



Laboratory Report of Analysis

To: ResCon Alaska
1175 Oceanview Dr.
Anchorage, AK 99515
(907)317-2473

Report Number: **1135142**

Client Project: **Greer Tank**

Dear Nate Oberlee,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of fourteen (14) days from the date of this report unless other archiving requirements were included in the quote.

If there are any questions about the report or services performed during this project, please call Forest at (907) 562-2343. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,
SGS North America Inc.

Forest Taylor
Project Manager
Forest.Taylor@sgs.com

Date

Print Date: 10/25/2013 1:53:09PM

Case Narrative

SGS Client: **ResCon Alaska**
SGS Project: **1135142**
Project Name/Site: **Greer Tank**
Project Contact: **Nate Oberlee**

Refer to sample receipt form for information on sample condition.

CCV for HBN 1490219 (VMS/13840 (1186575) CCV

8260B - CCV recoveries for 1,1-dichloroethene and carbon disulfide do not meet QC criteria (biased high). These analytes were not detected above the LOQ in the associated samples.

IB for HBN 1491274 (VMS/13854) (1187615) IB

8260B - BFB (surrogate) recovery does not meet QC criteria (biased high). Analytes associated with this surrogate were less than the LOQ.

1138605007(1186571MS) (1186572) MS

8260B - Matrix spike recoveries for 1,1-dichloroethene and carbon disulfide do not meet QC criteria (biased high). Refer to LCS for accuracy information.

1135272009(1187600MS) (1187601) MS

8260B - MS recovery for hexachlorobutadiene does not meet QC criteria. Refer to LCS for accuracy.

1138605007(1186571MSD) (1186573) MSD

8260B - Matrix spike duplicate recoveries for 1,1-dichloroethene and carbon disulfide do not meet QC criteria (biased high). Refer to LCS for accuracy information.

8260B - MS/MSD RPDs for naphthalene and 1,2,3-trichlorobenzene do not meet QC criteria. These analytes were not detected above the LOQ in the original sample.

1135272009(1187600MSD) (1187602) MSD

8260B - MSD recovery for hexachlorobutadiene does not meet QC criteria. Refer to LCS for accuracy.

*QC comments may be associated with the field samples found in this report. When applicable, comments will be applied to associated field samples.

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Laboratory Qualifiers

Enclosed are the analytical results associated with the above work order. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. If you have any questions regarding this report, or if we can be of any other assistance, please contact your SGS Project Manager at 907-562-2343. All work is provided under SGS general terms and conditions (<http://www.sgs.com/terms_and_conditions.htm>), unless other written agreements have been accepted by both parties.

SGS maintains a formal Quality Assurance/Quality Control (QA/QC) program. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request. The laboratory certification numbers are AK00971 (DW Chemistry & Microbiology) & UST-005 (CS) for ADEC and 2944.01 for DOD ELAP/ISO17025 (RCRA methods: 1020A, 1311, 3010A, 3050B, 3520C, 3550C, 5030B, 5035B, 6020, 7470A, 7471B, 8021B, 8082A, 8260B, 8270D, 8270D-SIM, 9040B, 9045C, 9056A, 9060A, AK101 and AK102/103). Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP and, when applicable, other regulatory authorities.

The following descriptors or qualifiers may be found in your report:

*	The analyte has exceeded allowable regulatory or control limits.
!	Surrogate out of control limits.
B	Indicates the analyte is found in a blank associated with the sample.
CCV	Continuing Calibration Verification
CL	Control Limit
D	The analyte concentration is the result of a dilution.
DF	Dilution Factor
DL	Detection Limit (i.e., maximum method detection limit)
E	The analyte result is above the calibrated range.
F	Indicates value that is greater than or equal to the DL
GT	Greater Than
IB	Instrument Blank
ICV	Initial Calibration Verification
J	The quantitation is an estimation.
JL	The analyte was positively identified, but the quantitation is a low estimation.
LCS(D)	Laboratory Control Spike (Duplicate)
LOD	Limit of Detection (i.e., 2xDL)
LOQ	Limit of Quantitation (i.e., reporting or practical quantitation limit)
LT	Less Than
M	A matrix effect was present.
MB	Method Blank
MS(D)	Matrix Spike (Duplicate)
ND	Indicates the analyte is not detected.
Q	QC parameter out of acceptance range.
R	Rejected
RPD	Relative Percent Difference
U	Indicates the analyte was analyzed for but not detected.

