobutadiene		0.097	0.430	0.168	0.257	0.244			
Naphthalene		0.521	0.533	0.323	0.480	0.553			
1,2,3-Trichlorobenzene		0.293	0.584	0.287	0.371	0.350			

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FORM VI

VOLATILE ORGANIC INITIAL CALIBRATION DATA

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP R1 / 364298.01.SL.R1.FW

Lab Code : PEL Case No. SAS No: SDG No.: 2509538

Instrument ID: VMS02 Calibration Date Begin: 06/14/08 End: 06/14/08

GC Column: DB-624 ID: 0.18 (mm) Calibration Time Begin: 1733 End: 2100

Min RRF for SPCC(#) = 0.1 Max %RSD for CCC(*) = 30 %

LAB FILE ID: RRF1 =CAL1R.D RRF2 =CAL2R.D
RRF5 =CAL3.D RRF10 =CAL4.D RRF20 =CAL5.D

COMPOUND	RRF1	RRF2	RRF5	RRF10	RRF20	$\overline{RRF}$	%RSD OR R^2
MTBE	0.647	0.602	0.608	0.641	0.617		
==========							
Dibromofluoromethane(SURR)		0.358	0.236	0.282	0.312		
Toluene d8(SURR)		1.169	0.810	0.866	0.959		
4-Bromofluorobenzene(SURR)		1.732	1.176	1.273	1.430		
1,2-Dichloroethane-d4(SURR)		0.058	0.029	0.044	0.059		

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FORM VI

VOLATILE ORGANIC INITIAL CALIBRATION DATA

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP R1 / 364298.01.SL.R1.FW

Lab Code : PEL Case No. SAS No: SDG No.: 2509538

Instrument ID: VMS02 Calibration Date Begin: 06/14/08 End: 06/14/08

GC Column: DB-624 ID: 0.18 (mm) Calibration Time Begin: 1733 End: 2100

Min RRF for SPCC(#) = 0.1 Max %RSD for CCC(*) = 30 %

LAB FILE ID: RRF50 =CAL6.D RRF60 =CAL7.D
RRF80 =CAL8.D

COMPOUND		RRF50	RRF60	RRF80			$\overline{RRF}$	%RSD OR R^2	
Dichlorodifluoromethane		0.461	0.476	0.535			0.47311	5.6	
Chloromethane	#	0.426	0.448	0.507			0.54684	0.99892	#
Vinyl chloride	*	0.429	0.465	0.539			0.45592	8.9	*
Bromomethane		0.236	0.256	0.302			0.25421	8.5	
Chloroethane		0.249	0.260	0.311			0.28865	13.8	
Trichlorofluoromethane		0.524	0.518	0.627			0.52969	8.3	
1,1-Dichloroethene	*	0.531	0.557	0.539			0.53537	5.5	*
Acrolein		0.020	0.020	0.021			0.01909	10.3	
Methyl iodide		0.398	0.404	0.389			0.39972	3.8	
Carbon disulfide		0.615	0.628	0.634			0.62076	6.2	
Methylene chloride		0.307	0.295	0.303			0.32538	10.6	
trans-1,2-Dichloroethene		0.552	0.549	0.542			0.53502	3.4	
Acrylonitrile		0.063	0.066	0.063			0.05832	0.99926	
1,1-Dichloroethane	#	0.609	0.621	0.624			0.6242	4.4	#
Acetone		0.082	0.081	0.078			0.09294	14.7	
2,2-Dichloropropane		0.482	0.489	0.483			0.47314	3.1	
cis-1,2-Dichloroethene		0.299	0.311	0.311			0.29807	3.8	
Bromochloromethane		0.340	0.347	0.335			0.3348	5.9	
2-Butanone		0.093	0.093	0.087			0.09648	8.8	
Chloroform	*	0.624	0.618	0.620			0.66171	9.1	*
1,1,1-Trichloroethane		0.447	0.456	0.447			0.43101	6.7	
Carbon tetrachloride		0.345	0.354	0.352			0.3276	7	
1,1-Dichloropropene		0.451	0.454	0.455			0.4434	6.1	
Benzene		1.121	1.160	1.122			1.15355	2.2	
1,2-Dichloroethane		0.509	0.519	0.519			0.53789	5.5	
Trichloroethene		0.221	0.228	0.229			0.21971	5.9	
Vinyl acetate		1.246	1.259	1.235			1.26943	2.7	
1,2-Dichloropropane	*	0.317	0.323	0.321			0.30908	6.4	*
Dibromomethane		0.157	0.156	0.154			0.15165	10.2	
Bromodichloromethane		0.400	0.400	0.413			0.37132	9.2	
cis-1,3-Dichloropropene		0.387	0.409	0.406			0.35198	0.99947	
4-Methyl-2-pentanone		0.193	0.198	0.165			0.19667	7.8	
Toluene	*	0.648	0.638	0.642			0.65197	5	*
trans-1,3-Dichloropropene		0.325	0.327	0.331			0.27066	0.99977	

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FORM VI

VOLATILE ORGANIC INITIAL CALIBRATION DATA

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP R1 / 364298.01.SL.R1.FW

Lab Code : PEL Case No. SAS No: SDG No.: 2509538

Instrument ID: VMS02 Calibration Date Begin: 06/14/08 End: 06/14/08

GC Column: DB-624 ID: 0.18 (mm) Calibration Time Begin: 1733 End: 2100

Min RRF for SPCC(#) = 0.1 Max %RSD for CCC(*) = 30 %

LAB FILE ID: RRF50 =CAL6.D RRF60 =CAL7.D
RRF80 =CAL8.D

COMPOUND		RRF50	RRF60	RRF80			$\overline{RRF}$	%RSD OR R^2	
1,1,2-Trichloroethane		0.159	0.160	0.160			0.15304	7.1	
Tetrachloroethene		0.276	0.290	0.277			0.26271	7.3	
1,3-Dichloropropane		0.611	0.618	0.611			0.63522	6.8	
2-Hexanone		0.217	0.216	0.223			0.21104	9.7	
Dibromochloromethane		0.308	0.313	0.315			0.26202	0.9998	
1,2-Dibromoethane(EDB)		0.272	0.283	0.278			0.26696	14	
Chlorobenzene	#	0.995	1.012	1.008			0.98576	4.9	#
1,1,1,2-Tetrachloroethane		0.333	0.331	0.347			0.30634	12.7	
Ethylbenzene	*	0.531	0.549	0.534			0.51898	6.9	*
p,m-Xylene		0.634	0.650	0.649			0.63609	6.4	
o-Xylene		1.554	1.660	1.592			1.58421	3.3	
Styrene		1.069	1.117	1.100			0.97499	14.4	
Bromoform	#	0.123	0.138	0.136			0.10397	0.99783	#
Isopropylbenzene (Cumene)		3.591	3.769	3.673			3.65615	6.8	
Bromobenzene		1.848	1.953	1.886			1.80907	7.7	
1,1,2,2-Tetrachloroethane	#	0.648	0.676	0.646			0.67782	6.4	#
1,2,3-Trichloropropane		0.184	0.185	0.171			0.18862	0.99876	
n-Propylbenzene		4.557	4.927	4.714			4.71438	4.7	
2-Chlorotoluene		4.557	4.927	4.714			4.71438	4.7	
4-Chlorotoluene		3.197	3.259	3.175			3.35886	7.7	
1,3,5-Trimethylbenzene		2.847	3.027	2.951			2.95812	4.5	
tert-Butylbenzene		2.038	2.163	2.084			2.01883	12.1	
1,2,4-Trimethylbenzene		2.888	3.056	2.965			2.87908	4	
sec-Butylbenzene		3.210	3.307	3.182			3.22628	9.9	
1,3-Dichlorobenzene		1.385	1.483	1.430			1.40786	4.7	
1,4-Dichlorobenzene		1.458	1.509	1.502			1.68287	0.99974	
4-Isopropyltoluene		2.214	2.417	2.278			2.348	9.1	
n-Butylbenzene		2.070	2.640	2.530			2.31011	10.9	
1,2-Dichlorobenzene		1.154	1.204	1.216			1.19671	6.8	
1,2-Dibromo-3-chloropropane		0.089	0.093	0.092			0.06889	0.99823	
1,2,4-Trichlorobenzene		0.544	0.556	0.532			0.45048	0.99865	
Hexachlorobutadiene		0.237	0.288				0.24591	0.99378	
Naphthalene		0.660	0.811	0.815			0.58733	0.99482	
1,2,3-Trichlorobenzene		0.374	0.449	0.436			0.39305	0.99528	

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FORM VI

VOLATILE ORGANIC INITIAL CALIBRATION DATA

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP R1 / 364298.01.SL.R1.FW

Lab Code : PEL Case No. SAS No: SDG No.: 2509538

Instrument ID: VMS02 Calibration Date Begin: 06/14/08 End: 06/14/08

GC Column: DB-624 ID: 0.18 (mm) Calibration Time Begin: 1733 End: 2100

Min RRF for SPCC(#) = 0.1 Max %RSD for CCC(*) = 30 %

LAB FILE ID: RRF50 =CAL6.D RRF60 =CAL7.D
RRF80 =CAL8.D

COMPOUND	RRF50	RRF60	RRF80			$\overline{RRF}$	%RSD OR R^2
MTBE	0.617	0.623	0.600			0.61938	2.8
==========							
Dibromofluoromethane(SURR)	0.254	0.278	0.291			0.28733	13.9
Toluene d8(SURR)	0.816	0.851	0.928			0.91423	13.7
4-Bromofluorobenzene(SURR)	1.214	1.316	1.369			1.35847	13.7
1,2-Dichloroethane-d4(SURR)	0.050	0.051	0.058			0.04984	0.99443

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FORM VI

7SSC

VOLATILE ORGANIC SECONDARY SOURCE CALIBRATION DATA

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP R1 / 364298.01.SL.R1.FW

Lab Code : PEL Case No. SAS No: SDG No.: 2509538

Instrument ID: VMS02 CalibrationDate: 06/14/08 Time: 2151

CCV ID: SSC612680 Lab File ID: SEC21.D Init. Calib. Date Begin: 06/14/08 End: 06/14/08

GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) NO

Min RRF for SPCC(#) = 0.1 Max %D for CCC(*) = 20 %

COMPOUND		Expected	Found	%D / %Drift	Curve Type	
Dichlorodifluoromethane		0.47311	0.44243	6.5	AVRG	
Chloromethane	#	50	48.7	2.6	2ORD	#
Vinyl chloride	*	0.45592	0.45395	0.4	AVRG	*
Bromomethane		0.25421	0.25131	1.1	AVRG	
Chloroethane		0.28865	0.26084	9.6	AVRG	
Trichlorofluoromethane		0.52969	0.51915	2.0	AVRG	
1,1-Dichloroethene	*	0.53537	0.54904	2.6	AVRG	*
Acrolein		0.01909	0.01595	16.4	AVRG	
Methyl iodide		0.39972	0.40105	0.3	AVRG	
Carbon disulfide		0.62076	0.61949	0.2	AVRG	
Methylene chloride		0.32538	0.30198	7.2	AVRG	
trans-1,2-Dichloroethene		0.53502	0.54277	1.4	AVRG	
Acrylonitrile		80	79.7	0.4	2ORD	
1,1-Dichloroethane	#	0.6242	0.6275	0.5	AVRG	#
Acetone		0.09294	0.07494	19.4	AVRG	
2,2-Dichloropropane		0.47314	0.48589	2.7	AVRG	
cis-1,2-Dichloroethene		0.29807	0.29763	0.1	AVRG	
Bromochloromethane		0.3348	0.33752	0.8	AVRG	
2-Butanone		0.09648	0.08692	9.9	AVRG	
Chloroform	*	0.66171	0.62012	6.3	AVRG	*
1,1,1-Trichloroethane		0.43101	0.45255	5.0	AVRG	
Carbon tetrachloride		0.3276	0.34121	4.2	AVRG	
1,1-Dichloropropene		0.4434	0.45624	2.9	AVRG	
Benzene		1.15355	1.148	0.5	AVRG	
1,2-Dichloroethane		0.53789	0.51472	4.3	AVRG	
Trichloroethene		0.21971	0.22933	4.4	AVRG	
Vinyl acetate		1.26943	1.206	5.0	AVRG	
1,2-Dichloropropane	*	0.30908	0.32881	6.4	AVRG	*
Dibromomethane		0.15165	0.15472	2.0	AVRG	
Bromodichloromethane		0.37132	0.38734	4.3	AVRG	
cis-1,3-Dichloropropene		50	49.4	1.2	2ORD	
4-Methyl-2-pentanone		0.19667	0.18718	4.8	AVRG	
Toluene	*	0.65197	0.65462	0.4	AVRG	*
trans-1,3-Dichloropropene		50	50.1	0.2	2ORD	
1,1,2-Trichloroethane		0.15304	0.15751	2.9	AVRG	
Tetrachloroethene		0.26271	0.27338	4.1	AVRG	

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FORM VII

7SSC

VOLATILE ORGANIC SECONDARY SOURCE CALIBRATION DATA

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP R1 / 364298.01.SL.R1.FW

Lab Code : PEL Case No. SAS No: SDG No.: 2509538

Instrument ID: VMS02 CalibrationDate: 06/14/08 Time: 2151

CCV ID: SSC612680 Lab File ID: SEC21.D Init. Calib. Date Begin: 06/14/08 End: 06/14/08

GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) NO

Min RRF for SPCC(#) = 0.1 Max %D for CCC(*) = 20 %

COMPOUND		Expected	Found	%D / %Drift	Curve Type	
1,3-Dichloropropane		0.63522	0.5993	5.7	AVRG	
2-Hexanone		0.21104	0.20572	2.5	AVRG	
Dibromochloromethane		50	49.1	1.8	2ORD	
1,2-Dibromoethane(EDB)		0.26696	0.27534	3.1	AVRG	
Chlorobenzene	#	0.98576	1.009	2.4	AVRG	#
1,1,1,2-Tetrachloroethane		0.30634	0.3327	8.6	AVRG	
Ethylbenzene	*	0.51898	0.54943	5.9	AVRG	*
p,m-Xylene		0.63609	0.64885	2.0	AVRG	
o-Xylene		1.58421	1.641	3.6	AVRG	
Styrene		0.97499	1.115	14.4	AVRG	
Bromoform	#	50	49.6	0.8	2ORD	#
Isopropylbenzene (Cumene)		3.65615	3.764	2.9	AVRG	
Bromobenzene		1.80907	1.954	8.0	AVRG	
1,1,2,2-Tetrachloroethane	#	0.67782	0.65126	3.9	AVRG	#
1,2,3-Trichloropropane		50	46.1	7.8	2ORD	
n-Propylbenzene		4.71438	4.908	4.1	AVRG	
2-Chlorotoluene		4.71438	4.908	4.1	AVRG	
4-Chlorotoluene		3.35886	3.374	0.5	AVRG	
1,3,5-Trimethylbenzene		2.95812	3.07	3.8	AVRG	
tert-Butylbenzene		2.01883	2.199	8.9	AVRG	
1,2,4-Trimethylbenzene		2.87908	3.144	9.2	AVRG	
sec-Butylbenzene		3.22628	3.328	3.2	AVRG	
1,3-Dichlorobenzene		1.40786	1.44	2.3	AVRG	
1,4-Dichlorobenzene		50	51.9	3.8	2ORD	
4-Isopropyltoluene		2.348	2.586	10.1	AVRG	
n-Butylbenzene		2.31011	2.496	8.0	AVRG	
1,2-Dichlorobenzene		1.19671	1.244	4.0	AVRG	
1,2-Dibromo-3-chloropropane		50	44.7	10.6	2ORD	
1,2,4-Trichlorobenzene		50	52.6	5.2	2ORD	
Hexachlorobutadiene		50	51	2.0	2ORD	
Naphthalene		50	54.5	9.0	2ORD	
1,2,3-Trichlorobenzene		50	55.7	11.4	2ORD	
MTBE		0.61938	0.601	3.0	AVRG	
==========						
Dibromofluoromethane(SURR)		0.28733	0.2871	0.1	AVRG	
Toluene d8(SURR)		0.91423	0.94593	3.5	AVRG	

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FORM VII

7SSC

VOLATILE ORGANIC SECONDARY SOURCE CALIBRATION DATA

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP R1 / 364298.01.SL.R1.FW

Lab Code : PEL Case No. SAS No: SDG No.: 2509538

Instrument ID: VMS02 CalibrationDate: 06/14/08 Time: 2151

CCV ID: SSC612680 Lab File ID: SEC21.D Init. Calib. Date Begin: 06/14/08 End: 06/14/08

GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) NO

Min RRF for SPCC(#) = 0.1 Max %D for CCC(*) = 20 %

COMPOUND	Expected	Found	%D / %Drift	Curve Type
4-Bromofluorobenzene(SURR)	1.35847	1.411	3.9	AVRG
1,2-Dichloroethane-d4(SURR)	50	54.4	8.8	2ORD

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FORM VII

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VOLATILE ORGANIC CONTINUING CALIBRATION DATA

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP R1 / 364298.01.SL.R1.FW

Lab Code : PEL Case No. SAS No: SDG No.: 2509538

Instrument ID: VMS02 CalibrationDate: 06/17/08 Time: 0738

CCV ID: CCV612841 Lab File ID: CCV21.D Init. Calib. Date Begin: 06/14/08 End: 06/14/08

GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) NO

Min RRF for SPCC(#) = 0.1 Max %D for CCC(*) = 20 %

COMPOUND		Expected	Found	%D / %Drift	Curve Type	
Dichlorodifluoromethane		0.47311	0.34874	26.3	AVRG	<-
Chloromethane	#	50	43.1	13.8	2ORD #	
Vinyl chloride	*	0.45592	0.38569	15.4	AVRG *	
Bromomethane		0.25421	0.21986	13.5	AVRG	
Chloroethane		0.28865	0.24184	16.2	AVRG	
Trichlorofluoromethane		0.52969	0.4768	10.0	AVRG	
1,1-Dichloroethene	*	0.53537	0.53507	0.1	AVRG *	
Acrolein		0.01909	0.01252	34.4	AVRG	<-
Methyl iodide		0.39972	0.38603	3.4	AVRG	
Carbon disulfide		0.62076	0.60563	2.4	AVRG	
Methylene chloride		0.32538	0.28508	12.4	AVRG	
trans-1,2-Dichloroethene		0.53502	0.52248	2.3	AVRG	
Acrylonitrile		100	75.8	24.2	2ORD	<-
1,1-Dichloroethane	#	0.6242	0.61272	1.8	AVRG #	
Acetone		0.09294	0.06592	29.1	AVRG	<-
2,2-Dichloropropane		0.47314	0.50512	6.8	AVRG	
cis-1,2-Dichloroethene		0.29807	0.30347	1.8	AVRG	
Bromochloromethane		0.3348	0.31147	7.0	AVRG	
2-Butanone		0.09648	0.06409	33.6	AVRG	<-
Chloroform	*	0.66171	0.61279	7.4	AVRG *	
1,1,1-Trichloroethane		0.43101	0.44663	3.6	AVRG	
Carbon tetrachloride		0.3276	0.35258	7.6	AVRG	
1,1-Dichloropropene		0.4434	0.46001	3.7	AVRG	
Benzene		1.15355	1.133	1.8	AVRG	
1,2-Dichloroethane		0.53789	0.47543	11.6	AVRG	
Trichloroethene		0.21971	0.2197	0.0	AVRG	
Vinyl acetate		1.26943	1.116	12.1	AVRG	
1,2-Dichloropropane	*	0.30908	0.3051	1.3	AVRG *	
Dibromomethane		0.15165	0.14236	6.1	AVRG	
Bromodichloromethane		0.37132	0.36184	2.6	AVRG	
cis-1,3-Dichloropropene		50	46.9	6.2	2ORD	
4-Methyl-2-pentanone		0.19667	0.16922	14.0	AVRG	
Toluene	*	0.65197	0.63118	3.2	AVRG *	
trans-1,3-Dichloropropene		50	44.9	10.2	2ORD	
1,1,2-Trichloroethane		0.15304	0.14645	4.3	AVRG	
Tetrachloroethene		0.26271	0.28759	9.5	AVRG	

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FORM VII

7

VOLATILE ORGANIC CONTINUING CALIBRATION DATA

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP R1 / 364298.01.SL.R1.FW

Lab Code : PEL Case No. SAS No: SDG No.: 2509538

Instrument ID: VMS02 CalibrationDate: 06/17/08 Time: 0738

CCV ID: CCV612841 Lab File ID: CCV21.D Init. Calib. Date Begin: 06/14/08 End: 06/14/08

GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) NO

Min RRF for SPCC(#) = 0.1 Max %D for CCC(*) = 20 %

COMPOUND		Expected	Found	%D / %Drift	Curve Type	
1,3-Dichloropropane		0.63522	0.58604	7.7	AVRG	
2-Hexanone		0.21104	0.18741	11.2	AVRG	
Dibromochloromethane		50	45.7	8.6	2ORD	
1,2-Dibromoethane(EDB)		0.26696	0.25128	5.9	AVRG	
Chlorobenzene	#	0.98576	1.021	3.6	AVRG	#
1,1,1,2-Tetrachloroethane		0.30634	0.31957	4.3	AVRG	
Ethylbenzene	*	0.51898	0.54025	4.1	AVRG	*
p,m-Xylene		0.63609	0.67098	5.5	AVRG	
o-Xylene		1.58421	1.61	1.6	AVRG	
Styrene		0.97499	1.084	11.2	AVRG	
Bromoform	#	50	46.4	7.2	2ORD	#
Isopropylbenzene (Cumene)		3.65615	3.737	2.2	AVRG	
Bromobenzene		1.80907	1.901	5.1	AVRG	
1,1,2,2-Tetrachloroethane	#	0.67782	0.63493	6.3	AVRG	#
1,2,3-Trichloropropane		50	44	12.0	2ORD	
n-Propylbenzene		4.71438	4.819	2.2	AVRG	
2-Chlorotoluene		4.71438	4.819	2.2	AVRG	
4-Chlorotoluene		3.35886	3.29	2.1	AVRG	
1,3,5-Trimethylbenzene		2.95812	3.017	2.0	AVRG	
tert-Butylbenzene		2.01883	2.113	4.7	AVRG	
1,2,4-Trimethylbenzene		2.87908	2.994	4.0	AVRG	
sec-Butylbenzene		3.22628	3.309	2.6	AVRG	
1,3-Dichlorobenzene		1.40786	1.441	2.4	AVRG	
1,4-Dichlorobenzene		50	48	4.0	2ORD	
4-Isopropyltoluene		2.348	2.498	6.4	AVRG	
n-Butylbenzene		2.31011	2.468	6.8	AVRG	
1,2-Dichlorobenzene		1.19671	1.146	4.2	AVRG	
1,2-Dibromo-3-chloropropane		50	42.4	15.2	2ORD	
1,2,4-Trichlorobenzene		50	44.4	11.2	2ORD	
Hexachlorobutadiene		50	48.5	3.0	2ORD	
Naphthalene		50	42.8	14.4	2ORD	
1,2,3-Trichlorobenzene		50	44.5	11.0	2ORD	
MTBE		0.61938	0.52617	15.0	AVRG	
==========						
Dibromofluoromethane(SURR)		0.28733	0.26362	8.3	AVRG	
Toluene d8(SURR)		0.91423	0.84655	7.4	AVRG	

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FORM VII

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VOLATILE ORGANIC CONTINUING CALIBRATION DATA

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP R1 / 364298.01.SL.R1.FW

Lab Code : PEL Case No. SAS No: SDG No.: 2509538

Instrument ID: VMS02 CalibrationDate: 06/17/08 Time: 0738

CCV ID: CCV612841 Lab File ID: CCV21.D Init. Calib. Date Begin: 06/14/08 End: 06/14/08

GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) NO

Min RRF for SPCC(#) = 0.1 Max %D for CCC(*) = 20 %

COMPOUND	Expected	Found	%D / %Drift	Curve Type
4-Bromofluorobenzene(SURR)	1.35847	1.301	4.2	AVRG
1,2-Dichloroethane-d4(SURR)	50	47.9	4.2	2ORD

Average Used: 8.1

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FORM VII

Chain of Custody Documentation

120708 305

PEL Laboratories, Inc.
8405 Benjamin Rd, Suite A
Tampa, FL 33634
Phone: 813-888-9507
E-Mail: login@pelab.com

Chain of Custody Record
Record/Work Request

2509538 ADS

Company: CH2M HILL	Project Name/Number: SLOP R1 / 364298.01.02.R1.FW
Address: 727 N. First St., Suite 400, St. Louis, MO 63102	Project Manager: Chris English
Phone: 314-335-3023 Fax: 314-421-3427	Purchase Order:
Print Names(s) / Affiliation: Tony Swierczek / CH2M HILL	
Sampler(s) Signature(s):	

Page 1 of 1

DEP Form #: 62-770.900(2)
Form Title: Chain of Custody Record
Effective Date: September 23, 1997
FDEP Facility No.
Project Name:
Sampling CompQAP No:
Approval Date:
REQUESTED DUE DATE / /

Preservatives (see codes): H

Analyses Requested: VOCs 8260

Item No.	Field ID No.	Sampled Date	Sampled Time	Grab or Composite	Matrix (see codes)	Number of Containers	VOCs 8260	Remarks	Lab. No.
1	MW-117-W-00	6/12/08	1045	Grab	GW	3	X		-01
2	EB-061208	6/12/08	1115	-	W	3	X		-02
3	TB-061208	6/12/08	1140	-	W	1	X		-03
Shipment Method						7	← Total Number of Containers		

Out: 6/12/08	Via: FedEx	Item Nos.	Relinquished by / Affiliations	Date	Time	Accepted by / Affiliation	Date	Time
Returned: / /	Via.			6/5/08	1430			
Additional Comments: pH<2 8260			/ CH2M HILL	6/12/08	1400		6/13/08	0820

Cooler No. (s) / Temperature(s) (C)	Sampling Kit No.	Equipment ID No.
4C		

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) O = Other (specify)

PRESERVATION CODES: H-Hydrochloric acid + ice I = Ice only N = Nitric acid + ice S = Sulfuric acid + ice O = Other (specify)

2509538 R1

FedEx Express — *US Airbill*

FedEx Tracking Number 8627 4831 7291

0200 — **Recipient's Copy**

1 From

Date 06/12/08

Sender's Name [illegible] Phone 314 355-3043

Company CHAIN HILL

Address 727 N First St Suite 400

Dept./Floor/Suite/Room

City St Louis State MO ZIP 63102

2 Your Internal Billing Reference 042318.01.02.KA.FW/42719

3 To

Recipient's Name Sample Receiver Phone 813 888-9507

Company PEL Labs

Recipient's Address 8405 Benjamin Rd. Suite A

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

Address

To request a package be held at a specific FedEx location, print FedEx address here.

City Tampa State FL ZIP 33634

8627 4831 7291

4a Express Package Service — *Packages up to 150 lbs.*

- [x] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

FedEx Envelope rate not available. Minimum charge: One-pound rate.

* To most locations.

4b Express Freight Service — *Packages over 150 lbs.*

- [ ] FedEx 1Day Freight* — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

* Call for Confirmation:

** To most locations.

5 Packaging

- [ ] FedEx Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.
- [ ] FedEx Box
- [ ] FedEx Tube
- [x] Other

* Declared value limit $500.

6 Special Handling — Include FedEx address in Section 3.

- [ ] **SATURDAY Delivery** — Not available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
- [ ] **HOLD Weekday at FedEx Location** — Not available for FedEx First Overnight.
- [ ] **HOLD Saturday at FedEx Location** — Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Does this shipment contain dangerous goods? One box must be checked.

- [x] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry ice, 9, UN 1845 ____ x ____ kg
- [ ] Cargo Aircraft Only

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

7 Payment *Bill to:* — Enter FedEx Acct. No. or Credit Card No. below.

- [x] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

Obtain Recip. Acct. No. [ ]

Total Packages	Total Weight	Total Declared Value†
1		$ .00

†Our liability is limited to $100 unless you declare a higher value. See back for details.

Credit Card Auth.

8 Residential Delivery Signature Options — If you require a signature, check Direct or Indirect.

- [ ] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Someone at recipient's address may sign for delivery. *Fee applies.*
- [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. *Fee applies.*

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2509538-R1

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PEL, a Division of Spectrum Analytical, Inc.

pH LOG SHEET

Work Order # 2509538 By ADS

Client / Project Name SLOP CH2MHill Date 6/13/08

PEL Sample Number	H_2SO_4 (pH<2)		HNO_3 (pH<2)		NaOH (pH>12)		ZnAC/NaOH (pH>9)		HCl (pH<2)		Other _____ pH _____	
	No. of Containers	pH	No. of Containers	pH	No. of Containers	pH	No. of Containers	pH	No. of Containers	pH	No. of Containers	pH
01									3	<2		
02									3	↓		
03									ADS 21	—		
04												
05												
06												
07												
08												
09												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

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2509538 R1

SAMPLE RECEIPT CONFIRMATION SHEET

Client Information

SDG:	2509538	**Req:**	85624
Client:	CH2M Hill	**Project:**	Hanley Area
Level:	3	**Date Rec'd:**	6/13/2008 8:20:00 AM
Rec'd via:	Fed-Ex	**Due Date:**	06/23/08

Sample Verification

Samples/Cooler Secure?	Yes	**All Samples on COC accounted For?**	Yes
Temperature of Samples(Celsius)	4C	**All Samples Rec'd Intact?**	Yes
pH Verified?	Yes	**Sample Vol. Stuff. For Analysis?**	Yes
pH WNL?	Yes	**Samples Rec'd W/I Hold Time?**	Yes
Soil Origin (Domestic/Foreign):		**Are All Samples to be Analyzed?**	Yes
Site Location/Project on COC?	Yes	**Correct Sample Containers?**	Yes
Client Project # on COC?	Yes	**COC Comments written on COC?**	Yes
Project Mgr. Indicated on COC?	Yes	**Samplers Initials on COC?**	Yes
COC relinquished/Dated by Client?	Yes	**Sample Date/Time Indicated?**	Yes
COC Received/Dated by PEL?	Yes	**TAT Requested:**	STD
Specific Subcontract Indicated?	No	**Client Requests Verbal Results?**	No
Samples Received By	Fed-Ex	**Client Requests Faxed Results?**	No
PEL to Conduct ALL Analyses?	Yes		

PEER REVIEW

Client: CH2M Hill

WONo: 2509538 **Profile Name:** SLOP2 **Profile #:** 85624

MATRIX ***W***

Sample #	Parameter		Relinquished	Received	Date	Time
01 - 03	8260	Volatile Organic Compounds	ML for KC	PP	6/17/08	0800
01 - 03	8260	Volatile Organic Compounds				

consumed.

Additional:

Comments:

Addendum

120708 305

Letter of Acceptance

Customer Name: CH2M Hill

Date and Time Received: 6/13/2008 8:20:00 AM

Date to be Reported: 7/4/2008

Laboratory Submission Number/SDG: 2509538

Get Detailed Analyte List here: www.pelab.com/webdms/Default.asp?LoaSDG=2509538

Project: SLOP R1 / 364298.01.SL.R1.FW

Samples: The submission consisted of 3 samples with sample identification shown in the attached data tables.

Tests: The Samples will be analyzed for EPA methods: 8260.

Sample Custody/COC discrepancies:

None.

Notes:

None.

Distribution of Report to:

CH2M Hill
Attn: Dave Lee
Phone: W 314-421-0900

Note: Submitted material will be retained for 30 days unless otherwise requested by client or consumed in analysis. PEL letters and reports are for the exclusive use of the client to whom they are addressed. Our letters and reports apply to the sample tested and are not necessarily indicative of the qualities of apparently identical or similar materials

Log-in Report

Level: 3

Total of: 3 analyses on 3 samples (including QC) *17-Jun-08*

Report/SDG #: 2509538

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
MW-117-W-00	250953801		W	6/12/2008 10:45:00 AM	6/13/2008 8:20:00 AM

Method		
8260	Volatile Organic Compounds	8260

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
EB-061208	250953802		WQ	6/12/2008 11:15:00 AM	6/13/2008 8:20:00 AM

Method		
8260	Volatile Organic Compounds	8260

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
TB-061208	250953803		WQ	6/12/2008 11:40:00 AM	6/13/2008 8:20:00 AM

Method		
8260	Volatile Organic Compounds	8260

DRAFT

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
MW-111-W-00

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.F

Lab Code : PEL Case No. SAS No: SDG No.: 2509461

Matrix: WATER Lab Sample ID: 250946101 Lab File ID: 46101.D

Sample wt/vol: 5 Units: ML Date Received: 06/07/08

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/10/08 Time: 0402

PercentSolids: 0 decanted : Dilution Factor: 50

Extraction: PURGETRAP Station ID: Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
75-71-8	Dichlorodifluoromethane	50	U
74-87-3	Chloromethane	50	U
75-01-4	Vinyl chloride	50	U
74-83-9	Bromomethane	50	U
75-00-3	Chloroethane	50	U
75-69-4	Trichlorofluoromethane	50	U
75-35-4	1,1-Dichloroethene	50	U
107-02-8	Acrolein	500	U
74-88-4	Methyl iodide	100	U
75-15-0	Carbon disulfide	50	U
75-09-2	Methylene chloride	50	U
156-60-5	trans-1,2-Dichloroethene	50	U
107-13-1	Acrylonitrile	200	U
75-34-3	1,1-Dichloroethane	50	U
67-64-1	Acetone	500	U
594-20-7	2,2-Dichloropropane	50	U
156-59-2	cis-1,2-Dichloroethene	281	
74-97-5	Bromochloromethane	50	U
78-93-3	2-Butanone	500	U
67-66-3	Chloroform	23.8	J
71-55-6	1,1,1-Trichloroethane	50	U
56-23-5	Carbon tetrachloride	50	U
563-58-6	1,1-Dichloropropene	50	U
71-43-2	Benzene	50	U
107-06-2	1,2-Dichloroethane	50	U
79-01-6	Trichloroethene	1620	
108-05-4	Vinyl acetate	100	U

DRAFT

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
MW-111-W-00

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.F

Lab Code : PEL Case No. SAS No: SDG No.: 2509461

Matrix: WATER Lab Sample ID: 250946101 Lab File ID: 46101.D

Sample wt/vol: 5 Units: ML Date Received: 06/07/08

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/10/08 Time: 0402

PercentSolids: 0 decanted : Dilution Factor: 50

Extraction: PURGETRAP Station ID: Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
78-87-5	1,2-Dichloropropane	50	U
74-95-3	Dibromomethane	50	U
75-27-4	Bromodichloromethane	50	U
10061-01-5	cis-1,3-Dichloropropene	50	U
108-10-1	4-Methyl-2-pentanone	250	U
108-88-3	Toluene	50	U
10061-02-6	trans-1,3-Dichloropropene	50	U
79-00-5	1,1,2-Trichloroethane	50	U
127-18-4	Tetrachloroethene	35400	E
142-28-9	1,3-Dichloropropane	50	U
591-78-6	2-Hexanone	250	U
124-48-1	Dibromochloromethane	50	U
106-93-4	1,2-Dibromoethane(EDB)	50	U
108-90-7	Chlorobenzene	50	U
630-20-6	1,1,1,2-Tetrachloroethane	50	U
100-41-4	Ethylbenzene	50	U
511-39-00	p,m-Xylene	100	U
95-47-6	o-Xylene	50	U
100-42-5	Styrene	50	U
75-25-2	Bromoform	50	U
98-82-8	Isopropylbenzene (Cumene)	50	U
108-86-1	Bromobenzene	50	U
79-34-5	1,1,2,2-Tetrachloroethane	50	U
96-18-4	1,2,3-Trichloropropane	50	U
103-65-1	n-Propylbenzene	50	U
95-49-8	2-Chlorotoluene	50	U
106-43-4	4-Chlorotoluene	50	U

DRAFT

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
MW-111-W-00

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.F

Lab Code : PEL Case No. SAS No: SDG No.: 2509461

Matrix: WATER Lab Sample ID: 250946101 Lab File ID: 46101.D

Sample wt/vol: 5 Units: ML Date Received: 06/07/08

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/10/08 Time: 0402

PercentSolids: 0 decanted : Dilution Factor: 50

Extraction: PURGETRAP Station ID: Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
108-67-8	1,3,5-Trimethylbenzene	50	U
98-06-6	tert-Butylbenzene	50	U
95-63-6	1,2,4-Trimethylbenzene	50	U
135-98-8	sec-Butylbenzene	50	U
541-73-1	1,3-Dichlorobenzene	50	U
106-46-7	1,4-Dichlorobenzene	50	U
99-87-6	4-Isopropyltoluene	50	U
104-51-8	n-Butylbenzene	50	U
95-50-1	1,2-Dichlorobenzene	50	U
96-12-8	1,2-Dibromo-3-chloropropane	100	U
120-82-1	1,2,4-Trichlorobenzene	50	U
87-68-3	Hexachlorobutadiene	50	U
91-20-3	Naphthalene	50	U
87-61-6	1,2,3-Trichlorobenzene	50	U
1634-04-4	MTBE	50	U
74-96-4	Bromoethane	50	U

DRAFT

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
MW-111-W-00DL1

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.F

Lab Code : PEL Case No. SAS No: SDG No.: 2509461

Matrix: WATER Lab Sample ID: 250946101DL1 Lab File ID: 46101D.D

Sample wt/vol: 5 Units: ML Date Received: 06/07/08

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/09/08 Time: 2139

PercentSolids: 0 decanted : Dilution Factor: 1000

Extraction: PURGETRAP Station ID: Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
75-71-8	Dichlorodifluoromethane	1000	U
74-87-3	Chloromethane	1000	U
75-01-4	Vinyl chloride	1000	U
74-83-9	Bromomethane	1000	U
75-00-3	Chloroethane	1000	U
75-69-4	Trichlorofluoromethane	1000	U
75-35-4	1,1-Dichloroethene	1000	U
107-02-8	Acrolein	10000	U
74-88-4	Methyl iodide	2000	U
75-15-0	Carbon disulfide	1000	U
75-09-2	Methylene chloride	1000	U
156-60-5	trans-1,2-Dichloroethene	1000	U
107-13-1	Acrylonitrile	4000	U
75-34-3	1,1-Dichloroethane	1000	U
67-64-1	Acetone	10000	U
594-20-7	2,2-Dichloropropane	1000	U
156-59-2	cis-1,2-Dichloroethene	1000	U
74-97-5	Bromochloromethane	1000	U
78-93-3	2-Butanone	10000	U
67-66-3	Chloroform	1000	U
71-55-6	1,1,1-Trichloroethane	1000	U
56-23-5	Carbon tetrachloride	1000	U
563-58-6	1,1-Dichloropropene	1000	U
71-43-2	Benzene	1000	U
107-06-2	1,2-Dichloroethane	1000	U
79-01-6	Trichloroethene	1510	
108-05-4	Vinyl acetate	2000	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
MW-111-W-00DL1

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.F

Lab Code : PEL Case No. SAS No: SDG No.: 2509461

Matrix: WATER Lab Sample ID: 250946101DL1 Lab File ID: 46101D.D

Sample wt/vol: 5 Units: ML Date Received: 06/07/08

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/09/08 Time: 2139

PercentSolids: 0 decanted : Dilution Factor: 1000

Extraction: PURGETRAP Station ID: Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
78-87-5	1,2-Dichloropropane	1000	U
74-95-3	Dibromomethane	1000	U
75-27-4	Bromodichloromethane	1000	U
10061-01-5	cis-1,3-Dichloropropene	1000	U
108-10-1	4-Methyl-2-pentanone	5000	U
108-88-3	Toluene	1000	U
10061-02-6	trans-1,3-Dichloropropene	1000	U
79-00-5	1,1,2-Trichloroethane	1000	U
127-18-4	Tetrachloroethene	34900	
142-28-9	1,3-Dichloropropane	1000	U
591-78-6	2-Hexanone	5000	U
124-48-1	Dibromochloromethane	1000	U
106-93-4	1,2-Dibromoethane(EDB)	1000	U
108-90-7	Chlorobenzene	1000	U
630-20-6	1,1,1,2-Tetrachloroethane	1000	U
100-41-4	Ethylbenzene	1000	U
511-39-00	p,m-Xylene	2000	U
95-47-6	o-Xylene	1000	U
100-42-5	Styrene	1000	U
75-25-2	Bromoform	1000	U
98-82-8	Isopropylbenzene (Cumene)	1000	U
108-86-1	Bromobenzene	1000	U
79-34-5	1,1,2,2-Tetrachloroethane	1000	U
96-18-4	1,2,3-Trichloropropane	1000	U
103-65-1	n-Propylbenzene	1000	U
95-49-8	2-Chlorotoluene	1000	U
106-43-4	4-Chlorotoluene	1000	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
MW-111-W-00DL1

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.F

Lab Code : PEL Case No. SAS No: SDG No.: 2509461

Matrix: WATER Lab Sample ID: 250946101DL1 Lab File ID: 46101D.D

Sample wt/vol: 5 Units: ML Date Received: 06/07/08

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/09/08 Time: 2139

PercentSolids: 0 decanted : Dilution Factor: 1000

Extraction: PURGETRAP Station ID: Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
108-67-8	1,3,5-Trimethylbenzene	1000	U
98-06-6	tert-Butylbenzene	1000	U
95-63-6	1,2,4-Trimethylbenzene	1000	U
135-98-8	sec-Butylbenzene	1000	U
541-73-1	1,3-Dichlorobenzene	1000	U
106-46-7	1,4-Dichlorobenzene	1000	U
99-87-6	4-Isopropyltoluene	1000	U
104-51-8	n-Butylbenzene	1000	U
95-50-1	1,2-Dichlorobenzene	1000	U
96-12-8	1,2-Dibromo-3-chloropropane	2000	U
120-82-1	1,2,4-Trichlorobenzene	1000	U
87-68-3	Hexachlorobutadiene	1000	U
91-20-3	Naphthalene	1000	U
87-61-6	1,2,3-Trichlorobenzene	1000	U
1634-04-4	MTBE	1000	U
74-96-4	Bromoethane	1000	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EB-060608

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.F

Lab Code : PEL Case No. SAS No: SDG No.: 2509461

Matrix: WATER Lab Sample ID: 250946102 Lab File ID: 46102.D

Sample wt/vol: 5 Units: ML Date Received: 06/07/08

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/09/08 Time: 2202

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
75-71-8	Dichlorodifluoromethane	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
75-35-4	1,1-Dichloroethene	1	U
107-02-8	Acrolein	10	U
74-88-4	Methyl iodide	2	U
75-15-0	Carbon disulfide	1	U
75-09-2	Methylene chloride	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
107-13-1	Acrylonitrile	4	U
75-34-3	1,1-Dichloroethane	1	U
67-64-1	Acetone	10	U
594-20-7	2,2-Dichloropropane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
74-97-5	Bromochloromethane	1	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
563-58-6	1,1-Dichloropropene	1	U
71-43-2	Benzene	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
108-05-4	Vinyl acetate	2	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EB-060608

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.F

Lab Code : PEL Case No. SAS No: SDG No.: 2509461

Matrix: WATER Lab Sample ID: 250946102 Lab File ID: 46102.D

Sample wt/vol: 5 Units: ML Date Received: 06/07/08

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/09/08 Time: 2202

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
78-87-5	1,2-Dichloropropane	1	U
74-95-3	Dibromomethane	1	U
75-27-4	Bromodichloromethane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1	U
142-28-9	1,3-Dichloropropane	1	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane(EDB)	1	U
108-90-7	Chlorobenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
100-41-4	Ethylbenzene	1	U
511-39-00	p,m-Xylene	2	U
95-47-6	o-Xylene	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
98-82-8	Isopropylbenzene (Cumene)	1	U
108-86-1	Bromobenzene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
96-18-4	1,2,3-Trichloropropane	1	U
103-65-1	n-Propylbenzene	1	U
95-49-8	2-Chlorotoluene	1	U
106-43-4	4-Chlorotoluene	1	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
EB-060608

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.F

Lab Code : PEL Case No. SAS No: SDG No.: 2509461

Matrix: WATER Lab Sample ID: 250946102 Lab File ID: 46102.D

Sample wt/vol: 5 Units: ML Date Received: 06/07/08

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/09/08 Time: 2202

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
108-67-8	1,3,5-Trimethylbenzene	1	U
98-06-6	tert-Butylbenzene	1	U
95-63-6	1,2,4-Trimethylbenzene	1	U
135-98-8	sec-Butylbenzene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
99-87-6	4-Isopropyltoluene	1	U
104-51-8	n-Butylbenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	2	U
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	1	U
91-20-3	Naphthalene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U
1634-04-4	MTBE	1	U
74-96-4	Bromoethane	1	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

TB-060608

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.F

Lab Code : PEL Case No. SAS No: SDG No.: 2509461

Matrix: WATER Lab Sample ID: 250946103 Lab File ID: 46103.D

Sample wt/vol: 5 Units: ML Date Received: 06/07/08

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/09/08 Time: 2226

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
75-71-8	Dichlorodifluoromethane	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
75-35-4	1,1-Dichloroethene	1	U
107-02-8	Acrolein	10	U
74-88-4	Methyl iodide	2	U
75-15-0	Carbon disulfide	1	U
75-09-2	Methylene chloride	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
107-13-1	Acrylonitrile	4	U
75-34-3	1,1-Dichloroethane	1	U
67-64-1	Acetone	10	U
594-20-7	2,2-Dichloropropane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
74-97-5	Bromochloromethane	1	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
563-58-6	1,1-Dichloropropene	1	U
71-43-2	Benzene	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
108-05-4	Vinyl acetate	2	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

TB-060608

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.F

Lab Code : PEL Case No. SAS No: SDG No.: 2509461

Matrix: WATER Lab Sample ID: 250946103 Lab File ID: 46103.D

Sample wt/vol: 5 Units: ML Date Received: 06/07/08

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/09/08 Time: 2226

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
78-87-5	1,2-Dichloropropane	1	U
74-95-3	Dibromomethane	1	U
75-27-4	Bromodichloromethane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1	U
142-28-9	1,3-Dichloropropane	1	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane(EDB)	1	U
108-90-7	Chlorobenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
100-41-4	Ethylbenzene	1	U
511-39-00	p,m-Xylene	2	U
95-47-6	o-Xylene	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
98-82-8	Isopropylbenzene (Cumene)	1	U
108-86-1	Bromobenzene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
96-18-4	1,2,3-Trichloropropane	1	U
103-65-1	n-Propylbenzene	1	U
95-49-8	2-Chlorotoluene	1	U
106-43-4	4-Chlorotoluene	1	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

TB-060608

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.F

Lab Code : PEL Case No. SAS No: SDG No.: 2509461

Matrix: WATER Lab Sample ID: 250946103 Lab File ID: 46103.D

Sample wt/vol: 5 Units: ML Date Received: 06/07/08

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/09/08 Time: 2226

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
108-67-8	1,3,5-Trimethylbenzene	1	U
98-06-6	tert-Butylbenzene	1	U
95-63-6	1,2,4-Trimethylbenzene	1	U
135-98-8	sec-Butylbenzene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
99-87-6	4-Isopropyltoluene	1	U
104-51-8	n-Butylbenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	2	U
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	1	U
91-20-3	Naphthalene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U
1634-04-4	MTBE	1	U
74-96-4	Bromoethane	1	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
Disposal - 1

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.F

Lab Code : PEL Case No. SAS No: SDG No.: 2509461

Matrix: WATER Lab Sample ID: 250946104 Lab File ID: 46104R.D

Sample wt/vol: 5 Units: ML Date Received: 06/07/08

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/16/08 Time: 1607

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
75-71-8	Dichlorodifluoromethane	1.7	U
74-87-3	Chloromethane	1.4	U
75-01-4	Vinyl chloride	1.4	U
74-83-9	Bromomethane	2.3	U
75-00-3	Chloroethane	2.8	U
75-69-4	Trichlorofluoromethane	1.4	U
75-35-4	1,1-Dichloroethene	1.3	U
75-15-0	Carbon disulfide	1.1	U
75-09-2	Methylene chloride	1.6	U
156-60-5	trans-1,2-Dichloroethene	1.2	U
75-34-3	1,1-Dichloroethane	1.1	U
67-64-1	Acetone	19.9	
156-59-2	cis-1,2-Dichloroethene	1.4	U
74-97-5	Bromochloromethane	2.2	U
78-93-3	2-Butanone	12	U
67-66-3	Chloroform	1.4	U
71-55-6	1,1,1-Trichloroethane	1.1	U
56-23-5	Carbon tetrachloride	1.5	U
71-43-2	Benzene	1	U
107-06-2	1,2-Dichloroethane	1.3	U
79-01-6	Trichloroethene	1.1	U
78-87-5	1,2-Dichloropropane	1.6	U
75-27-4	Bromodichloromethane	1.3	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	1.2	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
Disposal - 1

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.F

Lab Code : PEL Case No. SAS No: SDG No.: 2509461

Matrix: WATER Lab Sample ID: 250946104 Lab File ID: 46104R.D

Sample wt/vol: 5 Units: ML Date Received: 06/07/08

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/16/08 Time: 1607

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
79-00-5	1,1,2-Trichloroethane	1.7	U
127-18-4	Tetrachloroethene	0.97	J
591-78-6	2-Hexanone	6	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane(EDB)	1.5	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1.5	U
75-25-2	Bromoform	1.9	U
98-82-8	Isopropylbenzene (Cumene)	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1.5	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1.1	U
96-12-8	1,2-Dibromo-3-chloropropane	4.2	U
120-82-1	1,2,4-Trichlorobenzene	2.1	U
87-61-6	1,2,3-Trichlorobenzene	1.8	U
1330-20-7	Xylene (total)	3	U
1634-04-4	MTBE	1.5	U
76-13-1	1,1,2-Trichlorotrifluoroethane	2.4	U
108-87-2	Methyl Cyclohexane	1.9	U
79-20-9	Methyl Acetate	1.1	J
110-82-7	Cyclohexane	1.3	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
Disposal - 1DL1

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.F

Lab Code : PEL Case No. SAS No: SDG No.: 2509461

Matrix: WATER Lab Sample ID: 250946104DL1 Lab File ID: 46104.D

Sample wt/vol: 5 Units: ML Date Received: 06/07/08

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/16/08 Time: 1227

PercentSolids: 0 decanted : Dilution Factor: 10

Extraction: PURGETRAP Station ID: Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
75-71-8	Dichlorodifluoromethane	16.8	U
74-87-3	Chloromethane	14.4	U
75-01-4	Vinyl chloride	13.8	U
74-83-9	Bromomethane	22.8	U
75-00-3	Chloroethane	28.5	U
75-69-4	Trichlorofluoromethane	14.4	U
75-35-4	1,1-Dichloroethene	13.2	U
75-15-0	Carbon disulfide	11.4	U
75-09-2	Methylene chloride	15.6	U
156-60-5	trans-1,2-Dichloroethene	11.7	U
75-34-3	1,1-Dichloroethane	10.8	U
67-64-1	Acetone	47	J
156-59-2	cis-1,2-Dichloroethene	13.8	U
74-97-5	Bromochloromethane	22.2	U
78-93-3	2-Butanone	120	U
67-66-3	Chloroform	14.1	U
71-55-6	1,1,1-Trichloroethane	10.8	U
56-23-5	Carbon tetrachloride	15.3	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	13.2	U
79-01-6	Trichloroethene	8.4	J
78-87-5	1,2-Dichloropropane	15.9	U
75-27-4	Bromodichloromethane	13.2	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	50	U
108-88-3	Toluene	3.2	J
10061-02-6	trans-1,3-Dichloropropene	11.7	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
Disposal - 1DL1

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.F

Lab Code : PEL Case No. SAS No: SDG No.: 2509461

Matrix: WATER Lab Sample ID: 250946104DL1 Lab File ID: 46104.D

Sample wt/vol: 5 Units: ML Date Received: 06/07/08

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/16/08 Time: 1227

PercentSolids: 0 decanted : Dilution Factor: 10

Extraction: PURGETRAP Station ID: Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
79-00-5	1,1,2-Trichloroethane	17.1	U
127-18-4	Tetrachloroethene	112	
591-78-6	2-Hexanone	60	U
124-48-1	Dibromochloromethane	10.2	U
106-93-4	1,2-Dibromoethane(EDB)	14.7	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	15	U
75-25-2	Bromoform	18.6	U
98-82-8	Isopropylbenzene (Cumene)	10	U
79-34-5	1,1,2,2-Tetrachloroethane	15	U
541-73-1	1,3-Dichlorobenzene	10.5	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	11.4	U
96-12-8	1,2-Dibromo-3-chloropropane	42	U
120-82-1	1,2,4-Trichlorobenzene	20.7	U
87-61-6	1,2,3-Trichlorobenzene	18	U
1330-20-7	Xylene (total)	30	U
1634-04-4	MTBE	15.3	U
76-13-1	1,1,2-Trichlorotrifluoroethane	23.7	U
108-87-2	Methyl Cyclohexane	19.2	U
79-20-9	Methyl Acetate	72	U
110-82-7	Cyclohexane	12.6	U

DRAFT

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
Disposal - 2

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.F

Lab Code : PEL Case No. SAS No: SDG No.: 2509461

Matrix: WATER Lab Sample ID: 250946105 Lab File ID: 46105.D

Sample wt/vol: 5 Units: ML Date Received: 06/07/08

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/16/08 Time: 1203

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
75-71-8	Dichlorodifluoromethane	1.7	U
74-87-3	Chloromethane	1.4	U
75-01-4	Vinyl chloride	1.4	U
74-83-9	Bromomethane	2.3	U
75-00-3	Chloroethane	2.8	U
75-69-4	Trichlorofluoromethane	1.4	U
75-35-4	1,1-Dichloroethene	1.3	U
75-15-0	Carbon disulfide	1.1	U
75-09-2	Methylene chloride	1.6	U
156-60-5	trans-1,2-Dichloroethene	1.2	U
75-34-3	1,1-Dichloroethane	1.1	U
67-64-1	Acetone	10.6	J
156-59-2	cis-1,2-Dichloroethene	0.58	J
74-97-5	Bromochloromethane	2.2	U
78-93-3	2-Butanone	12	U
67-66-3	Chloroform	1.4	U
71-55-6	1,1,1-Trichloroethane	1.1	U
56-23-5	Carbon tetrachloride	1.5	U
71-43-2	Benzene	1	U
107-06-2	1,2-Dichloroethane	1.3	U
79-01-6	Trichloroethene	1.1	U
78-87-5	1,2-Dichloropropane	1.6	U
75-27-4	Bromodichloromethane	1.3	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-10-1	4-Methyl-2-pentanone	2.1	J
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	1.2	U

DRAFT

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.
Disposal - 2

Lab Name: PEL, Spectrum Analytical, Inc. Contract: SLOP RI \ 364298.01.SL.RI.F

Lab Code : PEL Case No. SAS No: SDG No.: 2509461

Matrix: WATER Lab Sample ID: 250946105 Lab File ID: 46105.D

Sample wt/vol: 5 Units: ML Date Received: 06/07/08

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 06/16/08 Time: 1203

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
79-00-5	1,1,2-Trichloroethane	1.7	U
127-18-4	Tetrachloroethene	2.6	
591-78-6	2-Hexanone	6	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane(EDB)	1.5	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1.5	U
75-25-2	Bromoform	1.9	U
98-82-8	Isopropylbenzene (Cumene)	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1.5	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1.1	U
96-12-8	1,2-Dibromo-3-chloropropane	4.2	U
120-82-1	1,2,4-Trichlorobenzene	2.1	U
87-61-6	1,2,3-Trichlorobenzene	1.8	U
1330-20-7	Xylene (total)	3	U
1634-04-4	MTBE	1.5	U
76-13-1	1,1,2-Trichlorotrifluoroethane	2.4	U
108-87-2	Methyl Cyclohexane	1.9	U
79-20-9	Methyl Acetate	7.2	U
110-82-7	Cyclohexane	1.3	U