Note: Sample summaries which include a result for "Total Solids" have already been adjusted for moisture content. All DRO/RRO analyses are integrated per SOP.

Sample Summary

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Collected</u>	<u>Received</u>	<u>Matrix</u>
MW-120	1135142001	10/14/2013	10/14/2013	Water (Surface, Eff., Ground)
DC-1	1135142002	10/14/2013	10/14/2013	Soil/Solid (dry weight)
Trip Blank	1135142003	10/14/2013	10/14/2013	Soil/Solid (dry weight)
TB-1	1135142004	10/14/2013	10/14/2013	Water (Surface, Eff., Ground)

<u>Method</u>	<u>Method Description</u>
SM21 2540G	Percent Solids SM2540G
SW8260B	VOC 8260 (S) Field Extracted
SW8260B	Volatile Organic Compounds (W) FULL

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Detectable Results Summary

Client Sample ID: **DC-1**
Lab Sample ID: 1135142002
Volatile GC/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Tetrachloroethene	43.8	ug/Kg



Results of MW-120

Client Sample ID: **MW-120**
Client Project ID: **Greer Tank**
Lab Sample ID: 1135142001
Lab Project ID: 1135142

Collection Date: 10/14/13 11:00
Received Date: 10/14/13 12:47
Matrix: Water (Surface, Eff., Ground)
Solids (%):

Results by Volatile GC/MS

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
1,1,1,2-Tetrachloroethane	0.500 U	0.500	0.150	ug/L	1		10/24/13 18:11
1,1,1-Trichloroethane	1.00 U	1.00	0.310	ug/L	1		10/24/13 18:11
1,1,2,2-Tetrachloroethane	0.500 U	0.500	0.150	ug/L	1		10/24/13 18:11
1,1,2-Trichloroethane	1.00 U	1.00	0.310	ug/L	1		10/24/13 18:11
1,1-Dichloroethane	1.00 U	1.00	0.310	ug/L	1		10/24/13 18:11
1,1-Dichloroethene	1.00 U	1.00	0.310	ug/L	1		10/24/13 18:11
1,1-Dichloropropene	1.00 U	1.00	0.310	ug/L	1		10/24/13 18:11
1,2,3-Trichlorobenzene	1.00 U	1.00	0.310	ug/L	1		10/24/13 18:11
1,2,3-Trichloropropane	1.00 U	1.00	0.310	ug/L	1		10/24/13 18:11
1,2,4-Trichlorobenzene	1.00 U	1.00	0.310	ug/L	1		10/24/13 18:11
1,2,4-Trimethylbenzene	1.00 U	1.00	0.310	ug/L	1		10/24/13 18:11
1,2-Dibromo-3-chloropropane	2.00 U	2.00	0.620	ug/L	1		10/24/13 18:11
1,2-Dibromoethane	1.00 U	1.00	0.310	ug/L	1		10/24/13 18:11
1,2-Dichlorobenzene	1.00 U	1.00	0.310	ug/L	1		10/24/13 18:11
1,2-Dichloroethane	0.500 U	0.500	0.150	ug/L	1		10/24/13 18:11
1,2-Dichloropropane	1.00 U	1.00	0.310	ug/L	1		10/24/13 18:11
1,3,5-Trimethylbenzene	1.00 U	1.00	0.310	ug/L	1		10/24/13 18:11
1,3-Dichlorobenzene	1.00 U	1.00	0.310	ug/L	1		10/24/13 18:11
1,3-Dichloropropane	0.400 U	0.400	0.120	ug/L	1		10/24/13 18:11
1,4-Dichlorobenzene	0.500 U	0.500	0.150	ug/L	1		10/24/13 18:11
2,2-Dichloropropane	1.00 U	1.00	0.310	ug/L	1		10/24/13 18:11
2-Butanone (MEK)	10.0 U	10.0	3.10	ug/L	1		10/24/13 18:11
2-Chlorotoluene	1.00 U	1.00	0.310	ug/L	1		10/24/13 18:11
2-Hexanone	10.0 U	10.0	3.10	ug/L	1		10/24/13 18:11
4-Chlorotoluene	1.00 U	1.00	0.310	ug/L	1		10/24/13 18:11
4-Isopropyltoluene	1.00 U	1.00	0.310	ug/L	1		10/24/13 18:11
4-Methyl-2-pentanone (MIBK)	10.0 U	10.0	3.10	ug/L	1		10/24/13 18:11
Benzene	0.400 U	0.400	0.120	ug/L	1		10/24/13 18:11
Bromobenzene	1.00 U	1.00	0.310	ug/L	1		10/24/13 18:11
Bromochloromethane	1.00 U	1.00	0.310	ug/L	1		10/24/13 18:11
Bromodichloromethane	0.500 U	0.500	0.150	ug/L	1		10/24/13 18:11
Bromoform	1.00 U	1.00	0.310	ug/L	1		10/24/13 18:11
Bromomethane	3.00 U	3.00	0.940	ug/L	1		10/24/13 18:11
Carbon disulfide	2.00 U	2.00	0.620	ug/L	1		10/24/13 18:11
Carbon tetrachloride	1.00 U	1.00	0.310	ug/L	1		10/24/13 18:11
Chlorobenzene	0.500 U	0.500	0.150	ug/L	1		10/24/13 18:11