4.00AFCEE3	CASS	P0801616	SLOP-6317-AA-N	SLOP-6317-AA-N	N	AIR	P0801616-001	TO15SIM	NONE	5/29/2008	8:50	5/30/2008	6/9/2008	13:50	0	MS706090	75-01-4	VC	VINYL CHL
4.00AFCEE3	CASS	P0801616	SLOP-6317-AA-N	SLOP-6317-AA-N	N	AIR	P0801616-001	TO15SIM	NONE	5/29/2008	8:50	5/30/2008	6/9/2008	13:50	0	MS706090	156-60-5	DCE12T	TRANS-1,2
4.00AFCEE3	CASS	P0801616	SLOP-6317-AA-N	SLOP-6317-AA-N	N	AIR	P0801616-001	TO15SIM	NONE	5/29/2008	8:50	5/30/2008	6/9/2008	13:50	0	MS706090	156-59-2	DCE12C	cis-1,2-DIC
4.00AFCEE3	CASS	P0801616	SLOP-6317-AA-N	SLOP-6317-AA-N	N	AIR	P0801616-001	TO15SIM	NONE	5/29/2008	8:50	5/30/2008	6/9/2008	13:50	0	MS706090	107-06-2	DCA12	1,2-DICHL
4.00AFCEE3	CASS	P0801616	SLOP-6317-AA-N	SLOP-6317-AA-N	N	AIR	P0801616-001	TO15SIM	NONE	5/29/2008	8:50	5/30/2008	6/9/2008	13:50	0	MS706090	79-01-6	TCE	TRICHLOR
4.00AFCEE3	CASS	P0801616	SLOP-6317-AA-N	SLOP-6317-AA-N	N	AIR	P0801616-001	TO15SIM	NONE	5/29/2008	8:50	5/30/2008	6/9/2008	13:50	0	MS706090	127-18-4	PCE	TETRACHI
4.00AFCEE3	CASS	P0801616	MS7060908MB1	MS7060908	LB	AIR	P080609-MB	TO15SIM	NONE				6/9/2008	11:33	0	MS706090	75-01-4	VC	VINYL CHL
4.00AFCEE3	CASS	P0801616	MS7060908MB1	MS7060908	LB	AIR	P080609-MB	TO15SIM	NONE				6/9/2008	11:33	0	MS706090	156-60-5	DCE12T	TRANS-1,2
4.00AFCEE3	CASS	P0801616	MS7060908MB1	MS7060908	LB	AIR	P080609-MB	TO15SIM	NONE				6/9/2008	11:33	0	MS706090	156-59-2	DCE12C	cis-1,2-DIC
4.00AFCEE3	CASS	P0801616	MS7060908MB1	MS7060908	LB	AIR	P080609-MB	TO15SIM	NONE				6/9/2008	11:33	0	MS706090	107-06-2	DCA12	1,2-DICHL
4.00AFCEE3	CASS	P0801616	MS7060908MB1	MS7060908	LB	AIR	P080609-MB	TO15SIM	NONE				6/9/2008	11:33	0	MS706090	79-01-6	TCE	TRICHLOR
4.00AFCEE3	CASS	P0801616	MS7060908MB1	MS7060908	LB	AIR	P080609-MB	TO15SIM	NONE				6/9/2008	11:33	0	MS706090	127-18-4	PCE	TETRACHI
4.00AFCEE3	CASS	P0801616	MS7060908MB1	MS7060908	LB	AIR	P080609-MB	TO15SIM	NONE				6/9/2008	11:33	0	MS706090	17060-07-	DCA12D4	1,2-DICHL
4.00AFCEE3	CASS	P0801616	MS7060908MB1	MS7060908	LB	AIR	P080609-MB	TO15SIM	NONE				6/9/2008	11:33	0	MS706090	2037-26-5	BZMED8	TOLUENE-
4.00AFCEE3	CASS	P0801616	MS7060908MB1	MS7060908	LB	AIR	P080609-MB	TO15SIM	NONE				6/9/2008	11:33	0	MS706090	460-00-4	BR4FBZ	1-BROMO-
4.00AFCEE3	CASS	P0801616	MS7060908LCS1	MS7060908	BS	AIR	P080609-LCS	TO15SIM	NONE				6/9/2008	12:24	0	MS706090	17060-07-	DCA12D4	1,2-DICHL
4.00AFCEE3	CASS	P0801616	MS7060908LCS1	MS7060908	BS	AIR	P080609-LCS	TO15SIM	NONE				6/9/2008	12:24	0	MS706090	2037-26-5	BZMED8	TOLUENE-
4.00AFCEE3	CASS	P0801616	MS7060908LCS1	MS7060908	BS	AIR	P080609-LCS	TO15SIM	NONE				6/9/2008	12:24	0	MS706090	460-00-4	BR4FBZ	1-BROMO-
4.00AFCEE3	CASS	P0801616	SLOP-6317-AA-N	SLOP-6317-AA-N	N	AIR	P0801616-001	TO15SIM	NONE	5/29/2008	8:50	5/30/2008	6/9/2008	13:50	0	MS706090	17060-07-	DCA12D4	1,2-DICHL
4.00AFCEE3	CASS	P0801616	SLOP-6317-AA-N	SLOP-6317-AA-N	N	AIR	P0801616-001	TO15SIM	NONE	5/29/2008	8:50	5/30/2008	6/9/2008	13:50	0	MS706090	2037-26-5	BZMED8	TOLUENE-
4.00AFCEE3	CASS	P0801616	SLOP-6317-AA-N	SLOP-6317-AA-N	N	AIR	P0801616-001	TO15SIM	NONE	5/29/2008	8:50	5/30/2008	6/9/2008	13:50	0	MS706090	460-00-4	BR4FBZ	1-BROMO-
4.00AFCEE3	CASS	P0801616	SLOP-6317-AA-N	SLOP-6317-AA-N	LR	AIR	P080161601DU	TO15SIM	NONE	5/29/2008	8:50	5/30/2008	6/9/2008	14:21	0	MS706090	17060-07-	DCA12D4	1,2-DICHL
4.00AFCEE3	CASS	P0801616	SLOP-6317-AA-N	SLOP-6317-AA-N	LR	AIR	P080161601DU	TO15SIM	NONE	5/29/2008	8:50	5/30/2008	6/9/2008	14:21	0	MS706090	2037-26-5	BZMED8	TOLUENE-
4.00AFCEE3	CASS	P0801616	SLOP-6317-AA-N	SLOP-6317-AA-N	LR	AIR	P080161601DU	TO15SIM	NONE	5/29/2008	8:50	5/30/2008	6/9/2008	14:21	0	MS706090	460-00-4	BR4FBZ	1-BROMO-
4.00AFCEE3	CASS	P0801616	MS7060908LCS1	MS7060908	BS	AIR	P080609-LCS	TO15SIM	NONE				6/9/2008	12:24	0	MS706090	75-01-4	VC	VINYL CHL
4.00AFCEE3	CASS	P0801616	MS7060908LCS1	MS7060908	BS	AIR	P080609-LCS	TO15SIM	NONE				6/9/2008	12:24	0	MS706090	156-60-5	DCE12T	TRANS-1,2
4.00AFCEE3	CASS	P0801616	MS7060908LCS1	MS7060908	BS	AIR	P080609-LCS	TO15SIM	NONE				6/9/2008	12:24	0	MS706090	156-59-2	DCE12C	cis-1,2-DIC
4.00AFCEE3	CASS	P0801616	MS7060908LCS1	MS7060908	BS	AIR	P080609-LCS	TO15SIM	NONE				6/9/2008	12:24	0	MS706090	107-06-2	DCA12	1,2-DICHL
4.00AFCEE3	CASS	P0801616	MS7060908LCS1	MS7060908	BS	AIR	P080609-LCS	TO15SIM	NONE				6/9/2008	12:24	0	MS706090	79-01-6	TCE	TRICHLOR
4.00AFCEE3	CASS	P0801616	MS7060908LCS1	MS7060908	BS	AIR	P080609-LCS	TO15SIM	NONE				6/9/2008	12:24	0	MS706090	127-18-4	PCE	TETRACHI
4.00AFCEE3	CASS	P0801616	SLOP-6317-AA-N	SLOP-6317-AA-N	LR	AIR	P080161601DU	TO15SIM	NONE	5/29/2008	8:50	5/30/2008	6/9/2008	14:21	0	MS706090	75-01-4	VC	VINYL CHL
4.00AFCEE3	CASS	P0801616	SLOP-6317-AA-N	SLOP-6317-AA-N	LR	AIR	P080161601DU	TO15SIM	NONE	5/29/2008	8:50	5/30/2008	6/9/2008	14:21	0	MS706090	156-60-5	DCE12T	TRANS-1,2
4.00AFCEE3	CASS	P0801616	SLOP-6317-AA-N	SLOP-6317-AA-N	LR	AIR	P080161601DU	TO15SIM	NONE	5/29/2008	8:50	5/30/2008	6/9/2008	14:21	0	MS706090	156-59-2	DCE12C	cis-1,2-DIC
4.00AFCEE3	CASS	P0801616	SLOP-6317-AA-N	SLOP-6317-AA-N	LR	AIR	P080161601DU	TO15SIM	NONE	5/29/2008	8:50	5/30/2008	6/9/2008	14:21	0	MS706090	107-06-2	DCA12	1,2-DICHL
4.00AFCEE3	CASS	P0801616	SLOP-6317-AA-N	SLOP-6317-AA-N	LR	AIR	P080161601DU	TO15SIM	NONE	5/29/2008	8:50	5/30/2008	6/9/2008	14:21	0	MS706090	79-01-6	TCE	TRICHLOR
4.00AFCEE3	CASS	P0801616	SLOP-6317-AA-N	SLOP-6317-AA-N	LR	AIR	P080161601DU	TO15SIM	NONE	5/29/2008	8:50	5/30/2008	6/9/2008	14:21	0	MS706090	127-18-4	PCE	TETRACHI

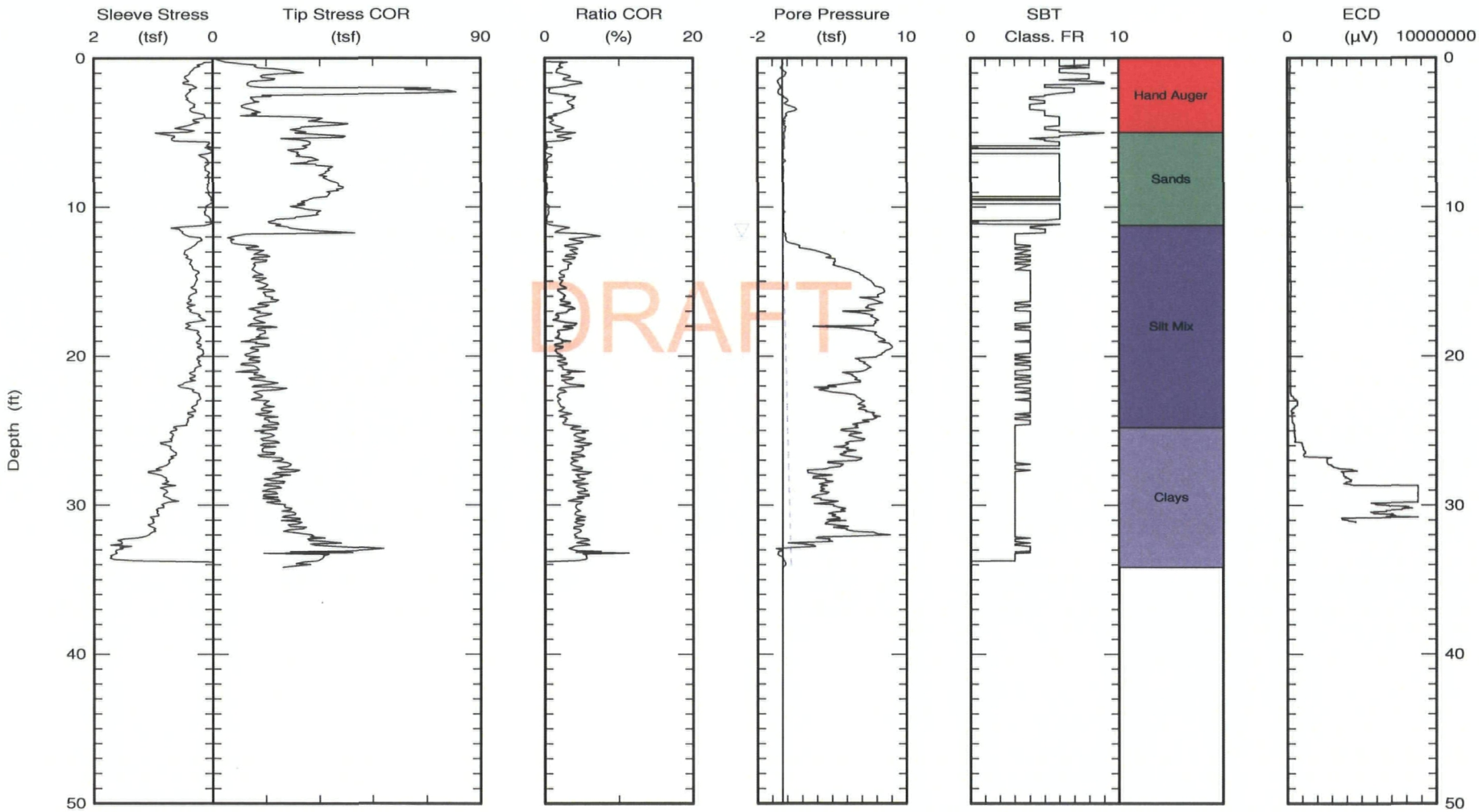
0.036	0	UG/M3	1.42	0.0037	0.036	U	N				X	U	0.0037	0.036	SLOP-631	NONE		MS706090
0.036	0	UG/M3	1.42	0.004	0.036	U	N				X	U	0.004	0.036	SLOP-631	NONE		MS706090
0.036	0	UG/M3	1.42	0.004	0.036	U	N				X	U	0.004	0.036	SLOP-631	NONE		MS706090
0.06	0	UG/M3	1.42	0.004	0.036	=	N				X	=	0.004	0.036	SLOP-631	NONE		MS706090
0.019	0	UG/M3	1.42	0.0041	0.014	=	N				X	=	0.0041	0.014	SLOP-631	NONE		MS706090
0.099	0	UG/M3	1.42	0.0038	0.036	=	N				X	=	0.0038	0.036	SLOP-631	NONE		MS706090
0.025	0	UG/M3	1	0.0026	0.025	U	N				X	U	0.0026	0.025		NONE		MS706090
0.025	0	UG/M3	1	0.0028	0.025	U	N				X	U	0.0028	0.025		NONE		MS706090
0.025	0	UG/M3	1	0.0028	0.025	U	N				X	U	0.0028	0.025		NONE		MS706090
0.025	0	UG/M3	1	0.0028	0.025	U	N				X	U	0.0028	0.025		NONE		MS706090
0.01	0	UG/M3	1	0.0029	0.01	U	N				X	U	0.0029	0.01		NONE		MS706090
0.025	0	UG/M3	1	0.0027	0.025	U	N				X	U	0.0027	0.025		NONE		MS706090
99	100	PERCENT	1			=	Y	99	70	130	X	=				NONE		MS706090
100	100	PERCENT	1			=	Y	100	70	130	X	=				NONE		MS706090
98	100	PERCENT	1			=	Y	98	70	130	X	=				NONE		MS706090
96	100	PERCENT	1			=	Y	96	70	130	X	=				NONE		MS706090
101	100	PERCENT	1			=	Y	101	70	130	X	=				NONE		MS706090
100	100	PERCENT	1			=	Y	100	70	130	X	=				NONE		MS706090
94	100	PERCENT	1.42			=	Y	94	70	130	X	=			SLOP-631	NONE		MS706090
101	100	PERCENT	1.42			=	Y	101	70	130	X	=			SLOP-631	NONE		MS706090
101	100	PERCENT	1.42			=	Y	101	70	130	X	=			SLOP-631	NONE		MS706090
94	100	PERCENT	1.42			=	Y	94	70	130	X	=			SLOP-631	NONE		MS706090
101	100	PERCENT	1.42			=	Y	101	70	130	X	=			SLOP-631	NONE		MS706090
100	100	PERCENT	1.42			=	Y	100	70	130	X	=			SLOP-631	NONE		MS706090
407	495	PG	1	2.6E-06	0.000025	=	N	82	64	125	X	=	2.6E-06	0.000025		NONE		MS706090
472	530	PG	1	2.8E-06	0.000025	=	N	89	67	111	X	=	2.8E-06	0.000025		NONE		MS706090
474	540	PG	1	2.8E-06	0.000025	=	N	88	62	121	X	=	2.8E-06	0.000025		NONE		MS706090
446	525	PG	1	2.8E-06	0.000025	=	N	85	62	120	X	=	2.8E-06	0.000025		NONE		MS706090
479	545	PG	1	2.9E-06	0.00001	=	N	88	67	116	X	=	2.9E-06	0.00001		NONE		MS706090
480	520	PG	1	2.7E-06	0.000025	=	N	92	56	133	X	=	2.7E-06	0.000025		NONE		MS706090
0.036	ND	UG/M3	1.42	0.0037	0.036	U	N				X	U	0.0037	0.036	SLOP-631	NONE		MS706090
0.036	ND	UG/M3	1.42	0.004	0.036	U	N				X	U	0.004	0.036	SLOP-631	NONE		MS706090
0.036	ND	UG/M3	1.42	0.004	0.036	U	N				X	U	0.004	0.036	SLOP-631	NONE		MS706090
0.0595	0.06	UG/M3	1.42	0.004	0.036	=	N				X	=	0.004	0.036	SLOP-631	NONE		MS706090
0.0171	0.019	UG/M3	1.42	0.0041	0.014	=	N				X	=	0.0041	0.014	SLOP-631	NONE		MS706090
0.101	0.099	UG/M3	1.42	0.0038	0.036	=	N				X	=	0.0038	0.036	SLOP-631	NONE		MS706090

4.00AFCEE3	CASS	P0801629	SLOP-6317-IA-NE	SLOP-6317-IA-NE	N	AIR	P0801629-001	TO15SIM	NONE	5/29/2008	8:52	5/30/2008	6/10/2008	14:20	0	MS706100	75-01-4	VC	VINYL CHL
4.00AFCEE3	CASS	P0801629	SLOP-6317-IA-NE	SLOP-6317-IA-NE	N	AIR	P0801629-001	TO15SIM	NONE	5/29/2008	8:52	5/30/2008	6/10/2008	14:20	0	MS706100	156-60-5	DCE12T	TRANS-1,2
4.00AFCEE3	CASS	P0801629	SLOP-6317-IA-NE	SLOP-6317-IA-NE	N	AIR	P0801629-001	TO15SIM	NONE	5/29/2008	8:52	5/30/2008	6/10/2008	14:20	0	MS706100	156-59-2	DCE12C	cis-1,2-DIC
4.00AFCEE3	CASS	P0801629	SLOP-6317-IA-NE	SLOP-6317-IA-NE	N	AIR	P0801629-001	TO15SIM	NONE	5/29/2008	8:52	5/30/2008	6/10/2008	14:20	0	MS706100	107-06-2	DCA12	1,2-DICHL(
4.00AFCEE3	CASS	P0801629	SLOP-6317-IA-NE	SLOP-6317-IA-NE	N	AIR	P0801629-001	TO15SIM	NONE	5/29/2008	8:52	5/30/2008	6/10/2008	14:20	0	MS706100	79-01-6	TCE	TRICHLOR
4.00AFCEE3	CASS	P0801629	SLOP-6317-IA-NE	SLOP-6317-IA-NE	N	AIR	P0801629-001	TO15SIM	NONE	5/29/2008	8:52	5/30/2008	6/10/2008	14:20	0	MS706100	127-18-4	PCE	TETRACHI
4.00AFCEE3	CASS	P0801629	SLOP-6317-IA-SW	SLOP-6317-IA-SW	N	AIR	P0801629-002	TO15SIM	NONE	5/29/2008	8:52	5/30/2008	6/10/2008	17:23	0	MS706100	75-01-4	VC	VINYL CHL
4.00AFCEE3	CASS	P0801629	SLOP-6317-IA-SW	SLOP-6317-IA-SW	N	AIR	P0801629-002	TO15SIM	NONE	5/29/2008	8:52	5/30/2008	6/10/2008	17:23	0	MS706100	156-60-5	DCE12T	TRANS-1,2
4.00AFCEE3	CASS	P0801629	SLOP-6317-IA-SW	SLOP-6317-IA-SW	N	AIR	P0801629-002	TO15SIM	NONE	5/29/2008	8:52	5/30/2008	6/10/2008	17:23	0	MS706100	156-59-2	DCE12C	cis-1,2-DIC
4.00AFCEE3	CASS	P0801629	SLOP-6317-IA-SW	SLOP-6317-IA-SW	N	AIR	P0801629-002	TO15SIM	NONE	5/29/2008	8:52	5/30/2008	6/10/2008	17:23	0	MS706100	107-06-2	DCA12	1,2-DICHL(
4.00AFCEE3	CASS	P0801629	SLOP-6317-IA-SW	SLOP-6317-IA-SW	N	AIR	P0801629-002	TO15SIM	NONE	5/29/2008	8:52	5/30/2008	6/10/2008	17:23	0	MS706100	79-01-6	TCE	TRICHLOR
4.00AFCEE3	CASS	P0801629	SLOP-6317-IA-SW	SLOP-6317-IA-SW	N	AIR	P0801629-002	TO15SIM	NONE	5/29/2008	8:52	5/30/2008	6/10/2008	17:23	0	MS706100	127-18-4	PCE	TETRACHI
4.00AFCEE3	CASS	P0801629	SLOP-6317-IA-SW-FD	SLOP-6317-IA-SW-FD	N	AIR	P0801629-003	TO15SIM	NONE	5/29/2008	8:52	5/30/2008	6/10/2008	16:13	0	MS706100	75-01-4	VC	VINYL CHL
4.00AFCEE3	CASS	P0801629	SLOP-6317-IA-SW-FD	SLOP-6317-IA-SW-FD	N	AIR	P0801629-003	TO15SIM	NONE	5/29/2008	8:52	5/30/2008	6/10/2008	16:13	0	MS706100	156-60-5	DCE12T	TRANS-1,2
4.00AFCEE3	CASS	P0801629	SLOP-6317-IA-SW-FD	SLOP-6317-IA-SW-FD	N	AIR	P0801629-003	TO15SIM	NONE	5/29/2008	8:52	5/30/2008	6/10/2008	16:13	0	MS706100	156-59-2	DCE12C	cis-1,2-DIC
4.00AFCEE3	CASS	P0801629	SLOP-6317-IA-SW-FD	SLOP-6317-IA-SW-FD	N	AIR	P0801629-003	TO15SIM	NONE	5/29/2008	8:52	5/30/2008	6/10/2008	16:13	0	MS706100	107-06-2	DCA12	1,2-DICHL(
4.00AFCEE3	CASS	P0801629	SLOP-6317-IA-SW-FD	SLOP-6317-IA-SW-FD	N	AIR	P0801629-003	TO15SIM	NONE	5/29/2008	8:52	5/30/2008	6/10/2008	16:13	0	MS706100	79-01-6	TCE	TRICHLOR
4.00AFCEE3	CASS	P0801629	SLOP-6317-IA-SW-FD	SLOP-6317-IA-SW-FD	N	AIR	P0801629-003	TO15SIM	NONE	5/29/2008	8:52	5/30/2008	6/10/2008	16:13	0	MS706100	127-18-4	PCE	TETRACHI
4.00AFCEE3	CASS	P0801629	TB-052908A	TB-052908A	N	AIR	P0801629-004	TO15SIM	NONE	5/29/2008	10:00	5/30/2008	6/10/2008	19:22	0	MS706100	75-01-4	VC	VINYL CHL
4.00AFCEE3	CASS	P0801629	TB-052908A	TB-052908A	N	AIR	P0801629-004	TO15SIM	NONE	5/29/2008	10:00	5/30/2008	6/10/2008	19:22	0	MS706100	156-60-5	DCE12T	TRANS-1,2
4.00AFCEE3	CASS	P0801629	TB-052908A	TB-052908A	N	AIR	P0801629-004	TO15SIM	NONE	5/29/2008	10:00	5/30/2008	6/10/2008	19:22	0	MS706100	156-59-2	DCE12C	cis-1,2-DIC
4.00AFCEE3	CASS	P0801629	TB-052908A	TB-052908A	N	AIR	P0801629-004	TO15SIM	NONE	5/29/2008	10:00	5/30/2008	6/10/2008	19:22	0	MS706100	107-06-2	DCA12	1,2-DICHL(
4.00AFCEE3	CASS	P0801629	TB-052908A	TB-052908A	N	AIR	P0801629-004	TO15SIM	NONE	5/29/2008	10:00	5/30/2008	6/10/2008	19:22	0	MS706100	79-01-6	TCE	TRICHLOR
4.00AFCEE3	CASS	P0801629	TB-052908A	TB-052908A	N	AIR	P0801629-004	TO15SIM	NONE	5/29/2008	10:00	5/30/2008	6/10/2008	19:22	0	MS706100	127-18-4	PCE	TETRACHI
4.00AFCEE3	CASS	P0801629	MS7061008MB1	MS7061008	LB	AIR	P080610-MB	TO15SIM	NONE				6/10/2008	11:08	0	MS706100	75-01-4	VC	VINYL CHL
4.00AFCEE3	CASS	P0801629	MS7061008MB1	MS7061008	LB	AIR	P080610-MB	TO15SIM	NONE				6/10/2008	11:08	0	MS706100	156-60-5	DCE12T	TRANS-1,2
4.00AFCEE3	CASS	P0801629	MS7061008MB1	MS7061008	LB	AIR	P080610-MB	TO15SIM	NONE				6/10/2008	11:08	0	MS706100	156-59-2	DCE12C	cis-1,2-DIC
4.00AFCEE3	CASS	P0801629	MS7061008MB1	MS7061008	LB	AIR	P080610-MB	TO15SIM	NONE				6/10/2008	11:08	0	MS706100	107-06-2	DCA12	1,2-DICHL(
4.00AFCEE3	CASS	P0801629	MS7061008MB1	MS7061008	LB	AIR	P080610-MB	TO15SIM	NONE				6/10/2008	11:08	0	MS706100	79-01-6	TCE	TRICHLOR
4.00AFCEE3	CASS	P0801629	MS7061008MB1	MS7061008	LB	AIR	P080610-MB	TO15SIM	NONE				6/10/2008	11:08	0	MS706100	127-18-4	PCE	TETRACHI
4.00AFCEE3	CASS	P0801629	MS7061008MB1	MS7061008	LB	AIR	P080610-MB	TO15SIM	NONE				6/10/2008	11:08	0	MS706100	17060-07-	DCA12D4	1,2-DICHL(
4.00AFCEE3	CASS	P0801629	MS7061008MB1	MS7061008	LB	AIR	P080610-MB	TO15SIM	NONE				6/10/2008	11:08	0	MS706100	2037-26-5	BZMED8	TOLUENE-
4.00AFCEE3	CASS	P0801629	MS7061008MB1	MS7061008	LB	AIR	P080610-MB	TO15SIM	NONE				6/10/2008	11:08	0	MS706100	460-00-4	BR4FBZ	1-BROMO-
4.00AFCEE3	CASS	P0801629	MS7061008LCS1	MS7061008	BS	AIR	P080610-LCS	TO15SIM	NONE				6/10/2008	11:48	0	MS706100	17060-07-	DCA12D4	1,2-DICHL(
4.00AFCEE3	CASS	P0801629	MS7061008LCS1	MS7061008	BS	AIR	P080610-LCS	TO15SIM	NONE				6/10/2008	11:48	0	MS706100	2037-26-5	BZMED8	TOLUENE-
4.00AFCEE3	CASS	P0801629	MS7061008LCS1	MS7061008	BS	AIR	P080610-LCS	TO15SIM	NONE				6/10/2008	11:48	0	MS706100	460-00-4	BR4FBZ	1-BROMO-
4.00AFCEE3	CASS	P0801629	SLOP-6317-IA-NE	SLOP-6317-IA-NE	N	AIR	P0801629-001	TO15SIM	NONE	5/29/2008	8:52	5/30/2008	6/10/2008	14:20	0	MS706100	17060-07-	DCA12D4	1,2-DICHL(
4.00AFCEE3	CASS	P0801629	SLOP-6317-IA-NE	SLOP-6317-IA-NE	N	AIR	P0801629-001	TO15SIM	NONE	5/29/2008	8:52	5/30/2008	6/10/2008	14:20	0	MS706100	2037-26-5	BZMED8	TOLUENE-
4.00AFCEE3	CASS	P0801629	SLOP-6317-IA-NE	SLOP-6317-IA-NE	N	AIR	P0801629-001	TO15SIM	NONE	5/29/2008	8:52	5/30/2008	6/10/2008	14:20	0	MS706100	460-00-4	BR4FBZ	1-BROMO-
4.00AFCEE3	CASS	P0801629	SLOP-6317-IA-NE	SLOP-6317-IA-NE	LR	AIR	P080162901DU	TO15SIM	NONE	5/29/2008	8:52	5/30/2008	6/10/2008	15:05	0	MS706100	17060-07-	DCA12D4	1,2-DICHL(
4.00AFCEE3	CASS	P0801629	SLOP-6317-IA-NE	SLOP-6317-IA-NE	LR	AIR	P080162901DU	TO15SIM	NONE	5/29/2008	8:52	5/30/2008	6/10/2008	15:05	0	MS706100	2037-26-5	BZMED8	TOLUENE-
4.00AFCEE3	CASS	P0801629	SLOP-6317-IA-NE	SLOP-6317-IA-NE	LR	AIR	P080162901DU	TO15SIM	NONE	5/29/2008	8:52	5/30/2008	6/10/2008	15:05	0	MS706100	460-00-4	BR4FBZ	1-BROMO-
4.00AFCEE3	CASS	P0801629	SLOP-6317-IA-SW	SLOP-6317-IA-SW	N	AIR	P0801629-002	TO15SIM	NONE	5/29/2008	8:52	5/30/2008	6/10/2008	17:23	0	MS706100	17060-07-	DCA12D4	1,2-DICHL(
4.00AFCEE3	CASS	P0801629	SLOP-6317-IA-SW	SLOP-6317-IA-SW	N	AIR	P0801629-002	TO15SIM	NONE	5/29/2008	8:52	5/30/2008	6/10/2008	17:23	0	MS706100	2037-26-5	BZMED8	TOLUENE-
4.00AFCEE3	CASS	P0801629	SLOP-6317-IA-SW	SLOP-6317-IA-SW	N	AIR	P0801629-002	TO15SIM	NONE	5/29/2008	8:52	5/30/2008	6/10/2008	17:23	0	MS706100	460-00-4	BR4FBZ	1-BROMO-
4.00AFCEE3	CASS	P0801629	SLOP-6317-IA-SW-FD	SLOP-6317-IA-SW-FD	N	AIR	P0801629-003	TO15SIM	NONE	5/29/2008	8:52	5/30/2008	6/10/2008	16:13	0	MS706100	17060-07-	DCA12D4	1,2-DICHL(
4.00AFCEE3	CASS	P0801629	SLOP-6317-IA-SW-FD	SLOP-6317-IA-SW-FD	N	AIR	P0801629-003	TO15SIM	NONE	5/29/2008	8:52	5/30/2008	6/10/2008	16:13	0	MS706100	2037-26-5	BZMED8	TOLUENE-
4.00AFCEE3	CASS	P0801629	SLOP-6317-IA-SW-FD	SLOP-6317-IA-SW-FD	N	AIR	P0801629-003	TO15SIM	NONE	5/29/2008	8:52	5/30/2008	6/10/2008	16:13	0	MS706100	460-00-4	BR4FBZ	1-BROMO-
4.00AFCEE3	CASS	P0801629	TB-052908A	TB-052908A	N	AIR	P0801629-004	TO15SIM	NONE	5/29/2008	10:00	5/30/2008	6/10/2008	19:22	0	MS706100	17060-07-	DCA12D4	1,2-DICHL(
4.00AFCEE3	CASS	P0801629	TB-052908A	TB-052908A	N	AIR	P0801629-004	TO15SIM	NONE	5/29/2008	10:00	5/30/2008	6/10/2008	19:22	0	MS706100	2037-26-5	BZMED8	TOLUENE-
4.00AFCEE3	CASS	P0801629	TB-052908A	TB-052908A	N	AIR	P0801629-004	TO15SIM	NONE	5/29/2008	10:00	5/30/2008	6/10/2008	19:22	0	MS706100	460-00-4	BR4FBZ	1-BROMO-
4.00AFCEE3	CASS	P0801629	MS7061008LCS1	MS7061008	BS	AIR	P080610-LCS	TO15SIM	NONE				6/10/2008	11:48	0	MS706100	75-01-4	VC	VINYL CHL
4.00AFCEE3	CASS	P0801629	MS7061008LCS1	MS7061008	BS	AIR	P080610-LCS	TO15SIM	NONE				6/10/2008	11:48	0	MS706100	156-60-5	DCE12T	TRANS-1,2
4.00AFCEE3	CASS	P0801629	MS7061008LCS1	MS7061008	BS	AIR	P080610-LCS	TO15SIM	NONE				6/10/2008	11:48	0	MS706100	156-59-2	DCE12C	cis-1,2-DIC
4.00AFCEE3	CASS	P0801629	MS7061008LCS1	MS7061008	BS	AIR	P080610-LCS	TO15SIM	NONE				6/10/2008	11:48	0	MS706100	107-06-2	DCA12	1,2-DICHL(
4.00AFCEE3	CASS	P0801629	MS7061008LCS1	MS7061008	BS	AIR	P080610-LCS	TO15SIM	NONE				6/10/2008	11:48	0	MS706100	79-01-6	TCE	TRICHLOR
4.00AFCEE3	CASS	P0801629	MS7061008LCS1	MS7061008	BS	AIR	P080610-LCS	TO15SIM	NONE				6/10/2008	11:48	0	MS706100	127-18-4	PCE	TETRACHI
4.00AFCEE3	CASS	P0801629	SLOP-6317-IA-NE	SLOP-6317-IA-NE	LR	AIR	P080162901DU	TO15SIM	NONE	5/29/2008	8:52	5/30/2008	6/10/2008	15:05	0	MS706100	75-01-4	VC	VINYL CHL
4.00AFCEE3	CASS	P0801629	SLOP-6317-IA-NE	SLOP-6317-IA-NE	LR	AIR	P080162901DU	TO15SIM	NONE	5/29/2008	8:52	5/30/2008	6/10/2008	15:05	0	MS706100	156-60-5	DCE12T	TRANS-1,2
4.00AFCEE3	CASS	P0801629	SLOP-6317-IA-NE	SLOP-6317-IA-NE	LR	AIR	P080162901DU	TO15SIM	NONE	5/29/2008	8:52	5/30/2008	6/10/2008	15:05	0	MS706100	156-59-2	DCE12C	cis-1,2-DIC
4.00AFCEE3	CASS	P0801629	SLOP-6317-IA-NE	SLOP-6317-IA-NE	LR	AIR	P080162901DU	TO15SIM	NONE	5/29/2008	8:52	5/30/2008	6/10/2008	15:05	0	MS706100	107-06-2	DCA12	1,2-DICHL(
4.00AFCEE3	CASS	P0801629	SLOP-6317-IA-NE	SLOP-6317-IA-NE	LR	AIR	P080162901DU	TO15SIM	NONE	5/29/2008	8:52	5/30/2008	6/10/2008	15:05	0	MS706100	79-01-6	TCE	TRICHLOR
4.00AFCEE3	CASS	P0801629	SLOP-6317-IA-NE	SLOP-6317-IA-NE	LR	AIR	P080162901DU	TO15SIM	NONE	5/29/2008	8:52	5/30/2008	6/10/2008	15:05	0	MS706100	127-18-4	PCE	TETRACHI

0.043	0	UG/M3	1.7	0.0044	0.043	U	N				X	U	0.0044	0.043	SLOP-631	NONE			MS7061008
0.043	0	UG/M3	1.7	0.0048	0.043	U	N				X	U	0.0048	0.043	SLOP-631	NONE			MS7061008
0.058	0	UG/M3	1.7	0.0048	0.043	=	N				X	=	0.0048	0.043	SLOP-631	NONE			MS7061008
0.062	0	UG/M3	1.7	0.0048	0.043	=	N				X	=	0.0048	0.043	SLOP-631	NONE			MS7061008
0.16	0	UG/M3	1.7	0.0049	0.017	=	N				X	=	0.0049	0.017	SLOP-631	NONE			MS7061008
0.12	0	UG/M3	1.7	0.0046	0.043	=	N				X	=	0.0046	0.043	SLOP-631	NONE			MS7061008
0.036	0	UG/M3	1.44	0.0037	0.036	U	N				X	U	0.0037	0.036	SLOP-631	NONE			MS7061008
0.036	0	UG/M3	1.44	0.004	0.036	U	N				X	U	0.004	0.036	SLOP-631	NONE			MS7061008
0.044	0	UG/M3	1.44	0.004	0.036	=	N				X	=	0.004	0.036	SLOP-631	NONE			MS7061008
0.063	0	UG/M3	1.44	0.004	0.036	=	N				X	=	0.004	0.036	SLOP-631	NONE			MS7061008
0.13	0	UG/M3	1.44	0.0042	0.014	=	N				X	=	0.0042	0.014	SLOP-631	NONE			MS7061008
0.1	0	UG/M3	1.44	0.0039	0.036	=	N				X	=	0.0039	0.036	SLOP-631	NONE			MS7061008
0.043	0	UG/M3	1.72	0.0045	0.043	U	N				X	U	0.0045	0.043	SLOP-631	NONE			MS7061008
0.043	0	UG/M3	1.72	0.0048	0.043	U	N				X	U	0.0048	0.043	SLOP-631	NONE			MS7061008
0.046	0	UG/M3	1.72	0.0048	0.043	=	N				X	=	0.0048	0.043	SLOP-631	NONE			MS7061008
0.058	0	UG/M3	1.72	0.0048	0.043	=	N				X	=	0.0048	0.043	SLOP-631	NONE			MS7061008
0.14	0	UG/M3	1.72	0.005	0.017	=	N				X	=	0.005	0.017	SLOP-631	NONE			MS7061008
0.11	0	UG/M3	1.72	0.0046	0.043	=	N				X	=	0.0046	0.043	SLOP-631	NONE			MS7061008
0.025	0	UG/M3	1	0.0026	0.025	U	N				X	U	0.0026	0.025	TB-05290	NONE			MS7061008
0.025	0	UG/M3	1	0.0028	0.025	U	N				X	U	0.0028	0.025	TB-05290	NONE			MS7061008
0.025	0	UG/M3	1	0.0028	0.025	U	N				X	U	0.0028	0.025	TB-05290	NONE			MS7061008
0.003	0	UG/M3	1	0.0028	0.025	J	N				X	J	0.0028	0.025	TB-05290	NONE			MS7061008
0.0031	0	UG/M3	1	0.0029	0.01	J	N				X	J	0.0029	0.01	TB-05290	NONE			MS7061008
0.025	0	UG/M3	1	0.0027	0.025	U	N				X	U	0.0027	0.025	TB-05290	NONE			MS7061008
0.025	0	UG/M3	1	0.0026	0.025	U	N				X	U	0.0026	0.025		NONE			MS7061008
0.025	0	UG/M3	1	0.0028	0.025	U	N				X	U	0.0028	0.025		NONE			MS7061008
0.025	0	UG/M3	1	0.0028	0.025	U	N				X	U	0.0028	0.025		NONE			MS7061008
0.025	0	UG/M3	1	0.0028	0.025	U	N				X	U	0.0028	0.025		NONE			MS7061008
0.01	0	UG/M3	1	0.0029	0.01	U	N				X	U	0.0029	0.01		NONE			MS7061008
0.025	0	UG/M3	1	0.0027	0.025	U	N				X	U	0.0027	0.025		NONE			MS7061008
98	100	PERCENT	1			=	Y	98	70	130	X	=				NONE			MS7061008
100	100	PERCENT	1			=	Y	100	70	130	X	=				NONE			MS7061008
100	100	PERCENT	1			=	Y	100	70	130	X	=				NONE			MS7061008
100	100	PERCENT	1			=	Y	100	70	130	X	=				NONE			MS7061008
102	100	PERCENT	1			=	Y	102	70	130	X	=				NONE			MS7061008
100	100	PERCENT	1			=	Y	100	70	130	X	=				NONE			MS7061008
98	100	PERCENT	1.7			=	Y	98	70	130	X	=			SLOP-631	NONE			MS7061008
99	100	PERCENT	1.7			=	Y	99	70	130	X	=			SLOP-631	NONE			MS7061008
99	100	PERCENT	1.7			=	Y	99	70	130	X	=			SLOP-631	NONE			MS7061008
96	100	PERCENT	1.7			=	Y	96	70	130	X	=			SLOP-631	NONE			MS7061008
100	100	PERCENT	1.7			=	Y	100	70	130	X	=			SLOP-631	NONE			MS7061008
100	100	PERCENT	1.7			=	Y	100	70	130	X	=			SLOP-631	NONE			MS7061008
98	100	PERCENT	1.44			=	Y	98	70	130	X	=			SLOP-631	NONE			MS7061008
99	100	PERCENT	1.44			=	Y	99	70	130	X	=			SLOP-631	NONE			MS7061008
101	100	PERCENT	1.44			=	Y	101	70	130	X	=			SLOP-631	NONE			MS7061008
98	100	PERCENT	1.72			=	Y	98	70	130	X	=			SLOP-631	NONE			MS7061008
100	100	PERCENT	1.72			=	Y	100	70	130	X	=			SLOP-631	NONE			MS7061008
99	100	PERCENT	1.72			=	Y	99	70	130	X	=			SLOP-631	NONE			MS7061008
96	100	PERCENT	45.5			=	Y	96	70	130	X	=			TB-05290	NONE			MS7061008
100	100	PERCENT	45.5			=	Y	100	70	130	X	=			TB-05290	NONE			MS7061008
100	100	PERCENT	45.5			=	Y	100	70	130	X	=			TB-05290	NONE			MS7061008
412	495	PG	1	2.6E-06	0.000025	=	N	83	64	125	X	=	2.6E-06	0.000025		NONE			MS7061008
478	530	PG	1	2.8E-06	0.000025	=	N	90	67	111	X	=	2.8E-06	0.000025		NONE			MS7061008
488	540	PG	1	2.8E-06	0.000025	=	N	90	62	121	X	=	2.8E-06	0.000025		NONE			MS7061008
462	525	PG	1	2.8E-06	0.000025	=	N	88	62	120	X	=	2.8E-06	0.000025		NONE			MS7061008
478	545	PG	1	2.9E-06	0.00001	=	N	88	67	116	X	=	2.9E-06	0.00001		NONE			MS7061008
478	520	PG	1	2.7E-06	0.000025	=	N	92	56	133	X	=	2.7E-06	0.000025		NONE			MS7061008
0.043	ND	UG/M3	1.7	0.0044	0.043	U	N				X	U	0.0044	0.043	SLOP-631	NONE			MS7061008
0.043	ND	UG/M3	1.7	0.0048	0.043	U	N				X	U	0.0048	0.043	SLOP-631	NONE			MS7061008
0.0564	0.058	UG/M3	1.7	0.0048	0.043	=	N				X	=	0.0048	0.043	SLOP-631	NONE			MS7061008
0.06	0.062	UG/M3	1.7	0.0048	0.043	=	N				X	=	0.0048	0.043	SLOP-631	NONE			MS7061008
0.163	0.16	UG/M3	1.7	0.0049	0.017	=	N				X	=	0.0049	0.017	SLOP-631	NONE			MS7061008
0.119	0.12	UG/M3	1.7	0.0046	0.043	=	N				X	=	0.0046	0.043	SLOP-631	NONE			MS7061008

MIP/CPT Logs

DIRECT SENSING PATC FLORIDA 407-426-7885 CALIFORNIA 510-237-4575 ... there is a better way...	Direct Sensing Division. 2300 Silver Star Rd,Orlando FL,32804 407-427-7885 clayton.bartholomew@patc-usa.com www.precisiontecha.com	Northing: Easting: Elevation:	Date: 14/May/2008 Test ID: MIP-01 Project: SLOP
		Client: CH2M Job Site: SLOP	



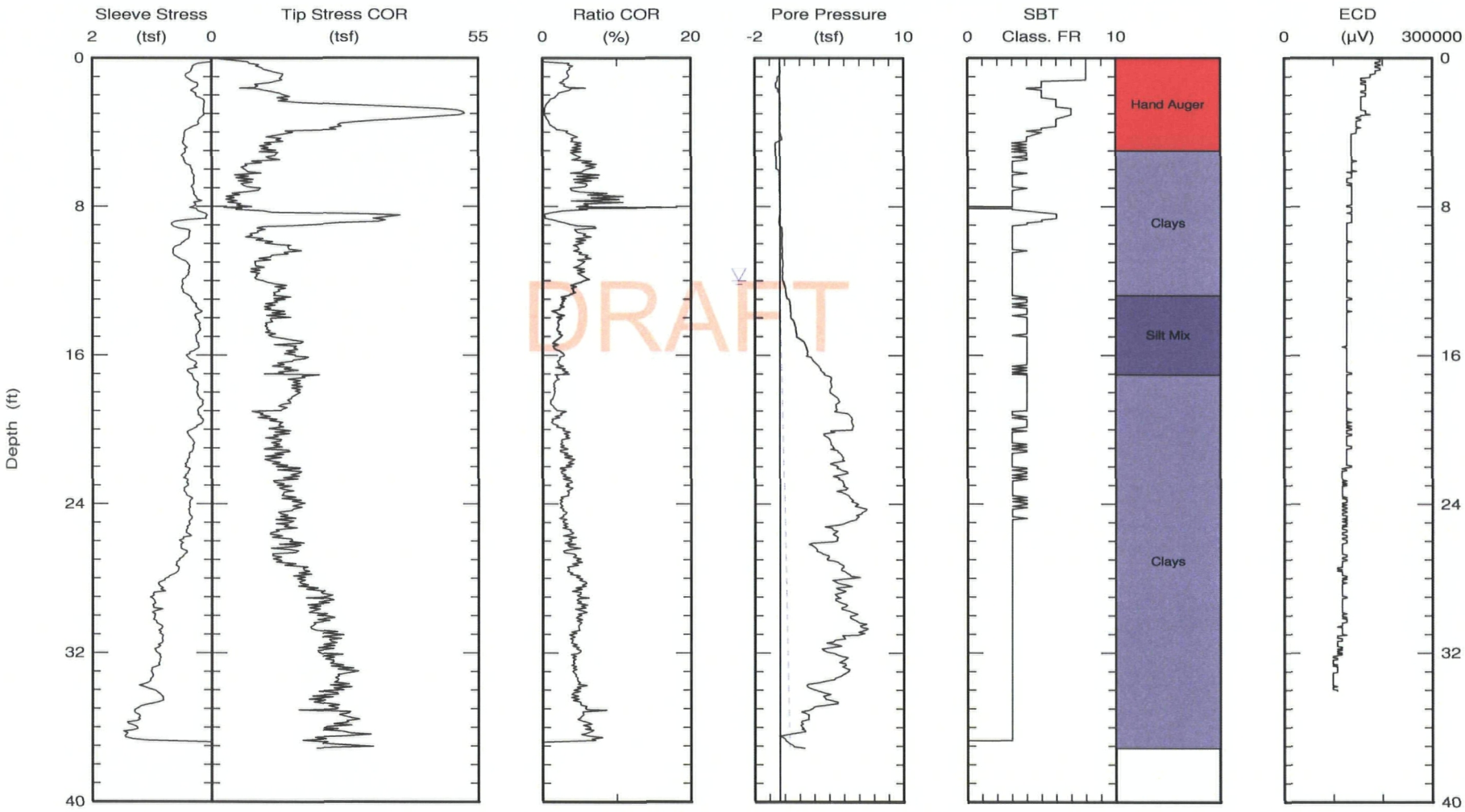
Maximum depth: 34.17 (ft)

Class FR: Friction Ratio Classification (Ref: Robertson 1990)

Estimated Phreatic Surface

Test ID: MIP-01
File: MIP-01~1.CSV

DIRECT SENSING PATC FLORIDA 407-426-7885 CALIFORNIA 510-237-4575 ... there is a better way...	Direct Sensing Division. 2300 Silver Star Rd,Orlando FL,3280 407-427-7885 clayton.bartholomew@patc-usa.com www.precisiontecha.com	Northing: Easting: Elevation: Client: CH2M Job Site: SLOP	Date: 14/May/2008 Test ID: MIP-02 Project: SLOP



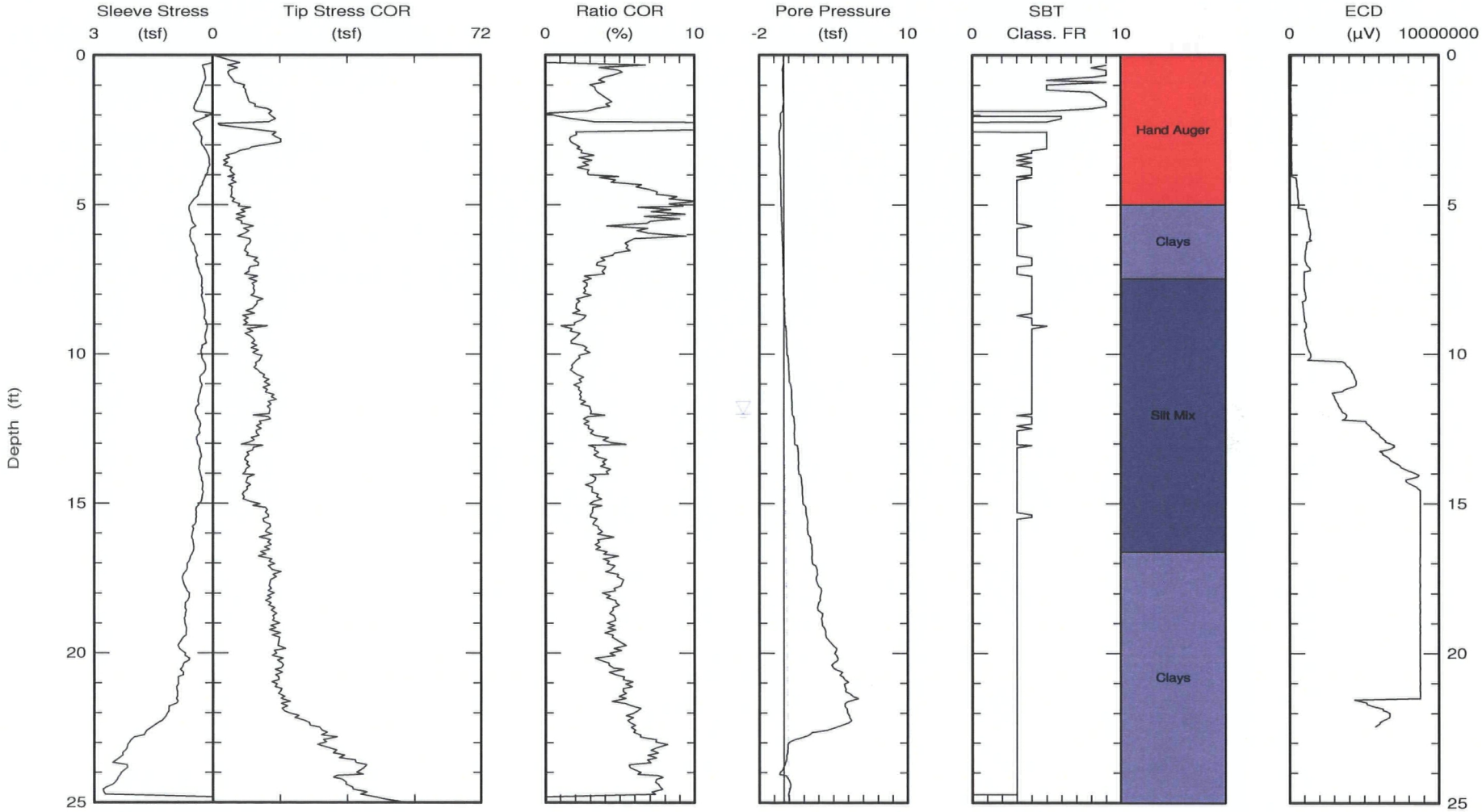
Maximum depth: 37.11 (ft)

Class FR: Friction Ratio Classification (Ref: Robertson 1990)

Estimated Phreatic Surface

Test ID: MIP-02
File: MIP-02~1.CSV

DIRECT SENSING PATC FLORIDA 407-426-7885 CALIFORNIA 510-237-4575 ... there is a better way...	Direct Sensing Division. 2300 Silver Star Rd,Orlando FL,32804 407-427-7885 clayton.bartholomew@patc-usa.com www.precisiontecha.com	Northing: Easting: Elevation:	Date: 14/May/2008 Test ID: MIP-03 Project: SLOP
		Client: CH2M Job Site: SLOP	

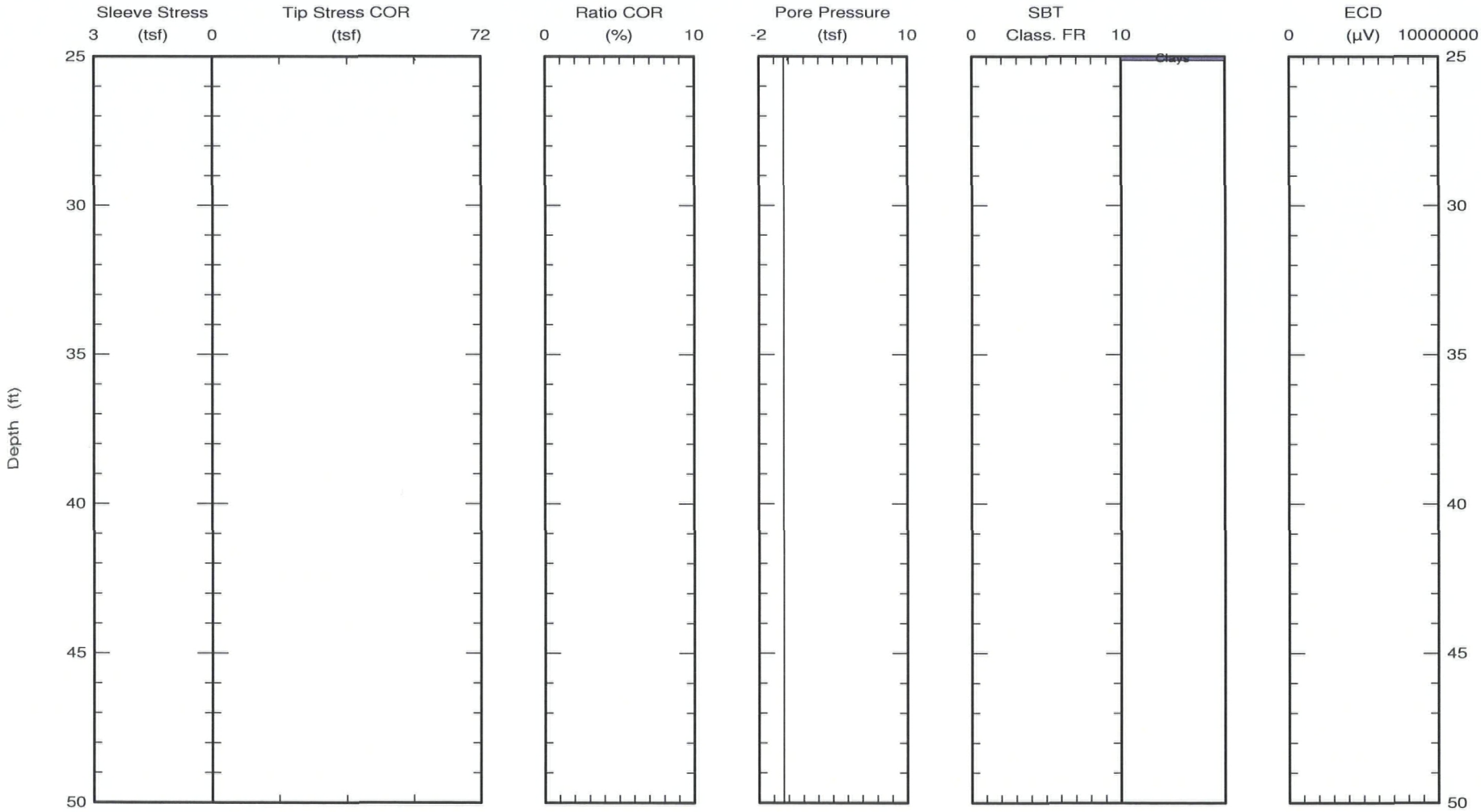


Maximum depth: 25.13 (ft)

Class FR: Friction Ratio Classification (Ref: Robertson 1990)

Estimated Phreatic Surface

DIRECT SENSING PATC FLORIDA 407-426-7885 CALIFORNIA 510-237-4575 ... there is a better way...	Direct Sensing Division. 2300 Silver Star Rd,Orlando FL,32804 407-427-7885 clayton.bartholomew@patc-usa.com www.precisiontecha.com	Northing: Easting: Elevation: Client: CH2M Job Site: SLOP	Date: 14/May/2008 Test ID: MIP-03 Project: SLOP

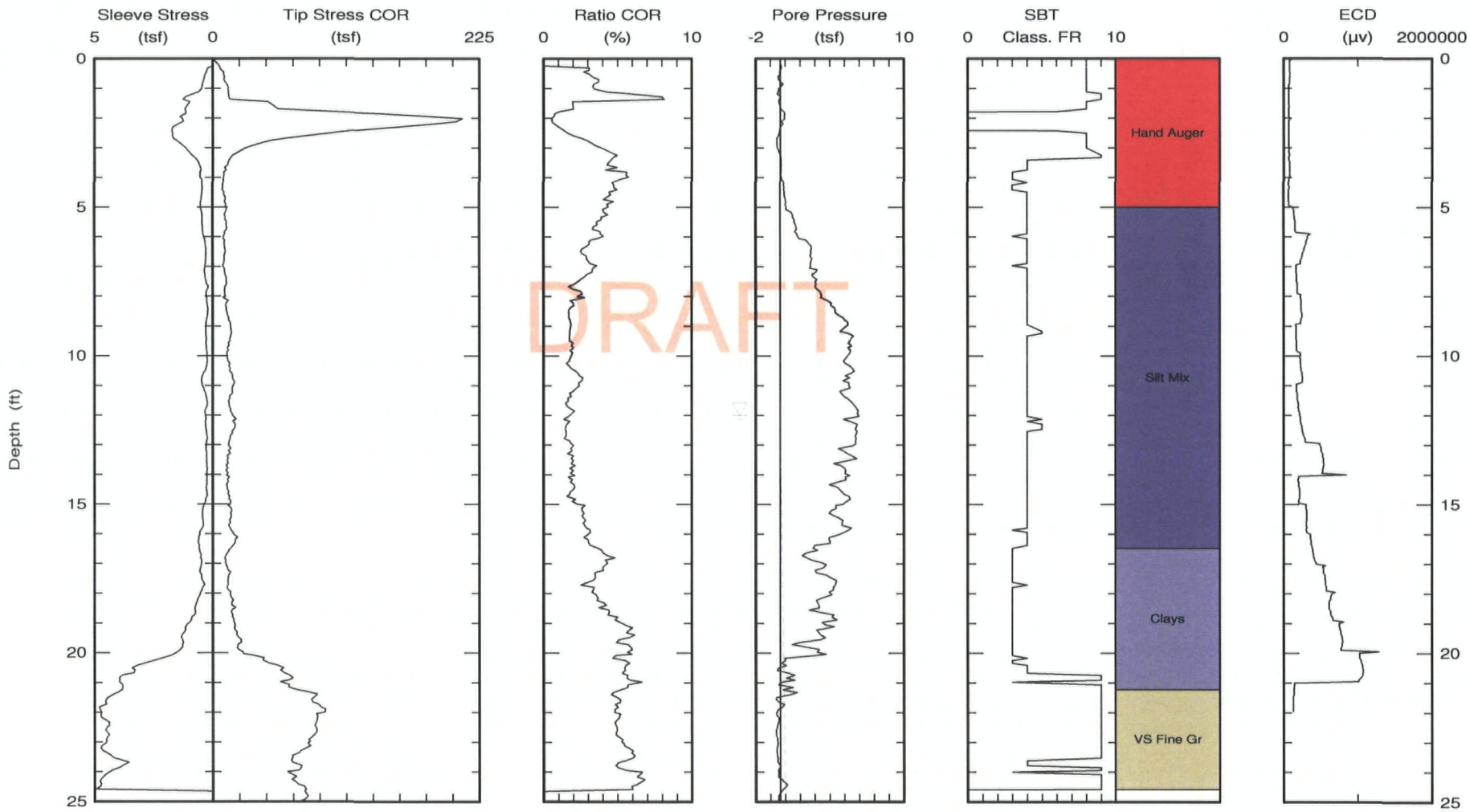


Maximum depth: 25.13 (ft)

Class FR: Friction Ratio Classification (Ref: Robertson 1990)

Test ID: MIP-03
File: MIP-03~1.CSV

DIRECT SENSING PATC FLORIDA 407-426-7885 CALIFORNIA 510-237-4575 ... there is a better way...	Direct Sensing Division. 2300 Silver Star Rd,Orlando FL,32804 407-427-7885 clayton.bartholomew@patc-usa.com www.precisiontecha.com	Northing: Easting: Elevation:	Date: 15/May/2008 Test ID: MIP-04 Project: SLOP
		Client: CH2M Job Site: SLOP	