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Results of MW-120

Client Sample ID: **MW-120**
Client Project ID: **Greer Tank**
Lab Sample ID: 1135142001
Lab Project ID: 1135142

Collection Date: 10/14/13 11:00
Received Date: 10/14/13 12:47
Matrix: Water (Surface, Eff., Ground)
Solids (%):

Results by Volatile GC/MS

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Chloroethane	1.00 U	1.00	0.310	ug/L	1		10/24/13 18:11
Chloroform	1.00 U	1.00	0.300	ug/L	1		10/24/13 18:11
Chloromethane	1.00 U	1.00	0.310	ug/L	1		10/24/13 18:11
cis-1,2-Dichloroethene	1.00 U	1.00	0.310	ug/L	1		10/24/13 18:11
cis-1,3-Dichloropropene	0.500 U	0.500	0.150	ug/L	1		10/24/13 18:11
Dibromochloromethane	0.500 U	0.500	0.150	ug/L	1		10/24/13 18:11
Dibromomethane	1.00 U	1.00	0.310	ug/L	1		10/24/13 18:11
Dichlorodifluoromethane	1.00 U	1.00	0.310	ug/L	1		10/24/13 18:11
Ethylbenzene	1.00 U	1.00	0.310	ug/L	1		10/24/13 18:11
Hexachlorobutadiene	1.00 U	1.00	0.310	ug/L	1		10/24/13 18:11
Isopropylbenzene (Cumene)	1.00 U	1.00	0.310	ug/L	1		10/24/13 18:11
Methyl-t-butyl ether	5.00 U	5.00	1.50	ug/L	1		10/24/13 18:11
Methylene chloride	5.00 U	5.00	1.00	ug/L	1		10/24/13 18:11
n-Butylbenzene	1.00 U	1.00	0.310	ug/L	1		10/24/13 18:11
n-Propylbenzene	1.00 U	1.00	0.310	ug/L	1		10/24/13 18:11
Naphthalene	2.00 U	2.00	0.620	ug/L	1		10/24/13 18:11
o-Xylene	1.00 U	1.00	0.310	ug/L	1		10/24/13 18:11
P & M -Xylene	2.00 U	2.00	0.620	ug/L	1		10/24/13 18:11
sec-Butylbenzene	1.00 U	1.00	0.310	ug/L	1		10/24/13 18:11
Styrene	1.00 U	1.00	0.310	ug/L	1		10/24/13 18:11
tert-Butylbenzene	1.00 U	1.00	0.310	ug/L	1		10/24/13 18:11
Tetrachloroethene	1.00 U	1.00	0.310	ug/L	1		10/24/13 18:11
Toluene	1.00 U	1.00	0.310	ug/L	1		10/24/13 18:11
trans-1,2-Dichloroethene	1.00 U	1.00	0.310	ug/L	1		10/24/13 18:11
trans-1,3-Dichloropropene	1.00 U	1.00	0.310	ug/L	1		10/24/13 18:11
Trichloroethene	1.00 U	1.00	0.310	ug/L	1		10/24/13 18:11
Trichlorofluoromethane	1.00 U	1.00	0.310	ug/L	1		10/24/13 18:11
Vinyl chloride	1.00 U	1.00	0.310	ug/L	1		10/24/13 18:11
Xylenes (total)	3.00 U	3.00	0.940	ug/L	1		10/24/13 18:11
Surrogates							
1,2-Dichloroethane-D4	101	70-120		%	1		10/24/13 18:11
4-Bromofluorobenzene	103	75-120		%	1		10/24/13 18:11
Toluene-d8	98.2	85-120		%	1		10/24/13 18:11