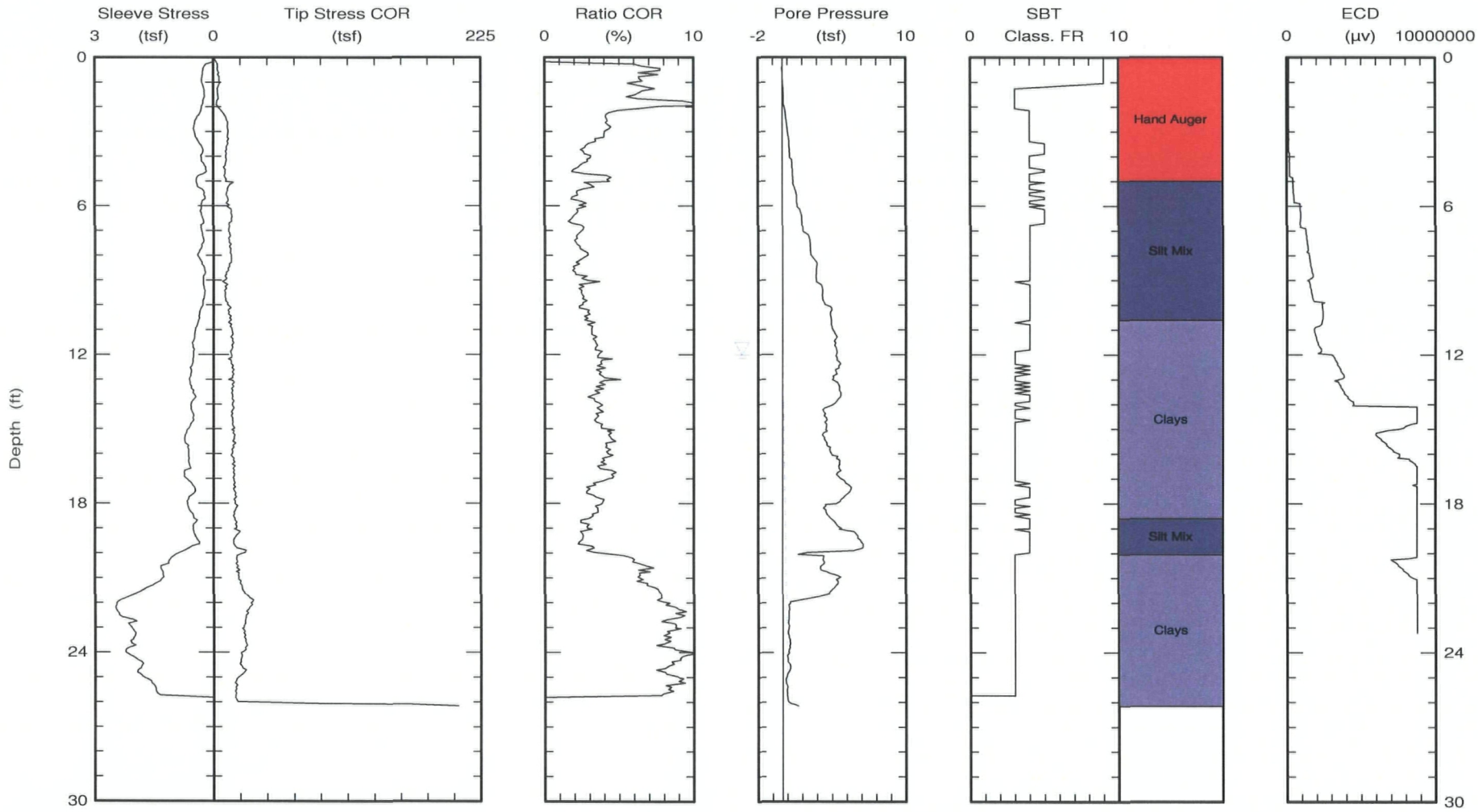
Maximum depth: 24.99 (ft)

Class FR: Friction Ratio Classification (Ref: Robertson 1990)

Estimated Phreatic Surface

Test ID: MIP-04
File: MIP-04~1.CSV

DIRECT SENSING PATC FLORIDA 407-426-7885 CALIFORNIA 510-237-4575 ...there is a better way...	Direct Sensing Division. 2300 Silver Star Rd,Orlando FL,32804 407-427-7885 clayton.bartholomew@patc-usa.com www.precisiontecha.com	Northing: Easting: Elevation:	Date: 15/May/2008 Test ID: MIP-05 Project: SLOP
		Client: CH2M Job Site: SLOP	

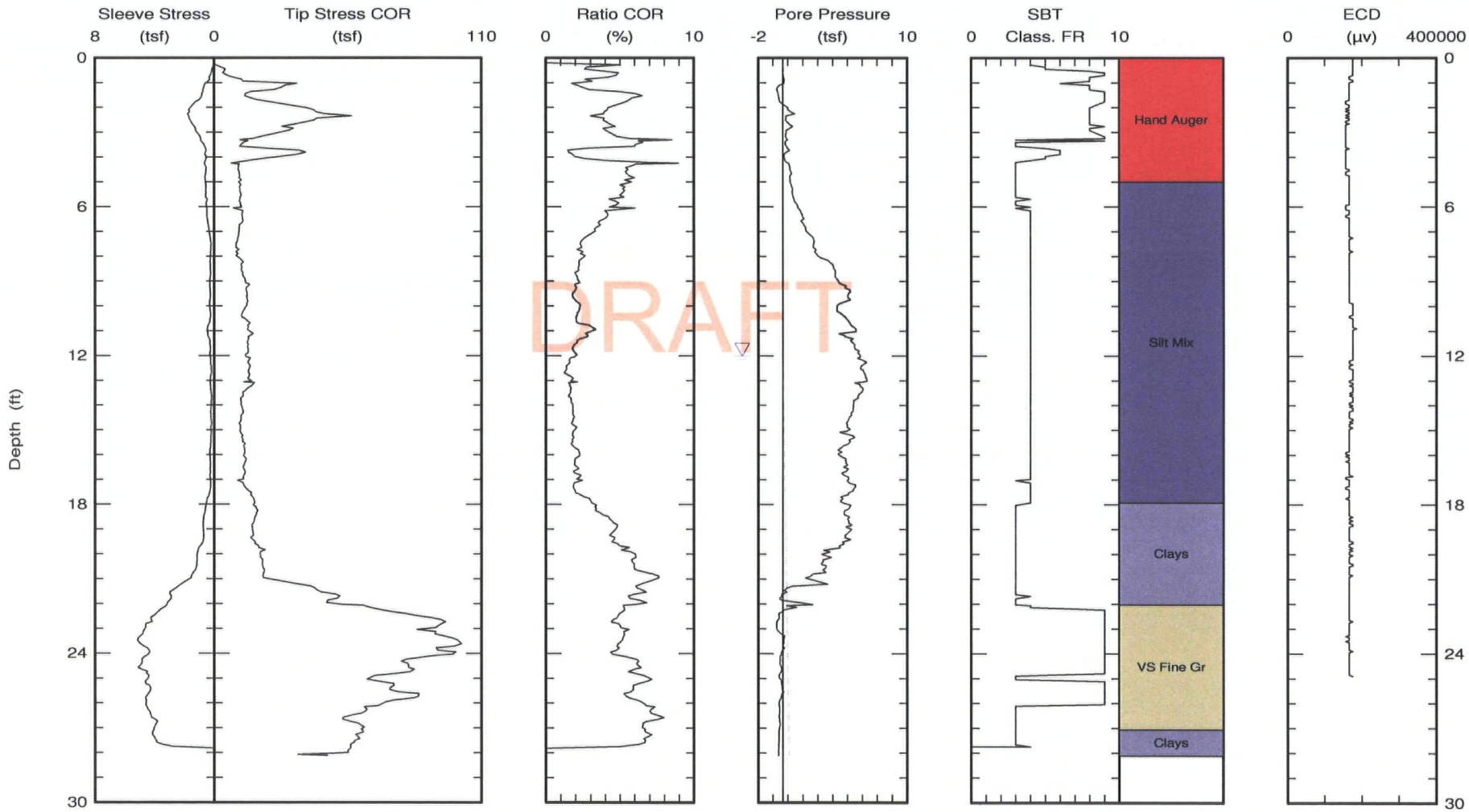


Maximum depth: 26.16 (ft)

Class FR: Friction Ratio Classification (Ref: Robertson 1990)

Estimated Phreatic Surface

DIRECT SENSING PATC FLORIDA 407-426-7885 CALIFORNIA 510-237-4575 ... there is a better way...	Direct Sensing Division. 2300 Silver Star Rd,Orlando FL,32804 407-427-7885 clayton.bartholomew@patc-usa.com www.precisiontecha.com	Northing: Easting: Elevation:	Date: 16/May/2008 Test ID: MIP-06 Project: SLOP
		Client: CH2M Job Site: SLOP	



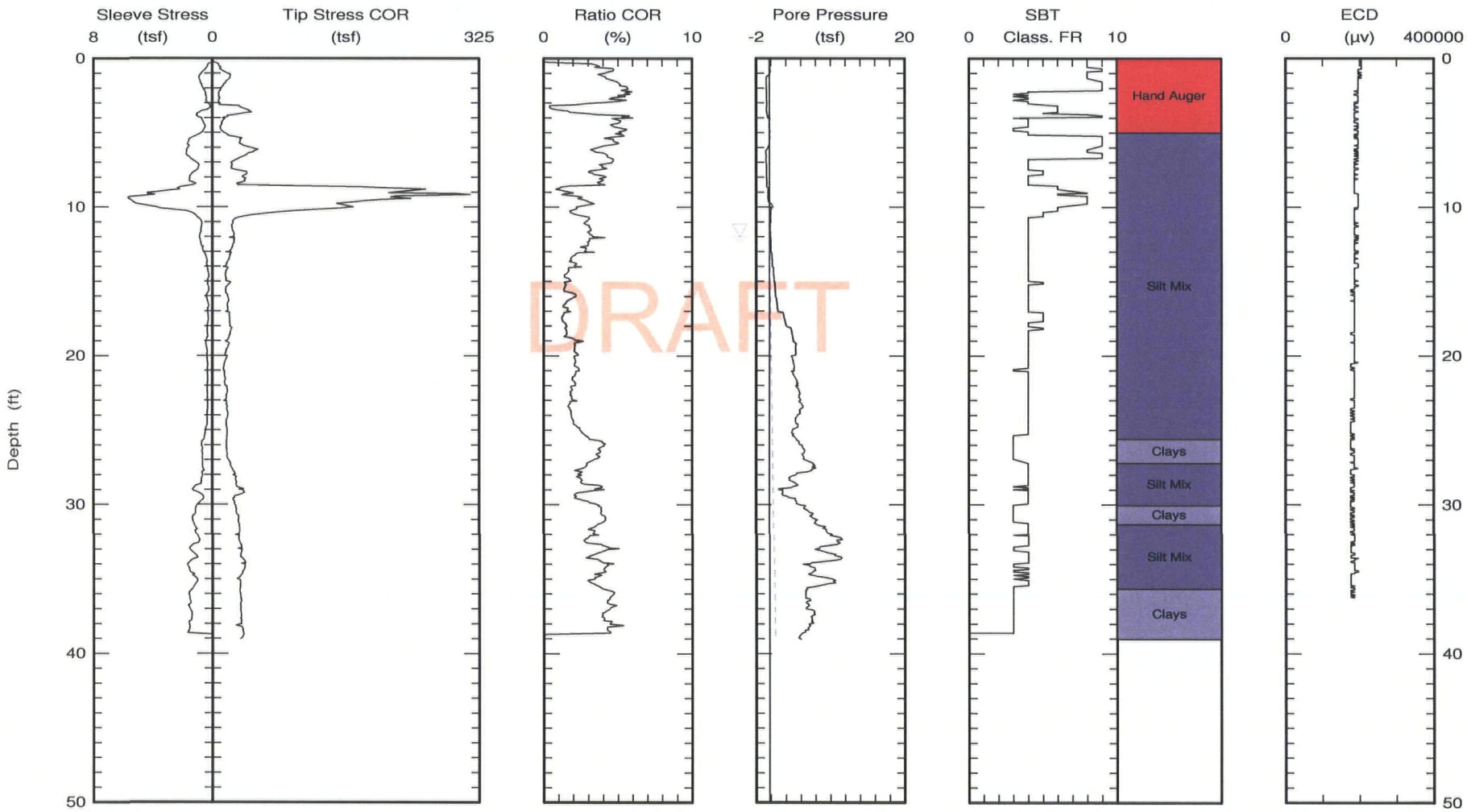
Maximum depth: 28.11 (ft)

Class FR: Friction Ratio Classification (Ref: Robertson 1990)

Estimated Phreatic Surface

Test ID: MIP-06
File: MIP-06~1.CSV

DIRECT SENSING PATC FLORIDA 407-426-7885 CALIFORNIA 510-237-4575 ... there is a better way...	Direct Sensing Division. 2300 Silver Star Rd,Orlando FL,32804 407-427-7885 clayton.bartholomew@patc-usa.com www.precisiontecha.com	Northing: Easting: Elevation: Client: CH2M Job Site: SLOP	Date: 16/May/2008 Test ID: MIP-07 Project: SLOP



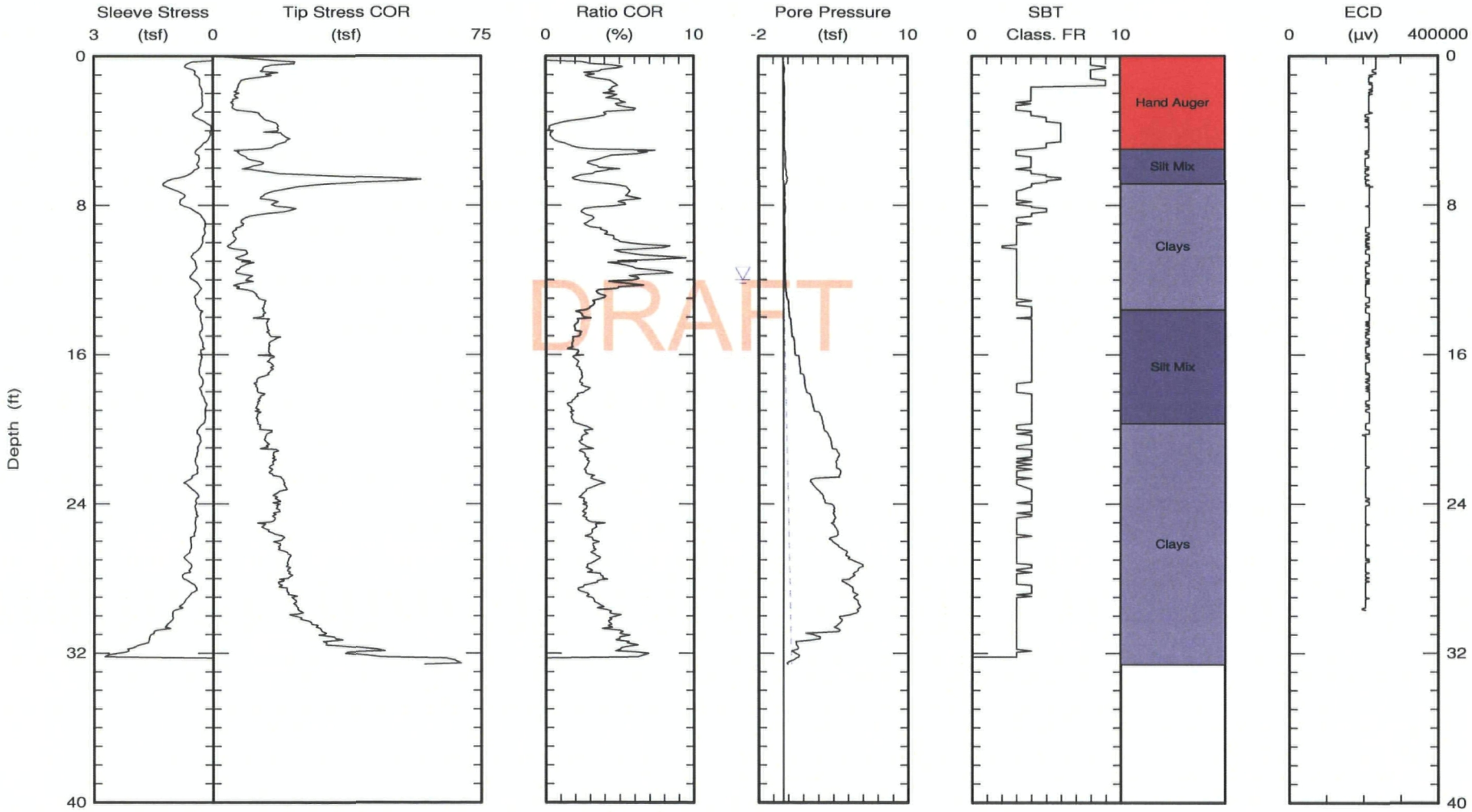
Maximum depth: 39.04 (ft)

Class FR: Friction Ratio Classification (Ref: Robertson 1990)

Estimated Phreatic Surface

Test ID: MIP-07
File: MIP-07~1.CSV

DIRECT SENSING PATC FLORIDA 407-426-7885 CALIFORNIA 510-237-4575 ... there is a better way...	Direct Sensing Division. 2300 Silver Star Rd,Orlando FL,32804 407-427-7885 clayton.bartholomew@patc-usa.com www.precisiontecha.com	Northing: Easting: Elevation:	Date: 16/May/2008 Test ID: MIP-08 Project: SLOP
		Client: CH2M Job Site: SLOP	



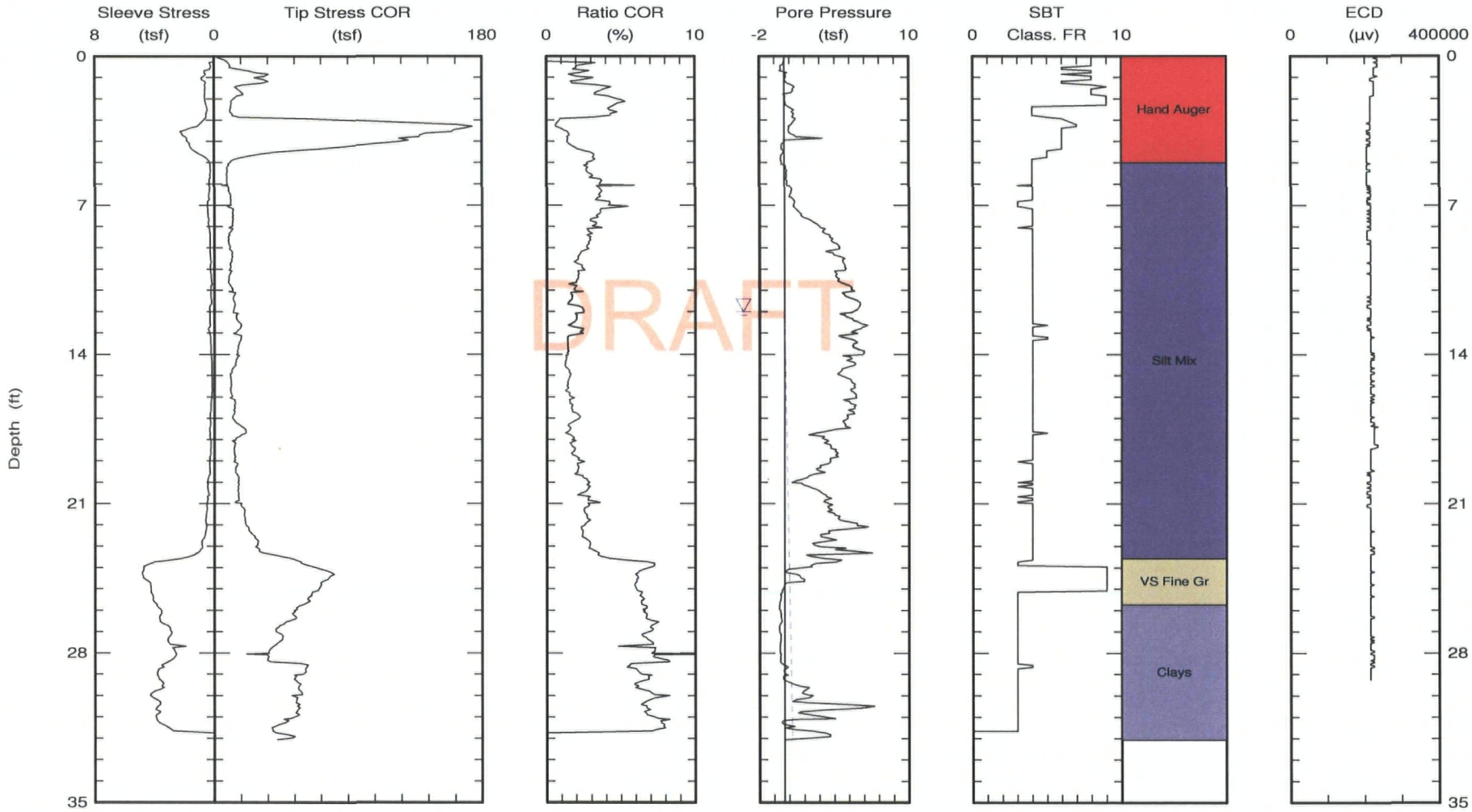
Maximum depth: 32.60 (ft)

Class FR: Friction Ratio Classification (Ref: Robertson 1990)

Estimated Phreatic Surface

Test ID: MIP-08
File: MIP-08~1.CSV

DIRECT SENSING PATC FLORIDA 407-426-7885 CALIFORNIA 510-237-4575 ... there is a better way...	Direct Sensing Division. 2300 Silver Star Rd,Orlando FL,32804 407-427-7885 clayton.bartholomew@patc-usa.com www.precisiontecha.com	Northing: Easting: Elevation:	Date: 17/May/2008 Test ID: MIP-09 Project: SLOP
		Client: CH2M Job Site: SLOP	



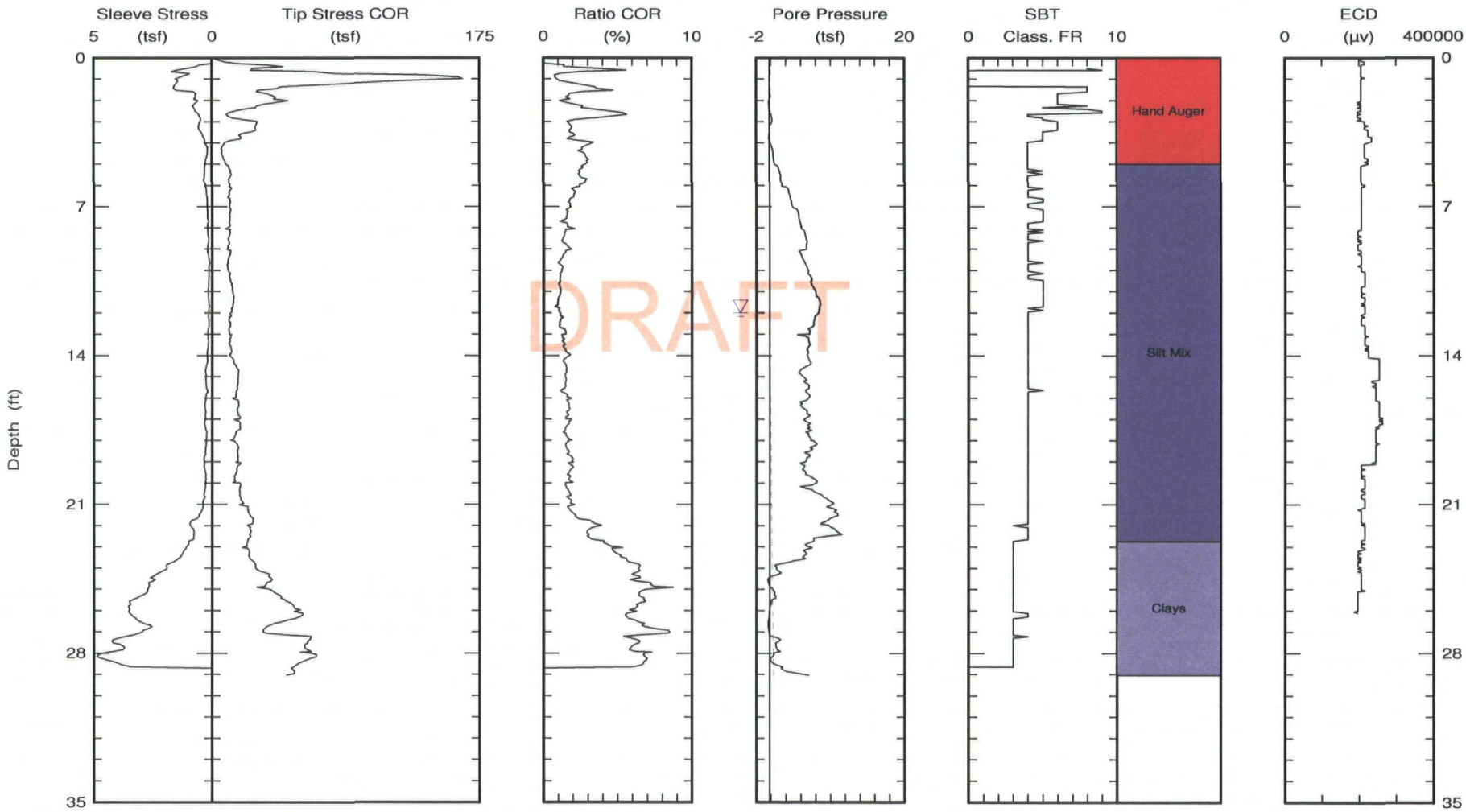
Maximum depth: 32.07 (ft)

Class FR: Friction Ratio Classification (Ref: Robertson 1990)

Estimated Phreatic Surface

Test ID: MIP-09
File: MIP-09~1.CSV

DIRECT SENSING PATC FLORIDA 407-426-7885 CALIFORNIA 510-237-4575 ... there is a better way...	Direct Sensing Division. 2300 Silver Star Rd,Orlando FL,32804 407-427-7885 clayton.bartholomew@patc-usa.com www.precisiontecha.com	Northing: Easting: Elevation:	Date: 17/May/2008 Test ID: MIP-10 Project: SLOP
		Client: CH2M Job Site: SLOP	



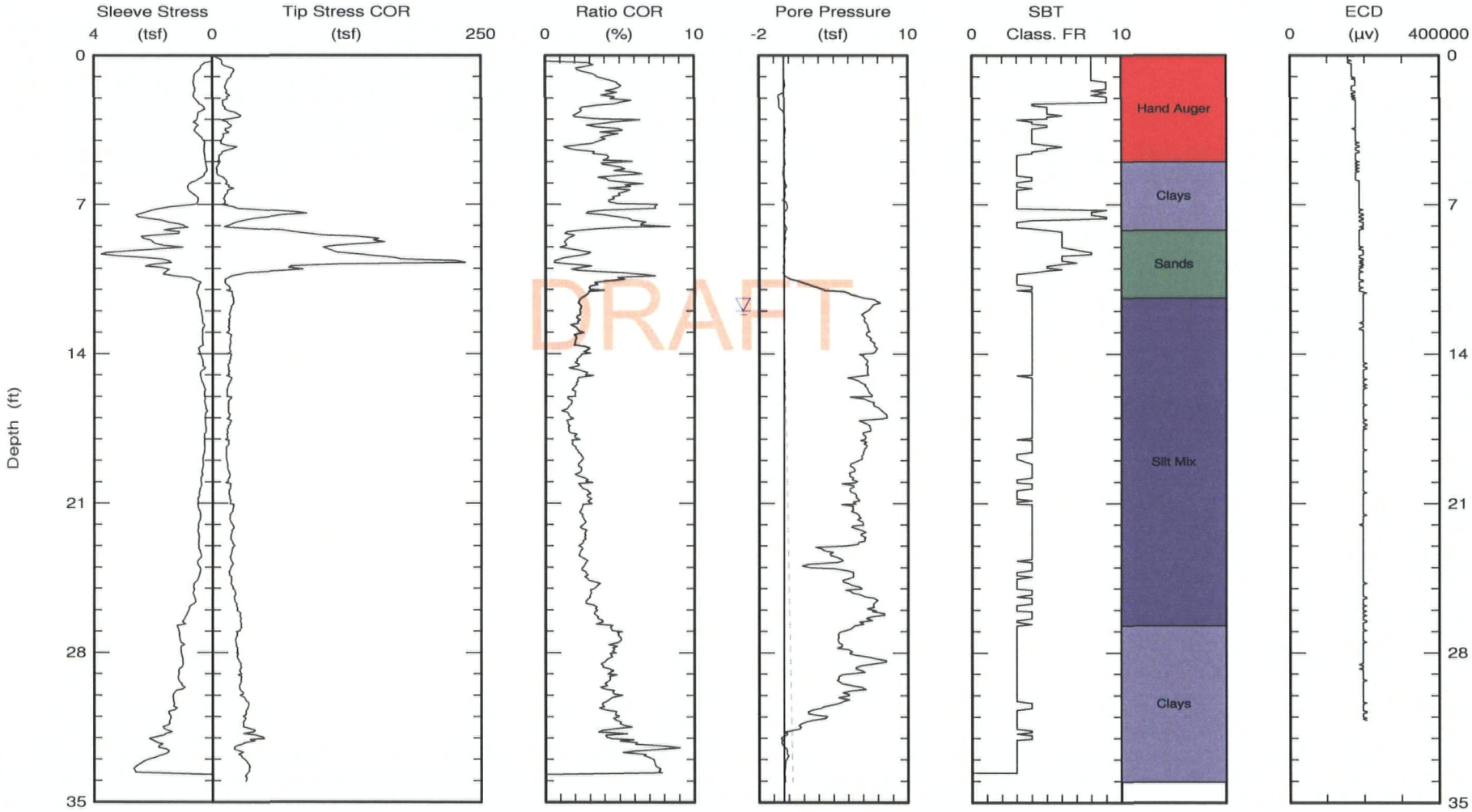
Maximum depth: 29.03 (ft)

Class FR: Friction Ratio Classification (Ref: Robertson 1990)

Estimated Phreatic Surface

Test ID: MIP-10
File: MIP-10~1.CSV

DIRECT SENSING PATC FLORIDA 407-426-7885 CALIFORNIA 510-237-4575 ...there is a better way...	Direct Sensing Division. 2300 Silver Star Rd,Orlando FL,32804 407-427-7885 clayton.bartholomew@patc-usa.com www.precisiontecha.com	Northing: Easting: Elevation:	Date: 17/May/2008 Test ID: MIP-11 Project: SLOP
		Client: CH2M Job Site: SLOP	



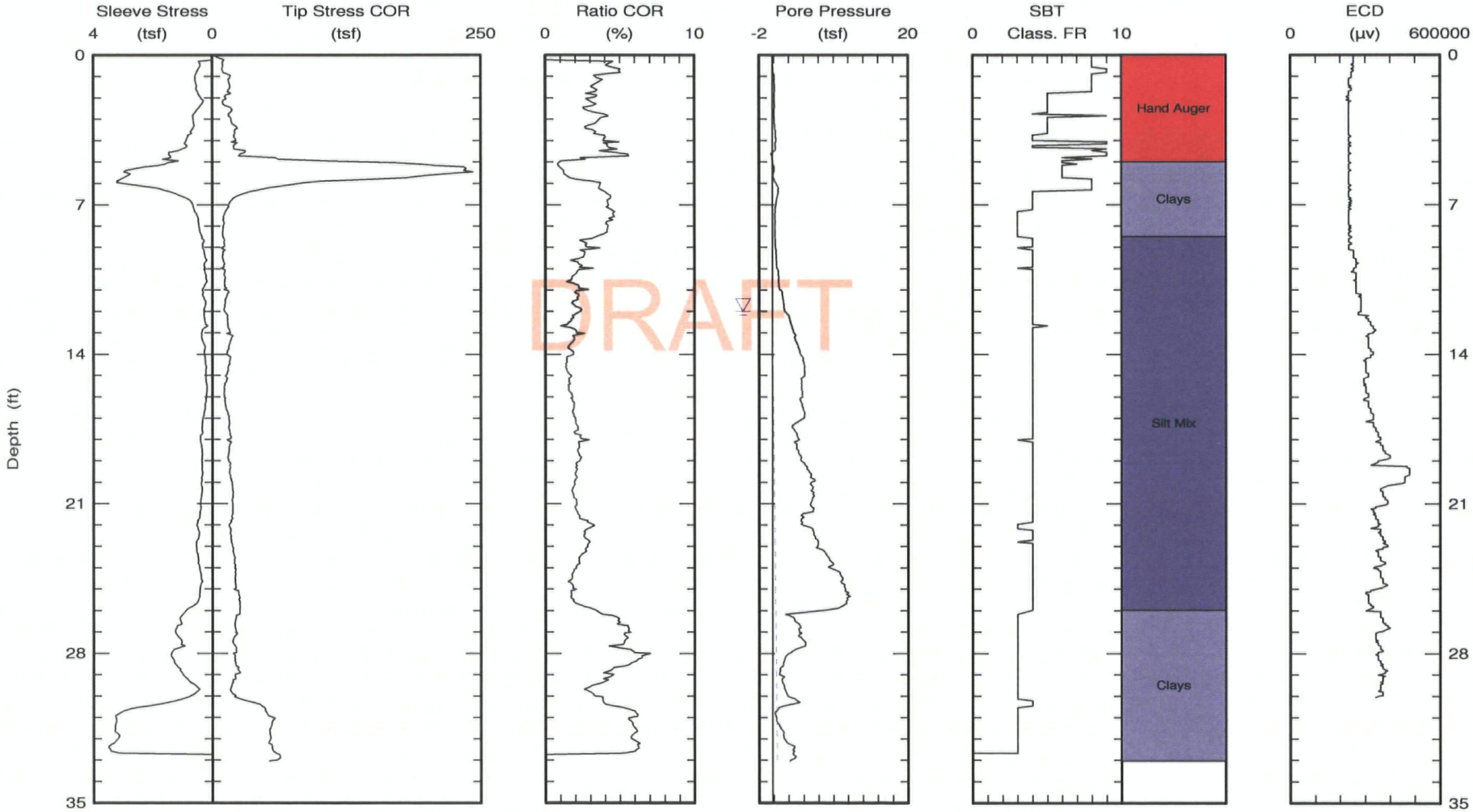
Maximum depth: 34.04 (ft)

Class FR: Friction Ratio Classification (Ref: Robertson 1990)

Estimated Phreatic Surface

Test ID: MIP-11
File: MIP-11~1.CSV

DIRECT SENSING PATC FLORIDA 407-426-7885 CALIFORNIA 510-237-4575 ... there is a better way...	Direct Sensing Division. 2300 Silver Star Rd,Orlando FL,32804 407-427-7885 clayton.bartholomew@patc-usa.com www.precisiontecha.com	Northing: Easting: Elevation:	Date: 17/May/2008 Test ID: MIP-12 Project: SLOP
		Client: CH2M Job Site: SLOP	



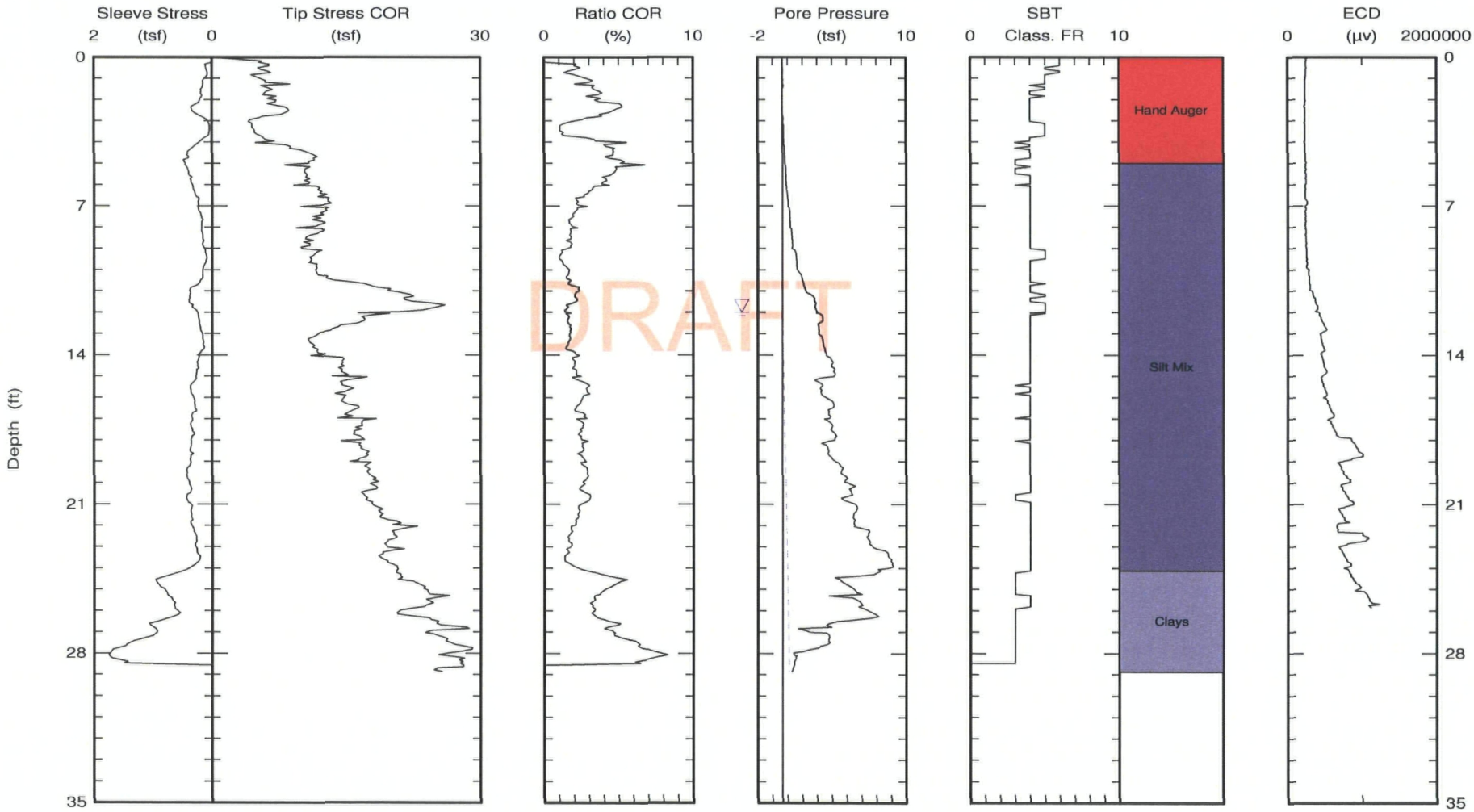
Maximum depth: 33.04 (ft)

Class FR: Friction Ratio Classification (Ref: Robertson 1990)

Estimated Phreatic Surface

Test ID: MIP-12
File: MIP-12~1.CSV

DIRECT SENSING PATC FLORIDA 407-426-7885 CALIFORNIA 510-237-4575 ...there is a better way...	Direct Sensing Division. 2300 Silver Star Rd,Orlando FL,32804 407-427-7885 clayton.bartholomew@patc-usa.com www.precisiontecha.com	Northing: Easting: Elevation: Client: CH2M Job Site: SLOP	Date: 17/May/2008 Test ID: MIP-13 Project: SLOP



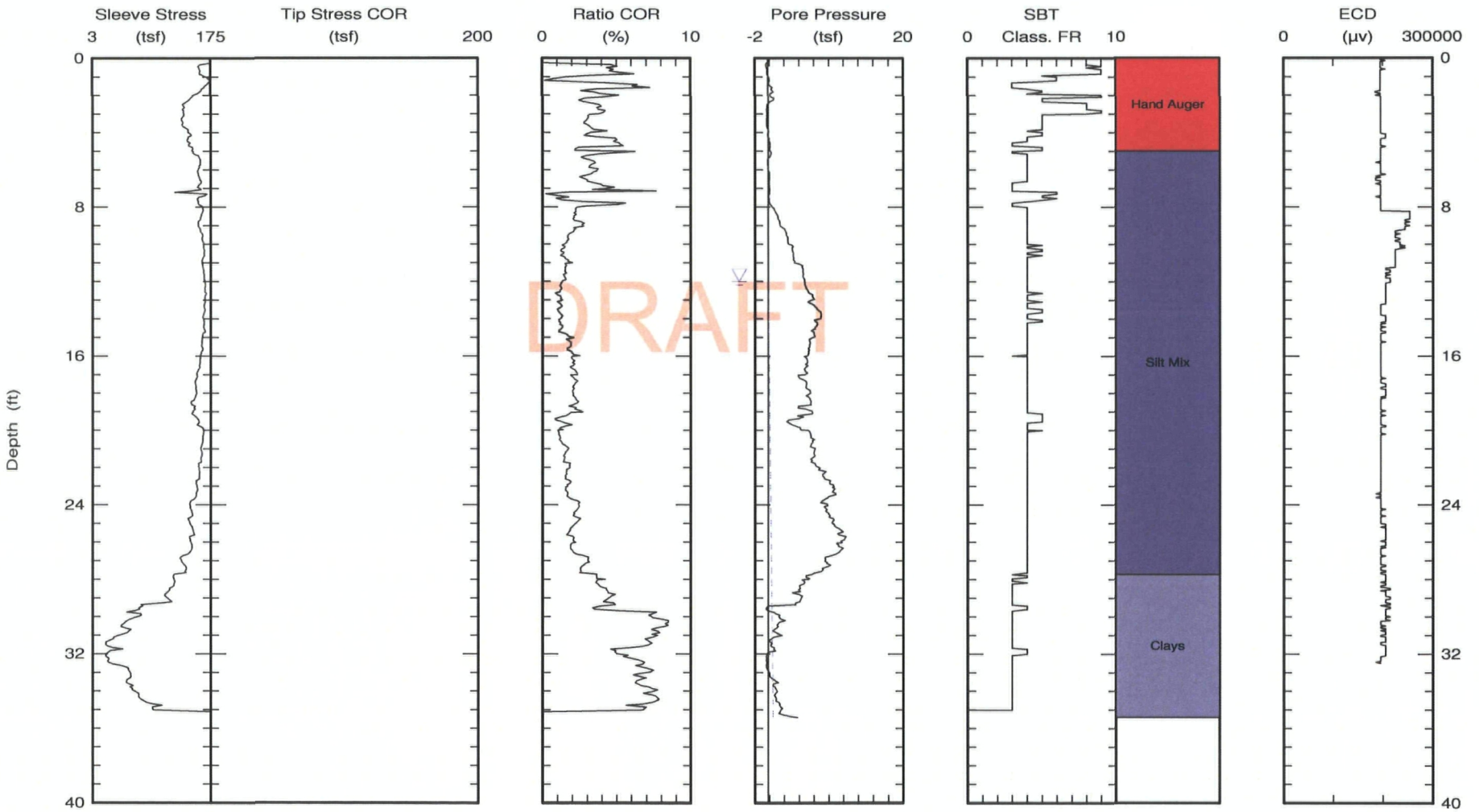
Maximum depth: 28.87 (ft)

Class FR: Friction Ratio Classification (Ref: Robertson 1990)

Estimated Phreatic Surface

Test ID: MIP-13
File: MIP-13~1.CSV

DIRECT SENSING PATC FLORIDA 407-426-7885 CALIFORNIA 510-237-4575 ... there is a better way...	Direct Sensing Division. 2300 Silver Star Rd,Orlando FL,32804 407-427-7885 clayton.bartholomew@patc-usa.com www.precisiontecha.com	Northing: Easting: Elevation:	Date: 18/May/2008 Test ID: MIP-14 Project: SLOP
		Client: CH2M Job Site: SLOP	



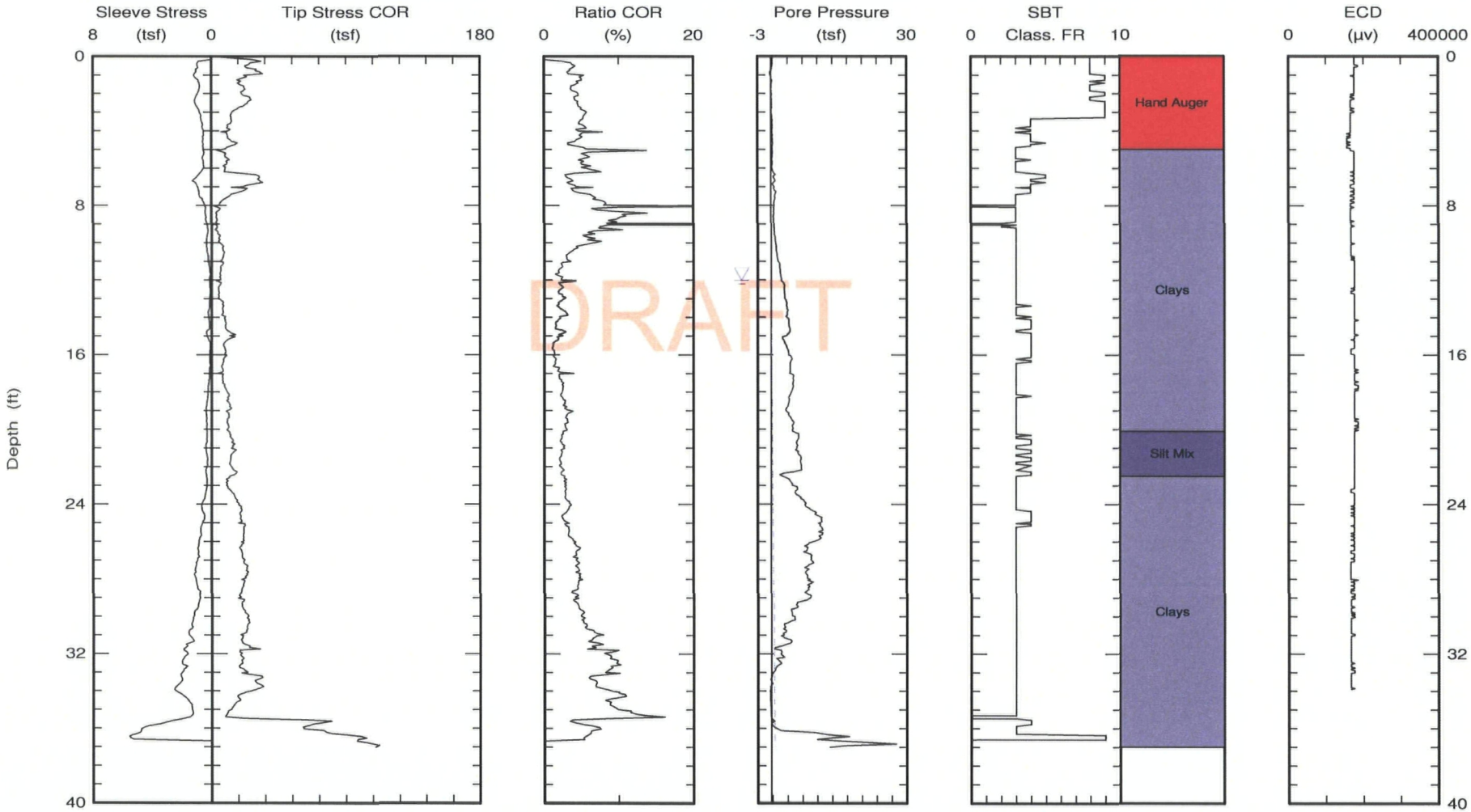
Maximum depth: 35.42 (ft)

Class FR: Friction Ratio Classification (Ref: Robertson 1990)

Estimated Phreatic Surface

Test ID: MIP-14
File: MIP-14~1.CSV

DIRECT SENSING PATC FLORIDA 407-426-7885 CALIFORNIA 510-237-4575 ...there is a better way...	Direct Sensing Division. 2300 Silver Star Rd,Orlando FL,32804 407-427-7885 clayton.bartholomew@patc-usa.com www.precisiontecha.com	Northing: Easting: Elevation:	Date: 18/May/2008 Test ID: MIP-15 Project: SLOP
		Client: CH2M Job Site: SLOP	

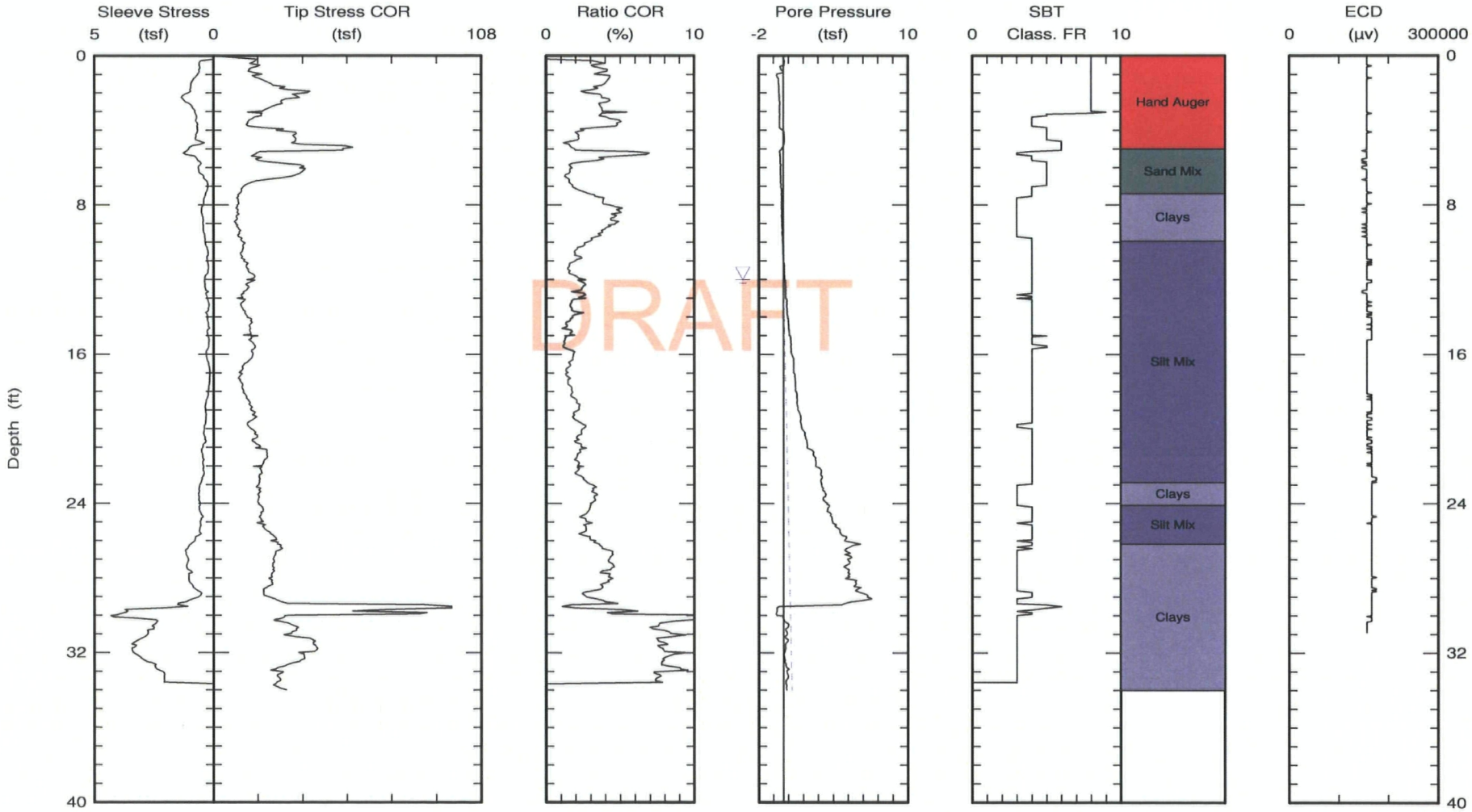


Maximum depth: 37.01 (ft)

Class FR: Friction Ratio Classification (Ref: Robertson 1990)

Estimated Phreatic Surface

DIRECT SENSING PATC FLORIDA 407-426-7885 CALIFORNIA 510-237-4575 ... there is a better way...	Direct Sensing Division. 2300 Silver Star Rd,Orlando FL,32804 407-427-7885 clayton.bartholomew@patc-usa.com www.precisiontecha.com	Northing: Easting: Elevation:	Date: 18/May/2008 Test ID: MIP-16 Project: SLOP
		Client: CH2M Job Site: SLOP	



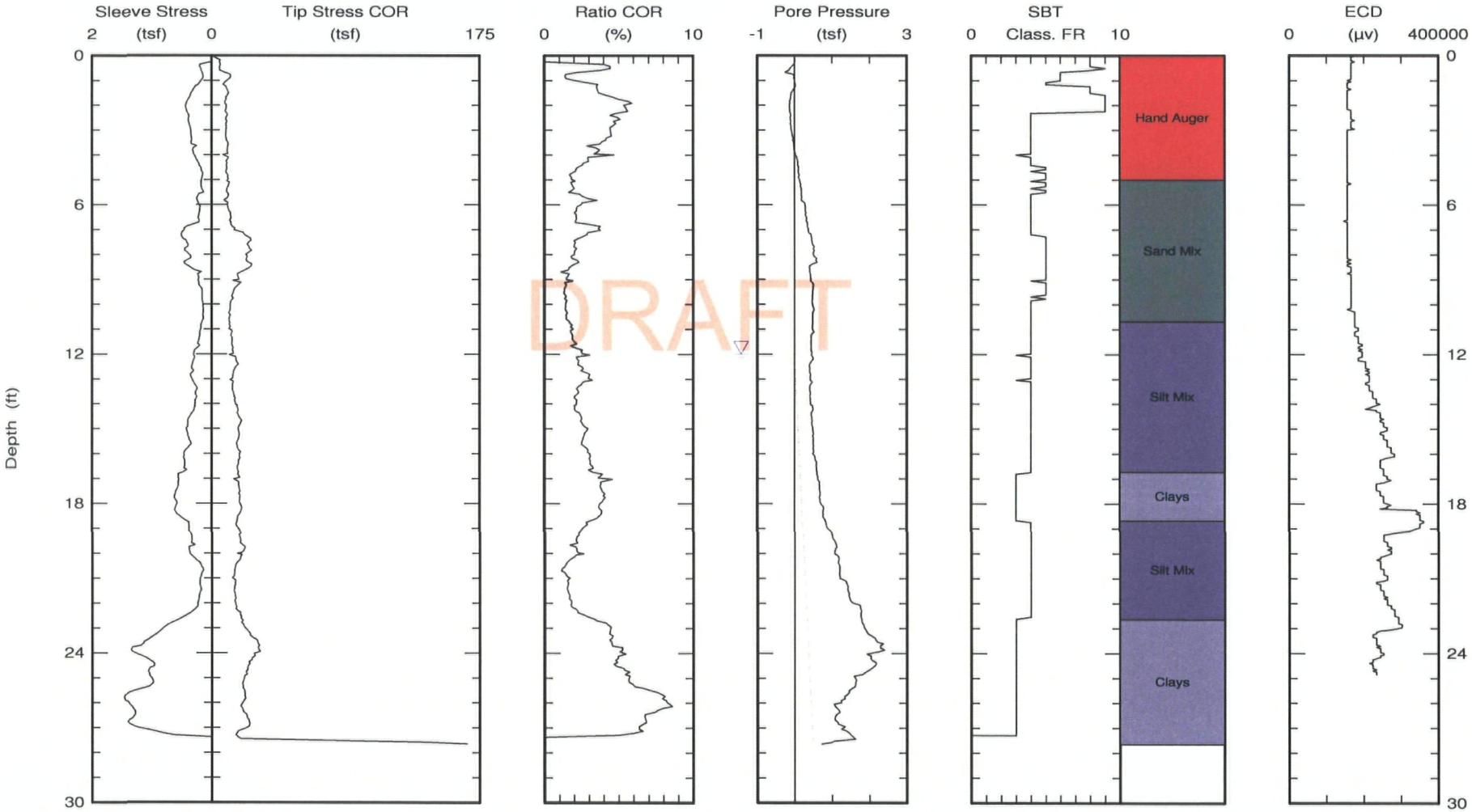
Maximum depth: 33.99 (ft)

Class FR: Friction Ratio Classification (Ref: Robertson 1990)

Estimated Phreatic Surface

Test ID: MIP-16
File: MIP-16~1.CSV

DIRECT SENSING PATC FLORIDA 407-426-7885 CALIFORNIA 510-237-4575 ... there is a better way...	Direct Sensing Division. 2300 Silver Star Rd,Orlando FL,32804 407-427-7885 clayton.bartholomew@patc-usa.com www.precisiontecha.com	Northing: Easting: Elevation: Client: CH2M Job Site: SLOP	Date: 18/May/2008 Test ID: MIP-17 Project: SLOP



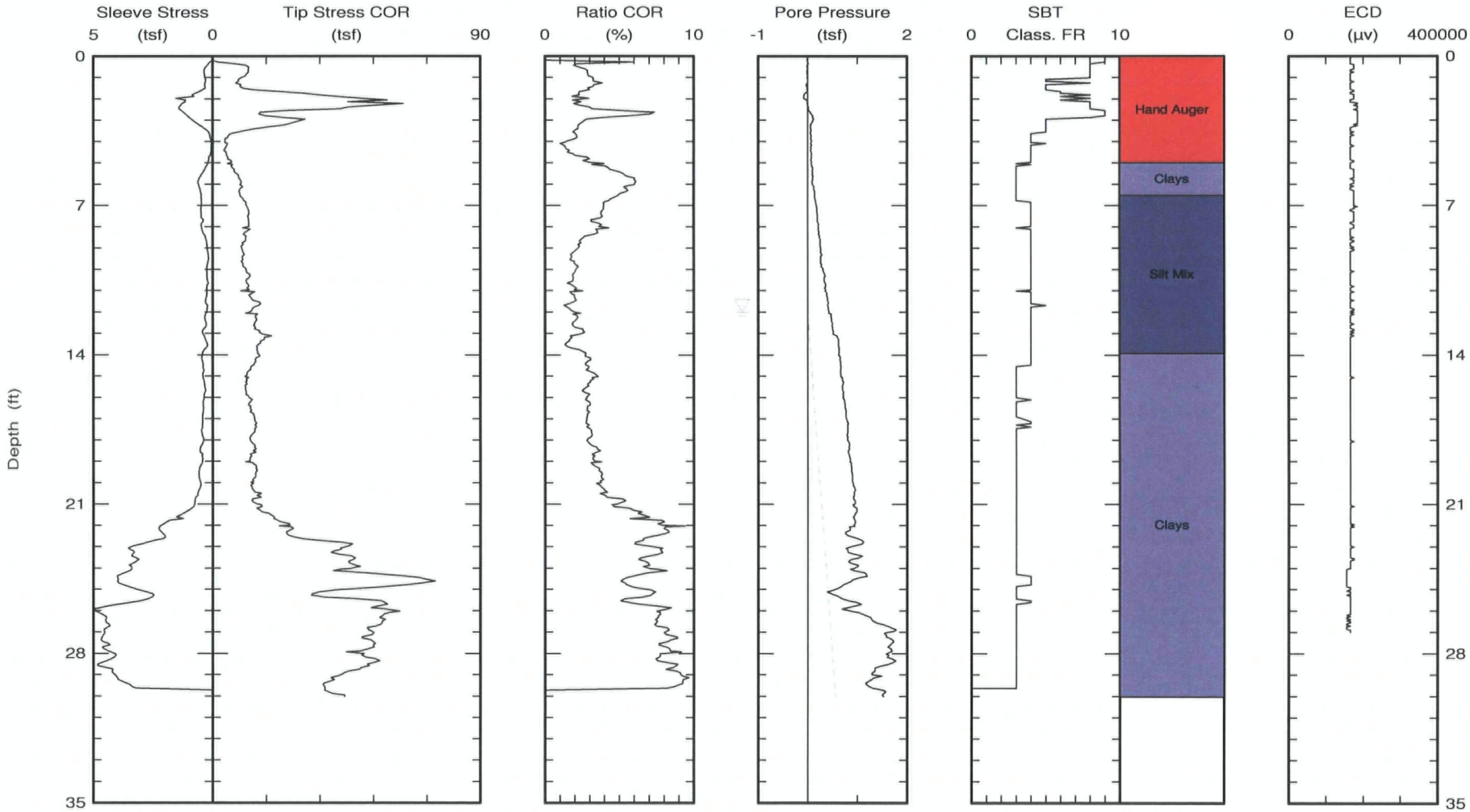
Maximum depth: 27.64 (ft)

Class FR: Friction Ratio Classification (Ref: Robertson 1990)

▽ Estimated Phreatic Surface

Test ID: MIP-17
File: MIP-17~1.CSV

DIRECT SENSING PATC FLORIDA 407-426-7885 CALIFORNIA 510-237-4575 ...there is a better way...	Direct Sensing Division. 2300 Silver Star Rd,Orlando FL,32804 407-427-7885 clayton.bartholomew@patc-usa.com www.precisiontecha.com	Northing: Easting: Elevation:	Date: 18/May/2008 Test ID: MIP-18 Project: SLOP
		Client: CH2M Job Site: SLOP	