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Results of MW-120

Client Sample ID: **MW-120**
Client Project ID: **Greer Tank**
Lab Sample ID: 1135142001
Lab Project ID: 1135142

Collection Date: 10/14/13 11:00
Received Date: 10/14/13 12:47
Matrix: Water (Surface, Eff., Ground)
Solids (%):

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS13857
Analytical Method: SW8260B
Analyst: SCL
Analytical Date/Time: 10/24/13 18:11
Container ID: 1135142001-A

Prep Batch: VXX25387
Prep Method: SW5030B
Prep Date/Time: 10/23/13 07:32
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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Results of DC-1

Client Sample ID: **DC-1**
Client Project ID: **Greer Tank**
Lab Sample ID: 1135142002
Lab Project ID: 1135142

Collection Date: 10/14/13 11:30
Received Date: 10/14/13 12:47
Matrix: Soil/Solid (dry weight)
Solids (%): 84.6

Results by Volatile GC/MS

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
1,1,1,2-Tetrachloroethane	28.0 U	28.0	8.75	ug/Kg	1		10/18/13 18:55
1,1,1-Trichloroethane	28.0 U	28.0	8.75	ug/Kg	1		10/18/13 18:55
1,1,2,2-Tetrachloroethane	56.1 U	56.1	16.8	ug/Kg	1		10/18/13 18:55
1,1,2-Trichloroethane	28.0 U	28.0	8.75	ug/Kg	1		10/18/13 18:55
1,1-Dichloroethane	28.0 U	28.0	8.75	ug/Kg	1		10/18/13 18:55
1,1-Dichloroethene	28.0 U	28.0	8.75	ug/Kg	1		10/18/13 18:55
1,1-Dichloropropene	28.0 U	28.0	8.75	ug/Kg	1		10/18/13 18:55
1,2,3-Trichlorobenzene	56.1 U	56.1	16.8	ug/Kg	1		10/18/13 18:55
1,2,3-Trichloropropane	28.0 U	28.0	8.75	ug/Kg	1		10/18/13 18:55
1,2,4-Trichlorobenzene	28.0 U	28.0	8.75	ug/Kg	1		10/18/13 18:55
1,2,4-Trimethylbenzene	56.1 U	56.1	16.8	ug/Kg	1		10/18/13 18:55
1,2-Dibromo-3-chloropropane	112 U	112	34.8	ug/Kg	1		10/18/13 18:55
1,2-Dibromoethane	28.0 U	28.0	8.75	ug/Kg	1		10/18/13 18:55
1,2-Dichlorobenzene	28.0 U	28.0	8.75	ug/Kg	1		10/18/13 18:55
1,2-Dichloroethane	28.0 U	28.0	8.75	ug/Kg	1		10/18/13 18:55
1,2-Dichloropropane	28.0 U	28.0	8.75	ug/Kg	1		10/18/13 18:55
1,3,5-Trimethylbenzene	28.0 U	28.0	8.75	ug/Kg	1		10/18/13 18:55
1,3-Dichlorobenzene	28.0 U	28.0	8.75	ug/Kg	1		10/18/13 18:55
1,3-Dichloropropane	28.0 U	28.0	8.75	ug/Kg	1		10/18/13 18:55
1,4-Dichlorobenzene	28.0 U	28.0	8.75	ug/Kg	1		10/18/13 18:55
2,2-Dichloropropane	28.0 U	28.0	8.75	ug/Kg	1		10/18/13 18:55
2-Butanone (MEK)	280 U	280	87.5	ug/Kg	1		10/18/13 18:55
2-Chlorotoluene	28.0 U	28.0	8.75	ug/Kg	1		10/18/13 18:55
2-Hexanone	280 U	280	87.5	ug/Kg	1		10/18/13 18:55
4-Chlorotoluene	28.0 U	28.0	8.75	ug/Kg	1		10/18/13 18:55
4-Isopropyltoluene	28.0 U	28.0	8.75	ug/Kg	1		10/18/13 18:55
4-Methyl-2-pentanone (MIBK)	280 U	280	87.5	ug/Kg	1		10/18/13 18:55
Benzene	14.0 U	14.0	4.38	ug/Kg	1		10/18/13 18:55
Bromobenzene	28.0 U	28.0	8.75	ug/Kg	1		10/18/13 18:55
Bromochloromethane	28.0 U	28.0	8.75	ug/Kg	1		10/18/13 18:55
Bromodichloromethane	28.0 U	28.0	8.75	ug/Kg	1		10/18/13 18:55
Bromoform	28.0 U	28.0	8.75	ug/Kg	1		10/18/13 18:55
Bromomethane	224 U	224	69.6	ug/Kg	1		10/18/13 18:55
Carbon disulfide	112 U	112	34.8	ug/Kg	1		10/18/13 18:55
Carbon tetrachloride	28.0 U	28.0	8.75	ug/Kg	1		10/18/13 18:55
Chlorobenzene	28.0 U	28.0	8.75	ug/Kg	1		10/18/13 18:55

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Results of DC-1

Client Sample ID: **DC-1**
 Client Project ID: **Greer Tank**
 Lab Sample ID: 1135142002
 Lab Project ID: 1135142

Collection Date: 10/14/13 11:30
 Received Date: 10/14/13 12:47
 Matrix: Soil/Solid (dry weight)
 Solids (%): 84.6

Results by Volatile GC/MS

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Chloroethane	224 U	224	69.6	ug/Kg	1		10/18/13 18:55
Chloroform	28.0 U	28.0	8.75	ug/Kg	1		10/18/13 18:55
Chloromethane	28.0 U	28.0	8.75	ug/Kg	1		10/18/13 18:55
cis-1,2-Dichloroethene	28.0 U	28.0	8.75	ug/Kg	1		10/18/13 18:55
cis-1,3-Dichloropropene	28.0 U	28.0	8.75	ug/Kg	1		10/18/13 18:55
Dibromochloromethane	28.0 U	28.0	8.75	ug/Kg	1		10/18/13 18:55
Dibromomethane	28.0 U	28.0	8.75	ug/Kg	1		10/18/13 18:55
Dichlorodifluoromethane	56.1 U	56.1	16.8	ug/Kg	1		10/18/13 18:55
Ethylbenzene	28.0 U	28.0	8.75	ug/Kg	1		10/18/13 18:55
Hexachlorobutadiene	56.1 U	56.1	16.8	ug/Kg	1		10/18/13 18:55
Isopropylbenzene (Cumene)	28.0 U	28.0	8.75	ug/Kg	1		10/18/13 18:55
Methyl-t-butyl ether	112 U	112	34.8	ug/Kg	1		10/18/13 18:55
Methylene chloride	112 U	112	34.8	ug/Kg	1		10/18/13 18:55
n-Butylbenzene	28.0 U	28.0	8.75	ug/Kg	1		10/18/13 18:55
n-Propylbenzene	28.0 U	28.0	8.75	ug/Kg	1		10/18/13 18:55
Naphthalene	56.1 U	56.1	16.8	ug/Kg	1		10/18/13 18:55
o-Xylene	28.0 U	28.0	8.75	ug/Kg	1		10/18/13 18:55
P & M -Xylene	56.1 U	56.1	16.8	ug/Kg	1		10/18/13 18:55
sec-Butylbenzene	28.0 U	28.0	8.75	ug/Kg	1		10/18/13 18:55
Styrene	28.0 U	28.0	8.75	ug/Kg	1		10/18/13 18:55
tert-Butylbenzene	28.0 U	28.0	8.75	ug/Kg	1		10/18/13 18:55
Tetrachloroethene	43.8	14.0	4.38	ug/Kg	1		10/18/13 18:55
Toluene	28.0 U	28.0	8.75	ug/Kg	1		10/18/13 18:55
trans-1,2-Dichloroethene	28.0 U	28.0	8.75	ug/Kg	1		10/18/13 18:55
trans-1,3-Dichloropropene	28.0 U	28.0	8.75	ug/Kg	1		10/18/13 18:55
Trichloroethene	14.0 U	14.0	4.38	ug/Kg	1		10/18/13 18:55
Trichlorofluoromethane	56.1 U	56.1	16.8	ug/Kg	1		10/18/13 18:55
Vinyl chloride	28.0 U	28.0	8.75	ug/Kg	1		10/18/13 18:55
Xylenes (total)	84.1 U	84.1	25.6	ug/Kg	1		10/18/13 18:55
Surrogates							
1,2-Dichloroethane-D4	111	79-118		%	1		10/18/13 18:55
4-Bromofluorobenzene	122	67-138		%	1		10/18/13 18:55
Toluene-d8	107	85-115		%	1		10/18/13 18:55