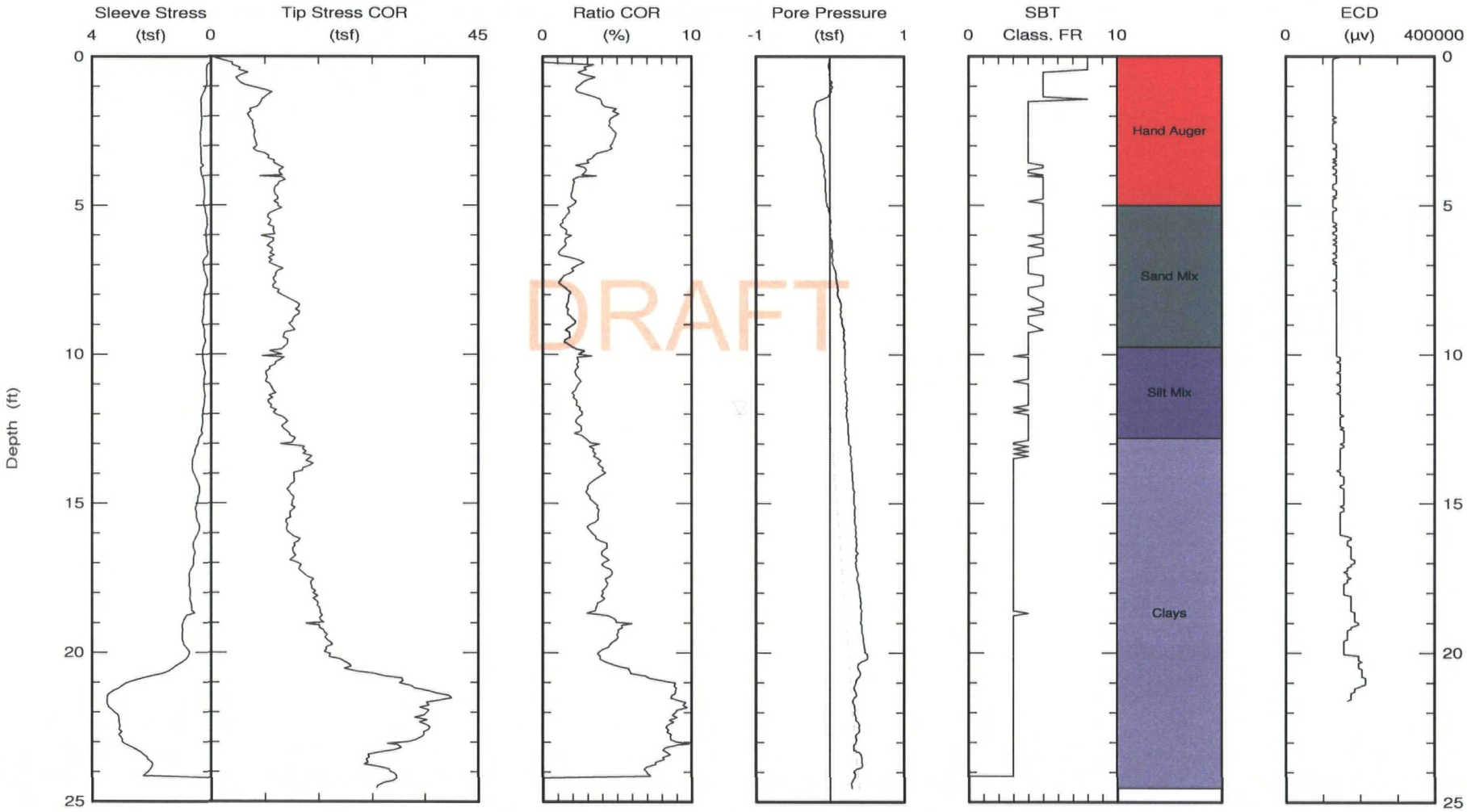
Maximum depth: 30.02 (ft)

Class FR: Friction Ratio Classification (Ref: Robertson 1990)

Estimated Phreatic Surface

Test ID: MIP-18
File: MIP-18~1.CSV

DIRECT SENSING PATC FLORIDA 407-426-7885 CALIFORNIA 510-237-4575 ... there is a better way...	Direct Sensing Division. 2300 Silver Star Rd,Orlando FL,32804 407-427-7885 clayton.bartholomew@patc-usa.com www.precisiontecha.com	Northing: Easting: Elevation: Client: CH2M Job Site: SLOP	Date: 18/May/2008 Test ID: MIP-19 Project: SLOP



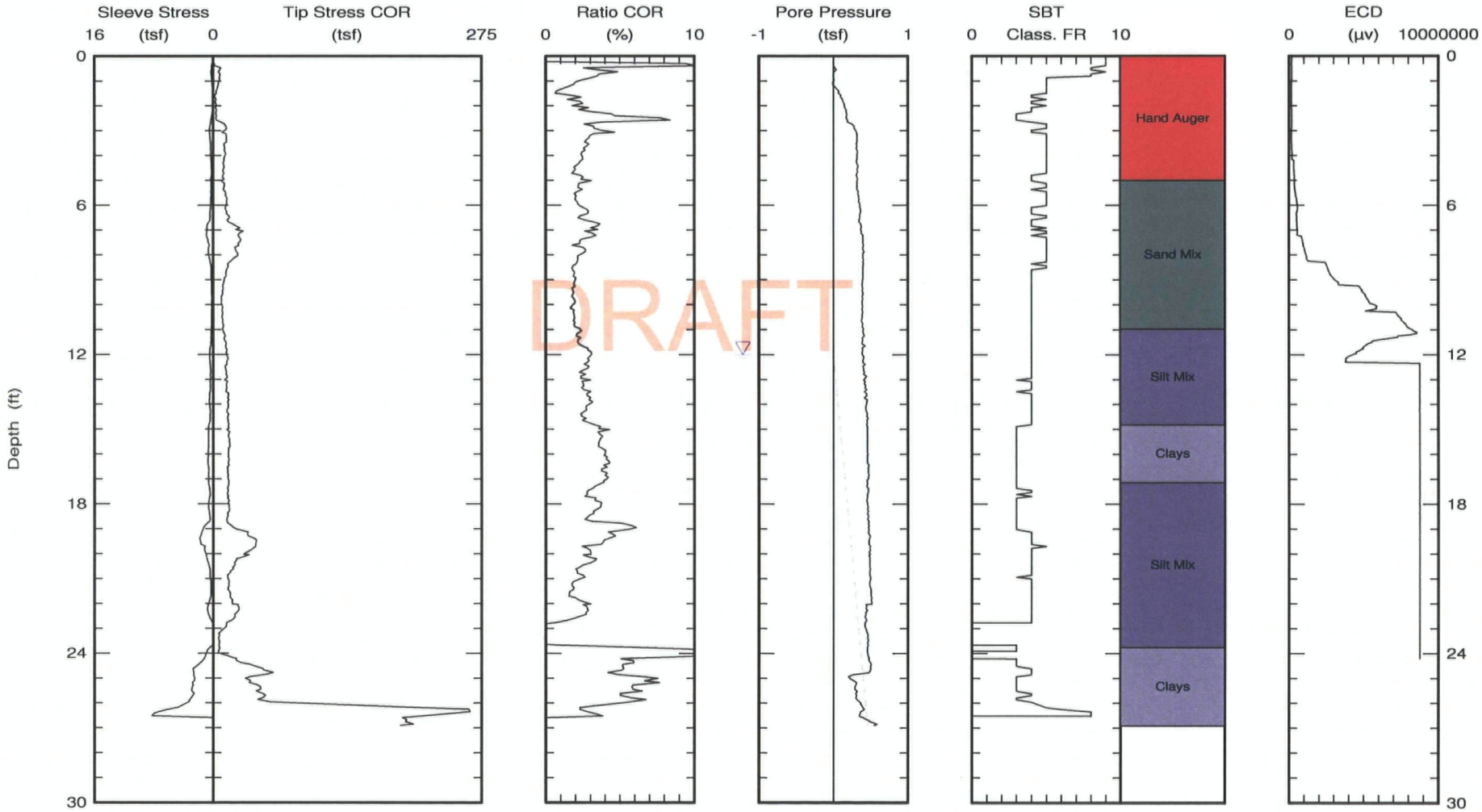
Maximum depth: 24.54 (ft)

Class FR: Friction Ratio Classification (Ref: Robertson 1990)

Estimated Phreatic Surface

Test ID: MIP-19
File: MIP-19~1.CSV

DIRECT SENSING PATC FLORIDA 407-426-7885 CALIFORNIA 510-237-4575 ... there is a better way...	Direct Sensing Division. 2300 Silver Star Rd,Orlando FL,32804 407-427-7885 clayton.bartholomew@patc-usa.com www.precisiontecha.com	Northing: Easting: Elevation:	Date: 19/May/2008 Test ID: MIP-20 Project: SLOP
		Client: CH2M Job Site: SLOP	



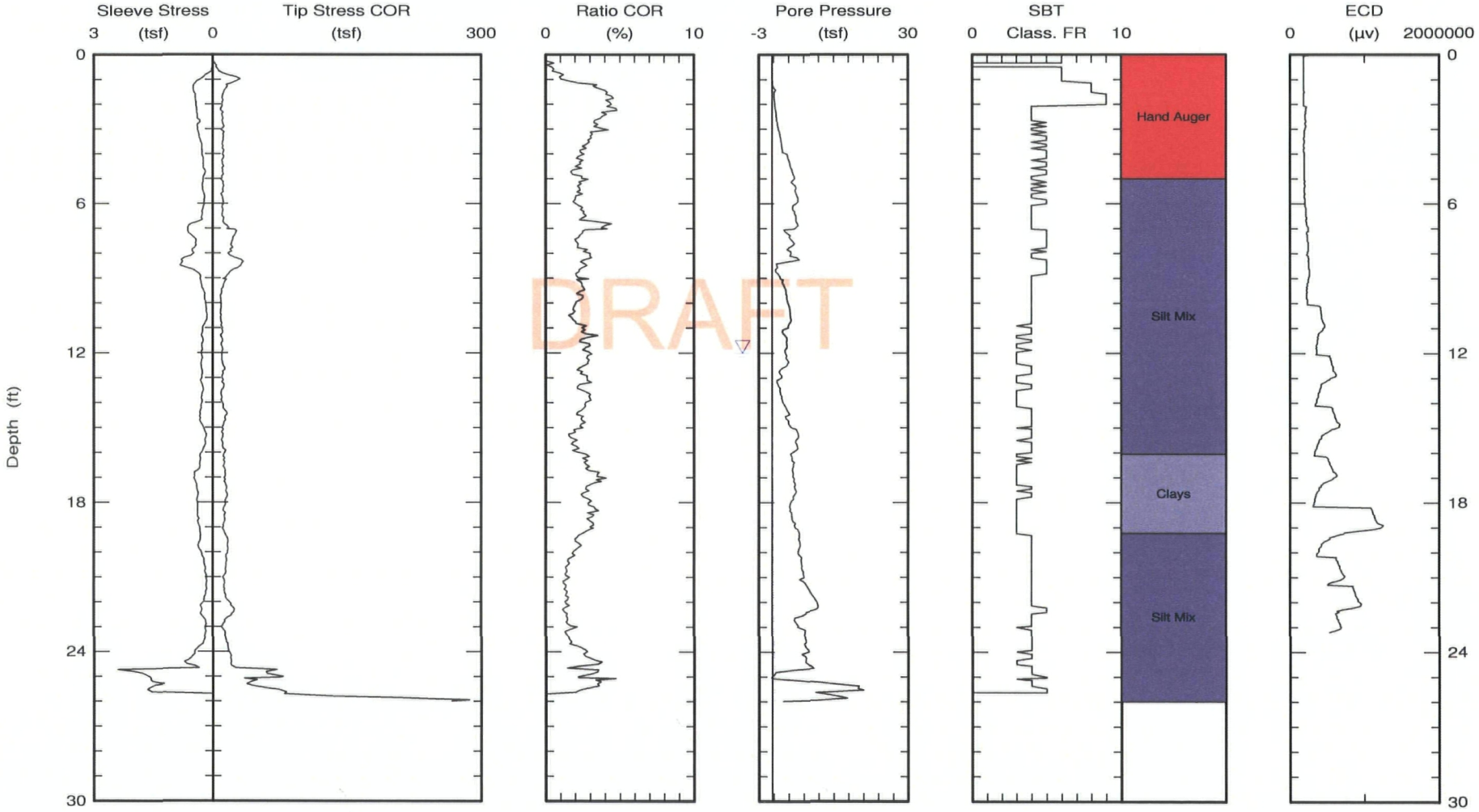
Maximum depth: 26.91 (ft)

Class FR: Friction Ratio Classification (Ref: Robertson 1990)

Estimated Phreatic Surface

Test ID: MIP-20
File: MIP-20~1.CSV

DIRECT SENSING PATC FLORIDA 407-426-7885 CALIFORNIA 510-237-4575 ...there is a better way...	Direct Sensing Division. 2300 Silver Star Rd,Orlando FL,32804 407-427-7885 clayton.bartholomew@patc-usa.com www.precisiontecha.com	Northing: Easting: Elevation: Client: CH2M Job Site: SLOP	Date: 19/May/2008 Test ID: MIP-21 Project: SLOP



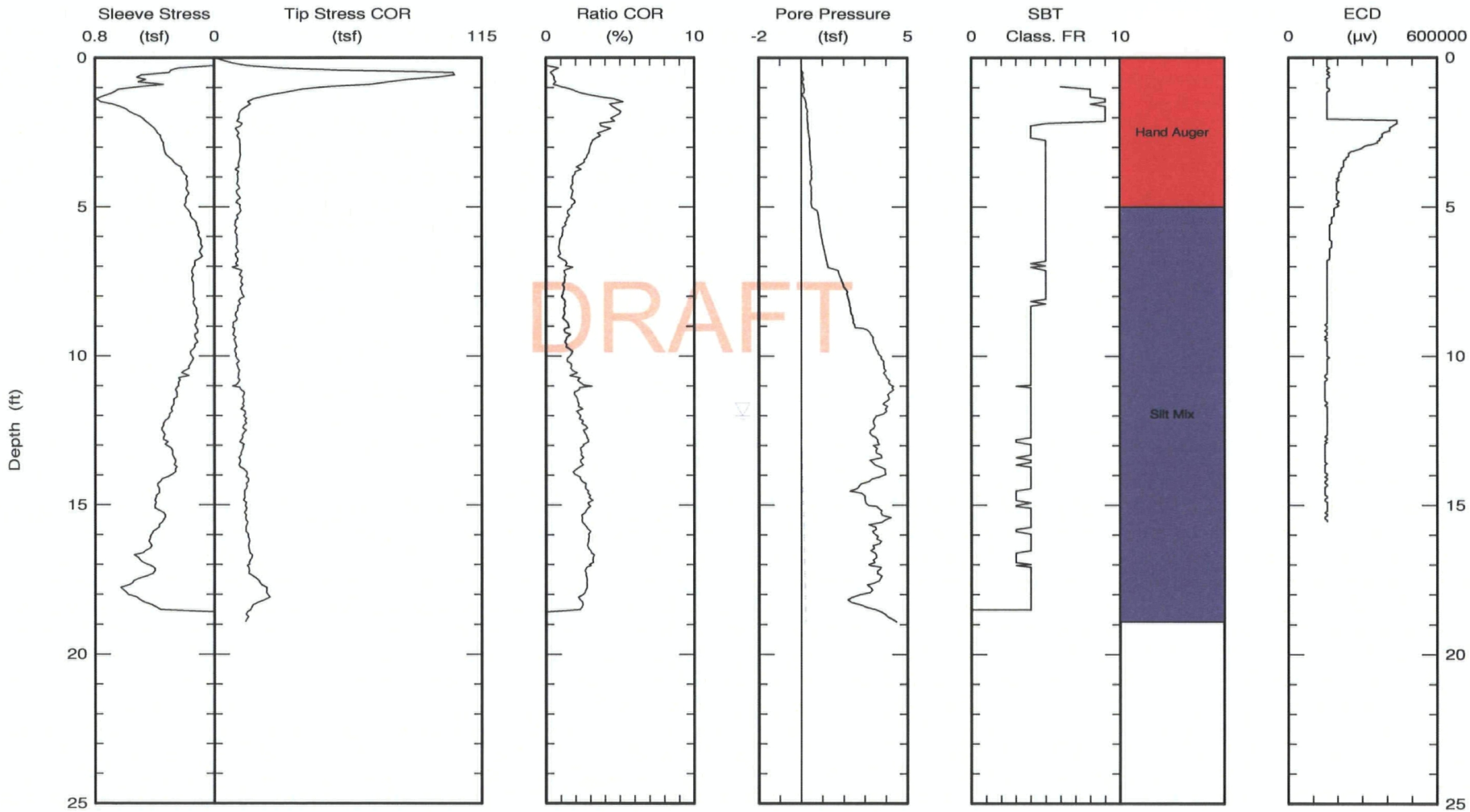
Maximum depth: 25.98 (ft)

Class FR: Friction Ratio Classification (Ref: Robertson 1990)

Estimated Phreatic Surface

Test ID: MIP-21
File: MIP-21~1.CSV

DIRECT SENSING PATC FLORIDA 407-426-7885 CALIFORNIA 510-237-4575 ... there is a better way...	Direct Sensing Division. 2300 Silver Star Rd,Orlando FL,32804 407-427-7885 clayton.bartholomew@patc-usa.com www.precisiontecha.com	Northing: Easting: Elevation:	Date: 19/May/2008 Test ID: MIP-22 Project: SLOP
		Client: CH2M Job Site: SLOP	

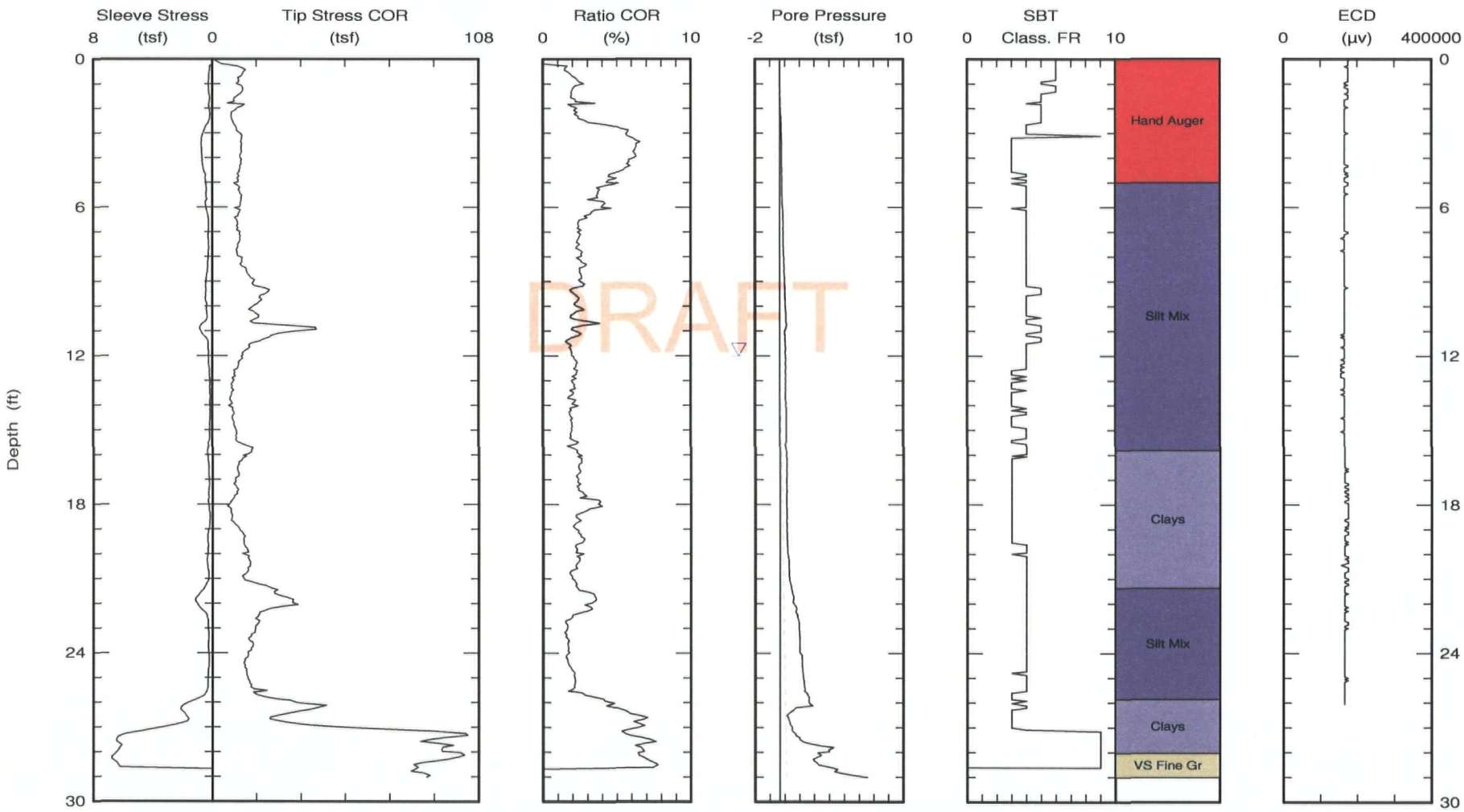


Maximum depth: 18.91 (ft)

Class FR: Friction Ratio Classification (Ref: Robertson 1990)

Estimated Phreatic Surface

DIRECT SENSING PATC FLORIDA 407-426-7885 CALIFORNIA 510-237-4575 ... there is a better way...	Direct Sensing Division. 2300 Silver Star Rd,Orlando FL,32804 407-427-7885 clayton.bartholomew@patc-usa.com www.precisiontecha.com	Northing: Easting: Elevation:	Date: 19/May/2008 Test ID: MIP-23 Project: SLOP
		Client: CH2M Job Site: SLOP	



Maximum depth: 29.01 (ft)

Class FR: Friction Ratio Classification (Ref: Robertson 1990)

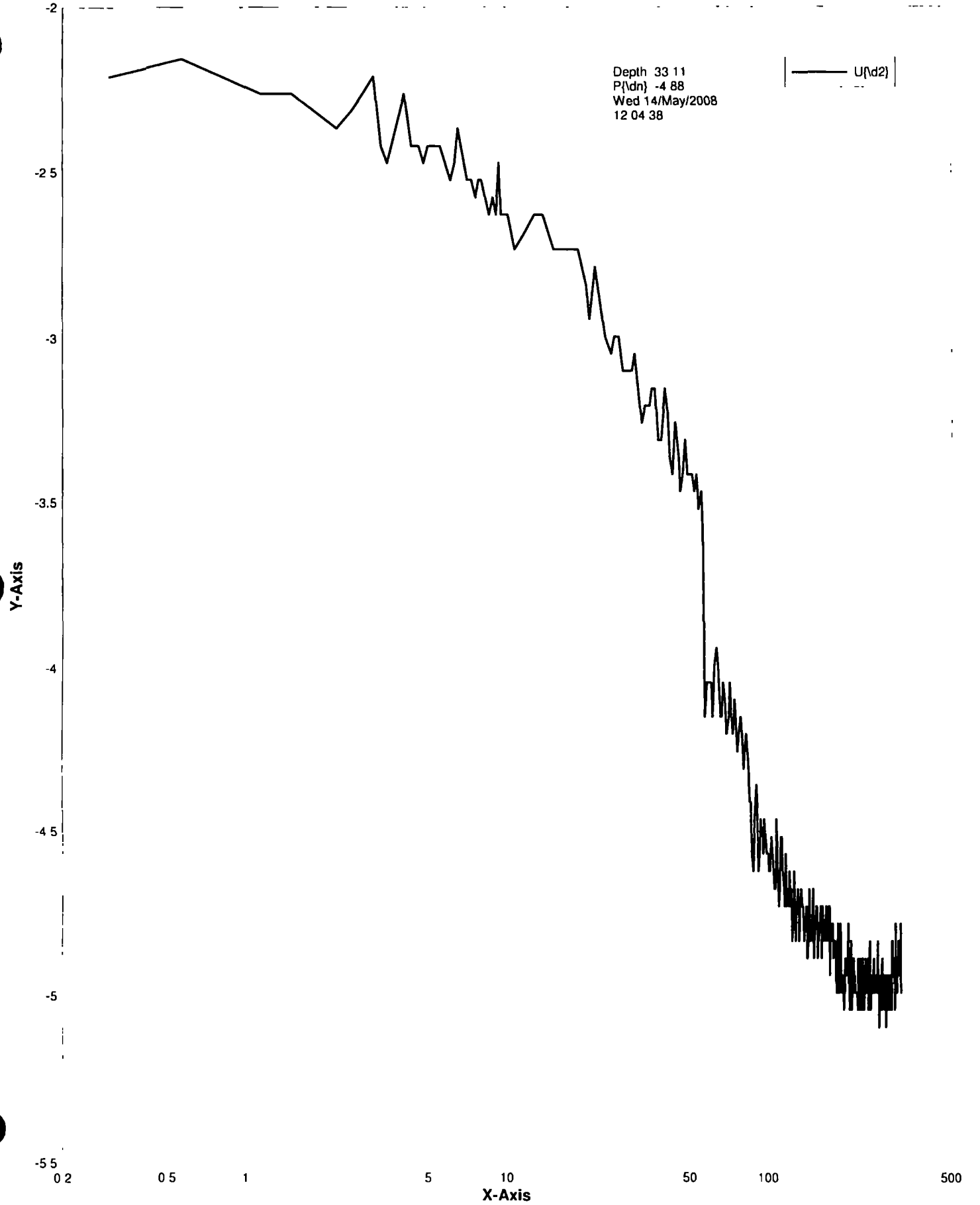
Estimated Phreatic Surface

Test ID: MIP-23
File: MIP-23~1.CSV

Pore Pressure Dissipation Logs

CH2M **MIP-01**

Groundwater Protection **CP-514Y0801D.33**



CH2M CPT-02

Groundwater Protection **CP-514Y0803D.6**

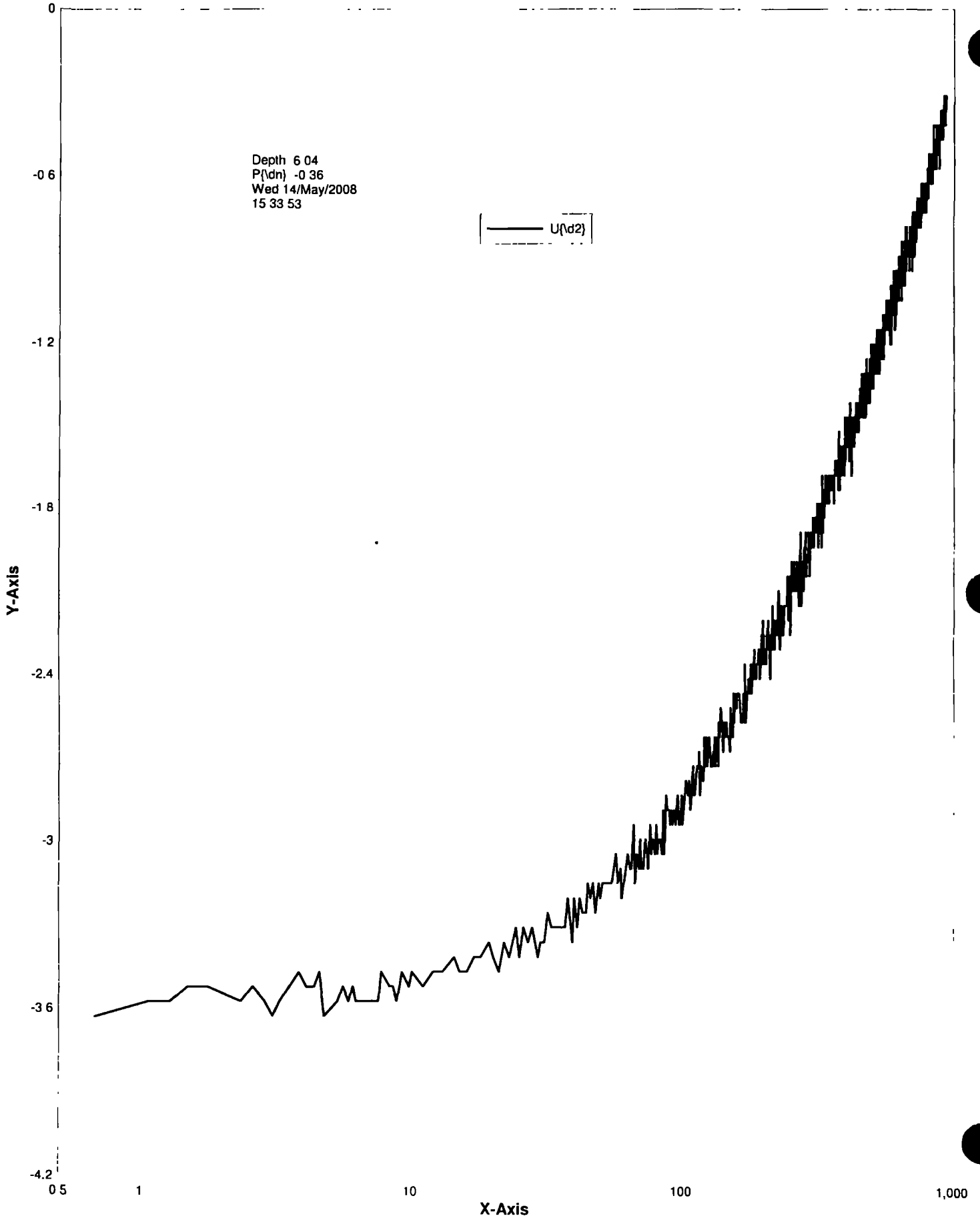


TABLE M-1
Summary of Model Input
Remedial Investigation Report
St Louis Ordnance Plant, Former Hanley Area, St Louis, Missouri

Input Parameter	Units	Value	Reference
Initial Source Concentration (PCE)	g/L	0 034	Calibrated using 2008 groundwater concentrations
Source Mass (PCE)	kg	500	Mass derived for rough conceptual design and cost estimate for site
Gamma	---	1.5	Power function exponent, Assume value for older release
Source Width	m	12	Based on width of elevated ECD readings near MW-111
Source Depth	m	4 6	Relative thickness of shallow source zone in cost estimate
Darcy Velocity	m/yr	0 15	=Ki, Based on hydraulic conductivity of 10^{5} cm/sec (slug tests), hydraulic gradient of 0 054 ft/ft (Water levels, 2008)
Effective Porosity (ne)	ft^3/ft^3	0 085	Assume mobile porosity for alluvial formation
Source Fraction Removed	---	0	Assume no source remediation
Remediation Time	yr	Arbitrary	Not applicable, no source remediation
Source Decay	1/yr	0 03	SourceDK model estimate with minimal biodegradation
Retardation Factor (PCE)	---	2 1	Calculated, R = 1 + (Koc*foc* pb)/n
Partition Coefficient for PCE (Koc)	L/kg	238	Soil Screening Guidance (EPA 1996)
Fraction Organic Carbon (foc)	---	0 0008	Site-specific range is 531 to 1020 mg/kg, lower value selected to simulate a "faster" plume
Soil Bulk Density (pb)	kg/L	1.7	Site-specific (108 9 pcf)
Total Porosity (n)	ft^3/ft^3	0 3	Site-specific
Sigma v	---	0 14142	Assume αx = x/100, low dispersion based on current plume front location
vMin	---	0	Default value, REMChlor User's Guide
vMax	---	1 57	1+4*Sigmav
# streamtubes	---	1000	Arbitrary Value
Alpha y	m	0 050	Assume $\alpha y = \alpha x/10$ and plume length of x = 165 ft (TCE plume, most extensive)
Alpha z	m	0 005	
Maximum X Direction	m	61	Approximate distance between former Building 220 and residential units along an easterly groundwater flow pattern
Maximum Y Direction	m	21	Approximately half of TCE plume width
Maximum Z Direction	m	0	Assume centerline flow
Maximum Time - Calibration1	yr	29	Time between most recent sampling event in 2008 and year that plant shut down in 1979
Maximum Time - Calibration2	yr	49	Time between most recent sampling event in 2008 and year that plant began operation under Hanley in 1959
Maximum Time - Calibration3	yr	67	Time between most recent sampling event in 2008 and year that small arms operations began in 1941
Maximum Time - Future Estimate	yr	79	Assume 50 years in future
First Order Decay Rate			
PCE	/yr	0 20	Estimated using 2008 groundwater concentrations
TCE	/yr	0 15	Estimated using 2008 groundwater concentrations
cis12DCE	/yr	0 10	Estimated using 2008 groundwater concentrations
VC	/yr	2 56	Suarez and Rifai (1999), Geometric mean, field and laboratory reductive dechlorination studies
Product Generation			MW = molecular weight
Yield 1 (PCE-TCE)	---	0 79	MW of TCE/MW of PCE
Yield 2 (PCE-DCE)	---	0 74	MW of DCE/MW of TCE
Yield 3 (DCE-VC)	---	0 64	MW of VC/MW of DCE
Current Field data			June 2008
PCE	µg/L	34900	MW-111; Distance = 0
	µg/L	9440	MW-110, Distance = 20 m
	µg/L	<1	MW-08, Distance = 37 m
TCE	µg/L	1620	MW-111, Distance = 0
	µg/L	129	MW-110, Distance = 20 m
	µg/L	16 8	MW-08, Distance = 37 m
DCE	µg/L	281	MW-111, Distance = 0
	µg/L	82 2	MW-110, Distance = 20 m
	µg/L	9 4	MW-08, Distance = 37 m
VC	µg/L	<50	MW-111, Distance = 0
	µg/L	<20	MW-110, Distance = 20 m
	µg/L	<1	MW-08, Distance = 37 m

REMChlor - [REMChlor Model Parameters]

File Model Help

REMChlor Project

- Project: SLOP_1959
  - Model Parameters
  - View Model Results
    - View File Output
    - View Graphical Output
      - Output vs. Distance
      - 2D Contour

Source Zone Parameters

Source Parameters

Initial Source

Concentration (g/L)	0.47
Mass (Kg)	500
Gamma	1.5

Source Dimensions

Source Width (m)	12
Source Depth (m)	4.6
Darcy Velocity (m/yr)	0.15
Porosity	0.09

Source Remediation

Fraction Removed	0

Remediation Time

Start Time (T1): 0 (Years) End Time (T2): 0

Source Decay (1/yr)	0.03

Transport Parameters

Retardation Factor	2

Velocity

Sigmav: 0.14142 vMin: 0 vMax: 1.57

Number of Stream Tube	500

alphay (m): 0.05 alphaz (m): 0.005

Time, Years

Time ---> Period 2: 100

Time ---> Period 1: 50

	Yield 2 From 1	Yield 3 From 2	Yield 4 From 3
	0.1	0.79	0

Component 1 | Component 2 | Component 3 | Component 4

Component Name: PCE

	Zone 1	Zone 2	Zone 3
Period 3	Decay Rate (1,3) 0.64	Decay Rate (2,3) 0.64	Decay Rate (3,3) 0.64
Period 2	Decay Rate (1,2) 0.64	Decay Rate (2,2) 0.64	Decay Rate (3,2) 0.64
Period 1	Decay Rate (1,1) 0.64	Decay Rate (2,1) 0.64	Decay Rate (3,1) 0.64

X1: 90 X2: 100

Distance From Source, Meters

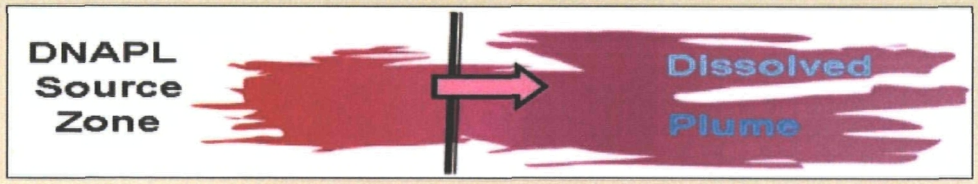
Cancer Risk

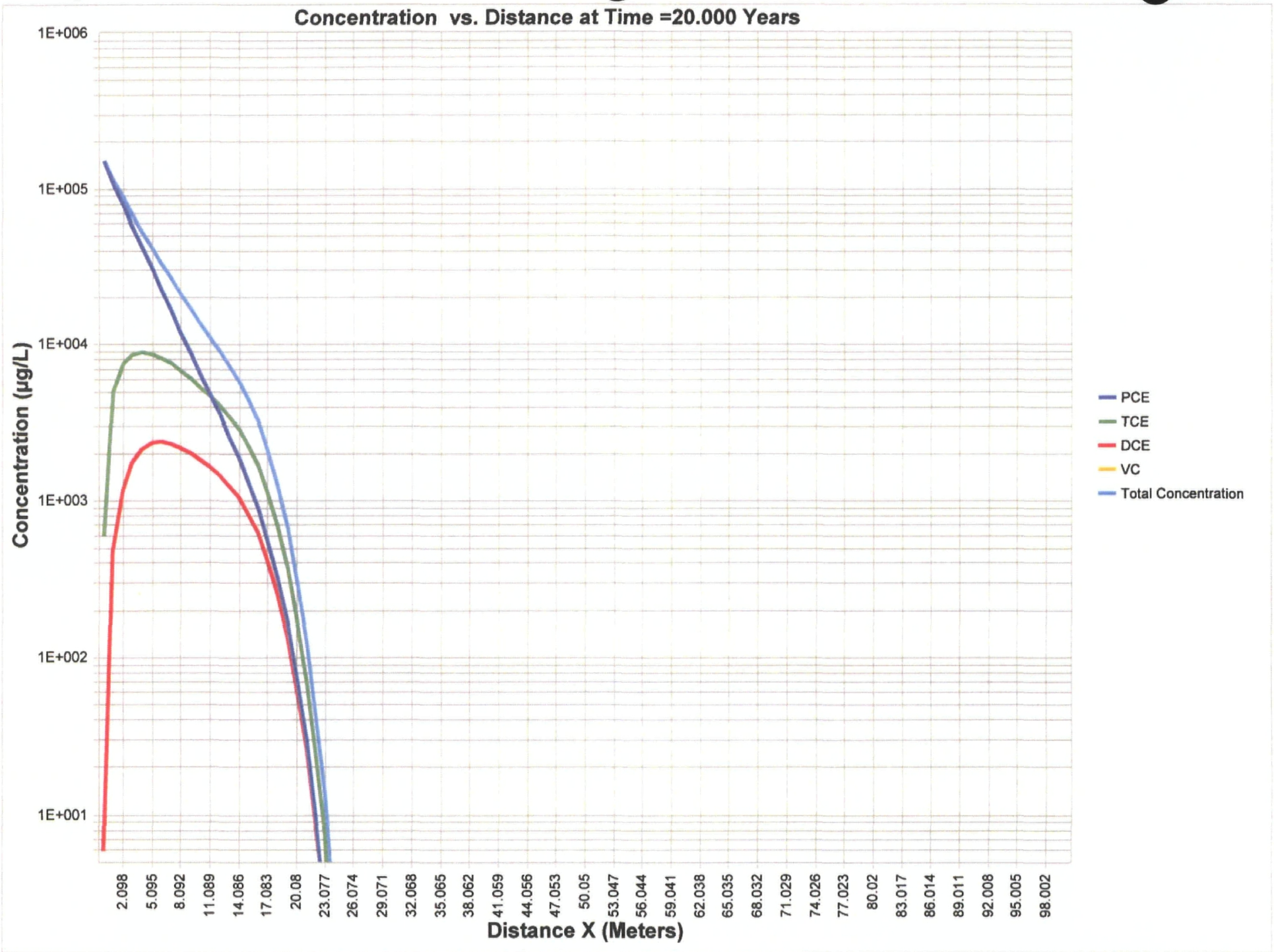
Lifetime Oral Cancer Risk | Lifetime Inhalation Cancer Risk

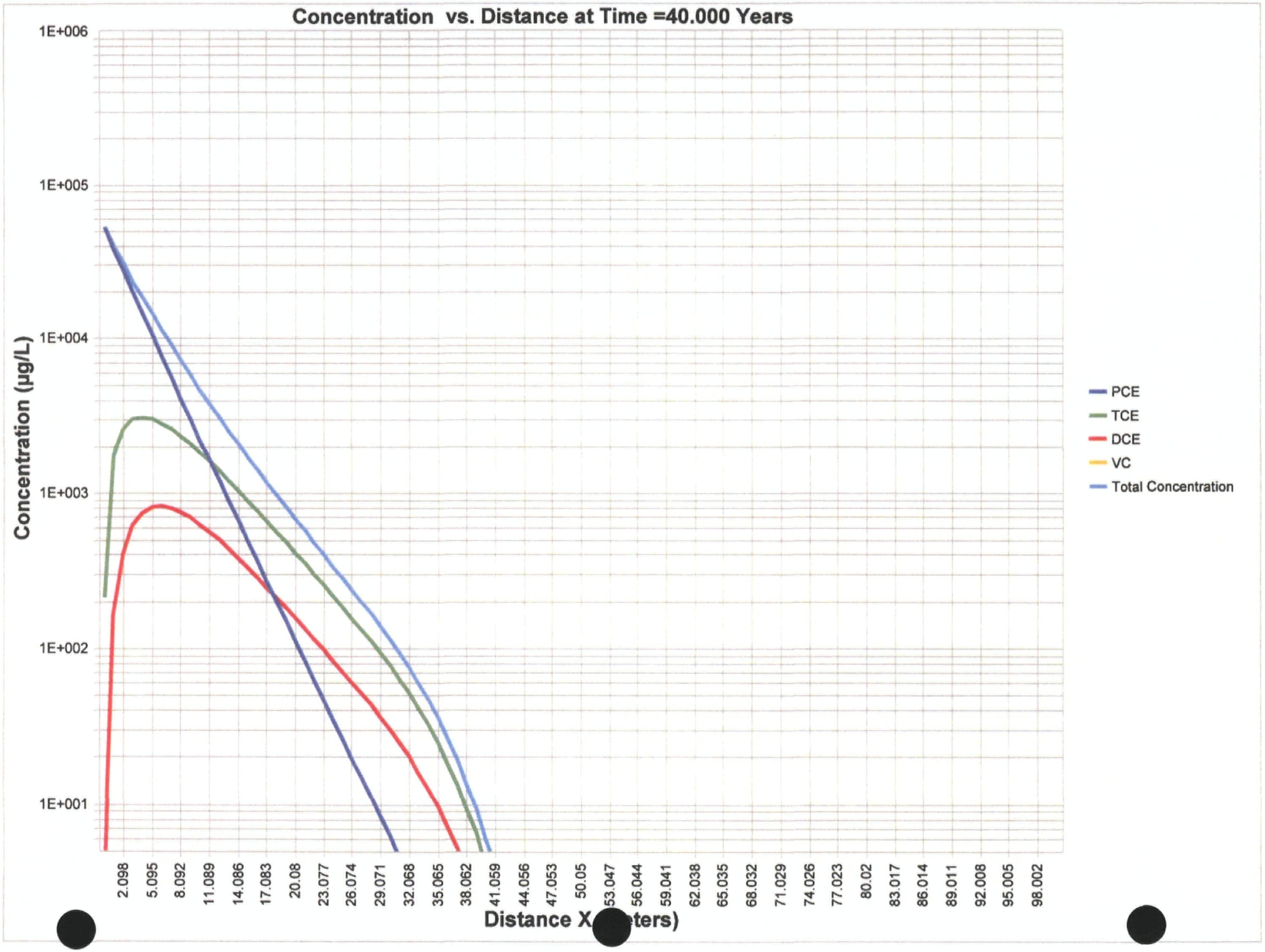
Component 1	Component 2	Component 3	Component 4
0	0	0	0

Simulation Parameters

	Intervals	Min Value	Max Value	Units
X - Direction	101	0.1	100	Meter
Y - Direction	11	-20	20	Meter
Z - Direction	1	0	0	Meter
Time	100	0	100	Year




Concentration vs. Distance at Time =20.000 Years
1E+006
1E+005
1E+004
1E+003
1E+002
1E+001
Concentration (µg/L)
2.098
5.095
8.092
11.089
14.086
17.083
20.08
23.077
26.074
29.071
32.068
35.065
38.062
41.059
44.056
47.053
50.05
53.047
56.044
59.041
62.038
65.035
68.032
71.029
74.026
77.023
80.02
83.017
86.014
89.011
92.008
95.005
98.002
Distance X (Meters)
PCE
TCE
DCE
VC
Total Concentration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Concentration (µg/L)
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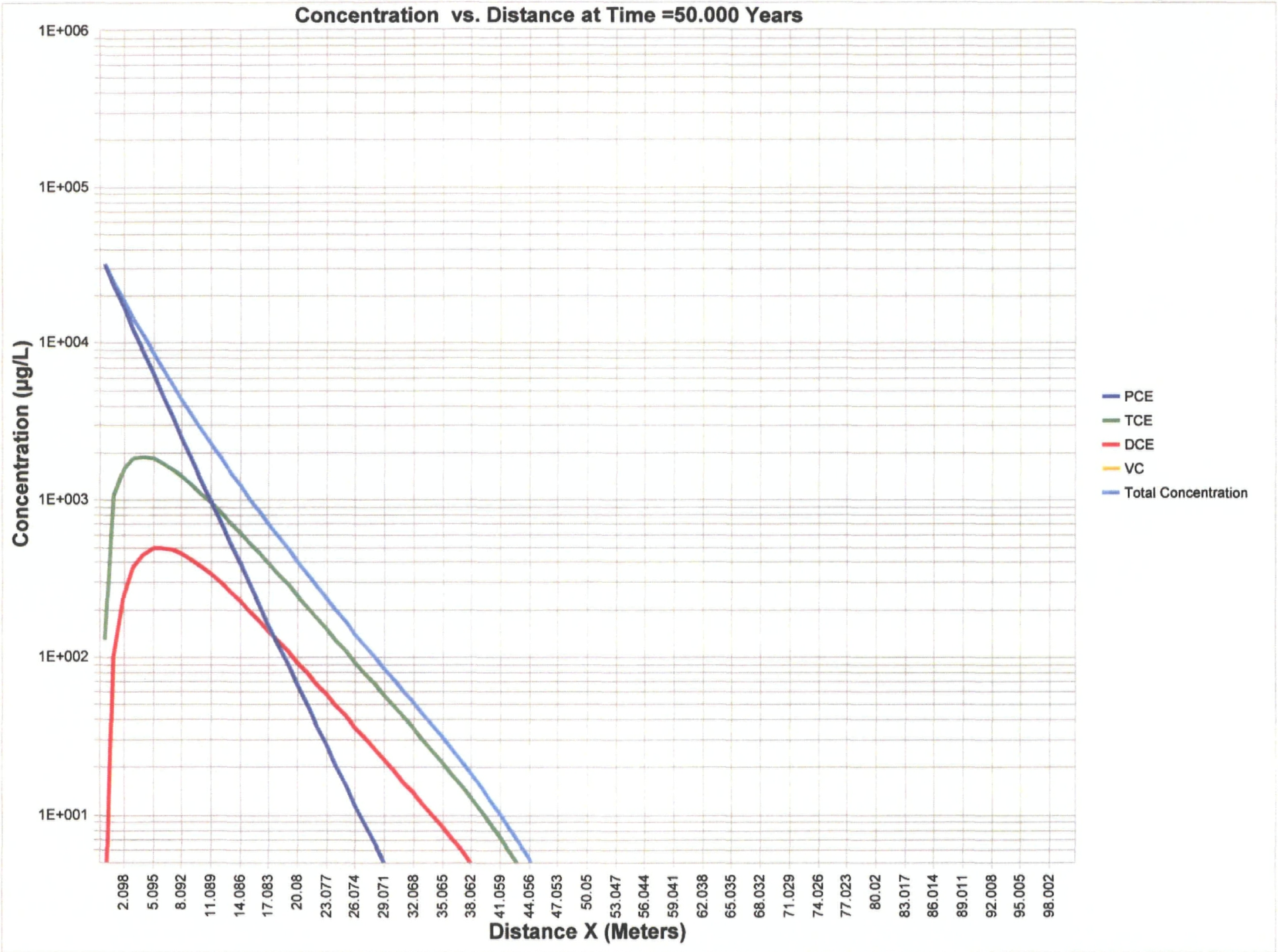
1E+005
1E+004
1E+003
1E+002
1E+001
2.098
5.095
8.092
11.089
14.086
17.083
20.08
23.077
26.074
29.071
32.068
35.065
38.062
41.059
44.056
47.053
50.05
53.047
56.044
59.041
62.038
65.035
68.032
71.029
74.026
77.023
80.02
83.017
86.014
89.011
92.008
95.005
98.002
Distance X
ters)
PCE
TCE
DCE
VC
Total Concentration


Concentration vs. Distance at Time =50.000 Years
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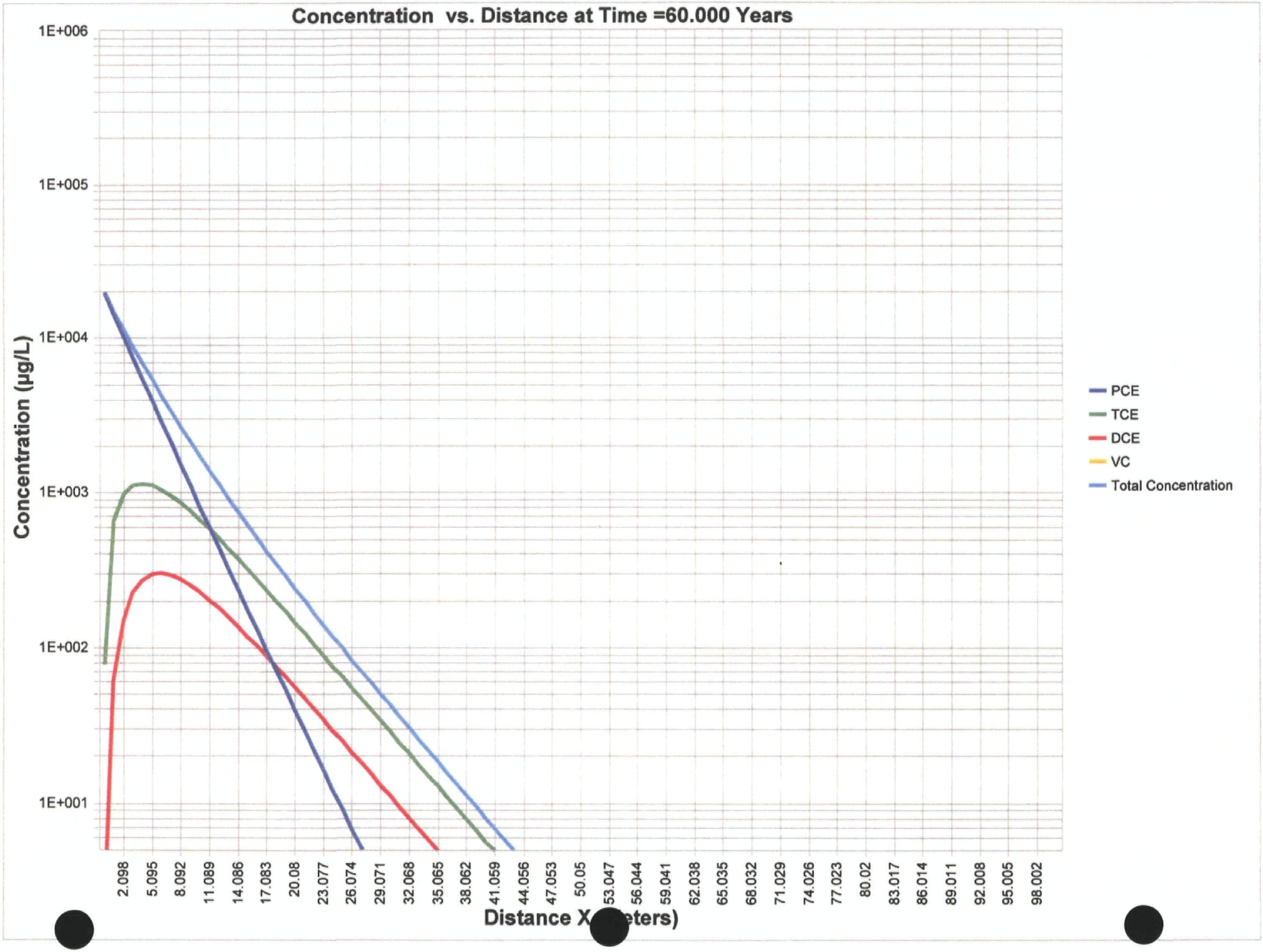
1E+005
1E+004
1E+003
1E+002
1E+001
Concentration (µg/L)
2.098
5.095
8.092
11.089
14.086
17.083
20.08
23.077
26.074
29.071
32.068
35.065
38.062
41.059
44.056
47.053
50.05
53.047
56.044
59.041
62.038
65.035
68.032
71.029
74.026
77.023
80.02
83.017
86.014
89.011
92.008
95.005
98.002
Distance X (Meters)
PCE
TCE
DCE
VC
Total Concentration


Concentration vs. Distance at Time =60.000 Years
Concentration (µg/L)
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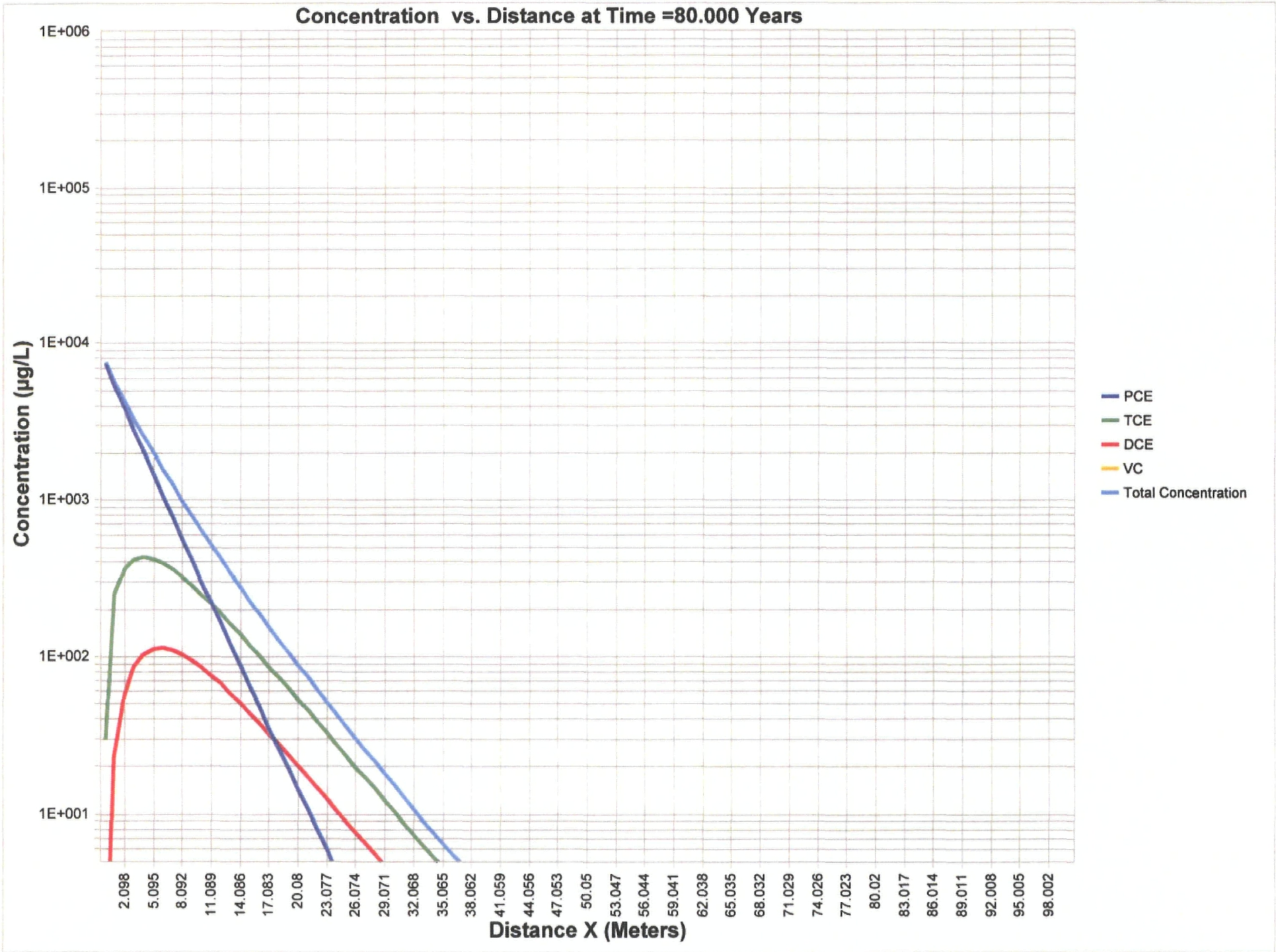
1E+005
1E+004
1E+003
1E+002
1E+001
2.098
5.095
8.092
11.089
14.086
17.083
20.08
23.077
26.074
29.071
32.068
35.065
38.062
41.059
44.056
47.053
50.05
53.047
56.044
59.041
62.038
65.035
68.032
71.029
74.026
77.023
80.02
83.017
86.014
89.011
92.008
95.005
98.002
Distance X
eters)
PCE
TCE
DCE
VC
Total Concentration


Concentration vs. Distance at Time =80.000 Years
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1E+005
1E+004
1E+003
1E+002
1E+001
Concentration (µg/L)
2.098
5.095
8.092
11.089
14.086
17.083
20.08
23.077
26.074
29.071
32.068
35.065
38.062
41.059
44.056
47.053
50.05
53.047
56.044
59.041
62.038
65.035
68.032
71.029
74.026
77.023
80.02
83.017
86.014
89.011
92.008
95.005
98.002
Distance X (Meters)
PCE
TCE
DCE
VC
Total Concentration

Risk Assessment Guidance for Superfund: Tables 1–7

APPENDIX N
TABLE 1
Selection of Potentially Complete Exposure Pathways
St Louis Ordnance Plant, Former Hanley Area, St Louis, Missouri

Scenario Timeframe	Medium	Exposure Medium	Exposure Point	Receptor Population	Receptor Age	Exposure Route	Type of Analysis	Rationale for Selection or Exclusion of Exposure Pathway
Current/Future	Surface Soil (0-2 feet bgs)	On-Site Surface Soil [1] (0-2 feet bgs)	On-Site Surface Soil (0-2 ft bgs)	Industrial Worker	Adult	Dermal Absorption/ Ingestion Inhalation	Quant	
		Off-Site Surface Soil (0-2 feet bgs)	Off-Site Surface Soil (Job Corps) (0-2 ft bgs)	Resident	Adult/Child	Dermal Absorption/ Ingestion Inhalation	None	No samples were collected from areas outside the site fencing adjacent to the Job Corps property, future on-site residential exposures can be used to conservatively represent off-site exposures since off-site receptors are expected to be exposed to lower soil concentrations.
	Groundwater	Off-Site Groundwater	Off-Site Residential Indoor Air	Resident	Adult/Child	Inhalation	Qual	Indoor air samples were collected from the residence immediately downgradient of the site groundwater plume, indoor air concentrations were not of concern.
		On-Site Groundwater at Bldg 219G	Indoor Air at Bldg 219G	Industrial Worker	Adult	Inhalation	None	No VOCs were detected in groundwater within 100 ft of Bldg 219G, the exposure pathway is incomplete.
Future	Subsurface Soil (0-10 feet bgs)	On-Site Subsurface Soil [1] (0-10 feet bgs)	On-Site Subsurface Soil (0-10 ft bgs)	Construction Worker	Adult	Dermal Absorption/ Ingestion Inhalation	Quant	
		On-Site Subsurface Soil (0-10 feet bgs)	On-Site Exposure Units A through L[2] Subsurface Soil (0-10 ft bgs)	Resident	Adult/Child	Dermal Absorption/ Ingestion Inhalation	Quant	