Print Date: 10/25/2013 1:53:24PM



Results of DC-1

Client Sample ID: **DC-1**
Client Project ID: **Greer Tank**
Lab Sample ID: 1135142002
Lab Project ID: 1135142

Collection Date: 10/14/13 11:30
Received Date: 10/14/13 12:47
Matrix: Soil/Solid (dry weight)
Solids (%): 84.6

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS13840
Analytical Method: SW8260B
Analyst: HM
Analytical Date/Time: 10/18/13 18:55
Container ID: 1135142002-B

Prep Batch: VXX25361
Prep Method: SW5035A
Prep Date/Time: 10/14/13 11:30
Prep Initial Wt./Vol.: 78.074 g
Prep Extract Vol: 37.0397 mL

Print Date: 10/25/2013 1:53:24PM



Results of Trip Blank

Client Sample ID: **Trip Blank**
Client Project ID: **Greer Tank**
Lab Sample ID: 1135142003
Lab Project ID: 1135142

Collection Date: 10/14/13 11:30
Received Date: 10/14/13 12:47
Matrix: Soil/Solid (dry weight)
Solids (%):

Results by Volatile GC/MS

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
1,1,1,2-Tetrachloroethane	25.1 U	25.1	7.83	ug/Kg	1		10/23/13 15:22
1,1,1-Trichloroethane	25.1 U	25.1	7.83	ug/Kg	1		10/23/13 15:22
1,1,2,2-Tetrachloroethane	50.2 U	50.2	15.1	ug/Kg	1		10/23/13 15:22
1,1,2-Trichloroethane	25.1 U	25.1	7.83	ug/Kg	1		10/23/13 15:22
1,1-Dichloroethane	25.1 U	25.1	7.83	ug/Kg	1		10/23/13 15:22
1,1-Dichloroethene	25.1 U	25.1	7.83	ug/Kg	1		10/23/13 15:22
1,1-Dichloropropene	25.1 U	25.1	7.83	ug/Kg	1		10/23/13 15:22
1,2,3-Trichlorobenzene	50.2 U	50.2	15.1	ug/Kg	1		10/23/13 15:22
1,2,3-Trichloropropane	25.1 U	25.1	7.83	ug/Kg	1		10/23/13 15:22
1,2,4-Trichlorobenzene	25.1 U	25.1	7.83	ug/Kg	1		10/23/13 15:22
1,2,4-Trimethylbenzene	50.2 U	50.2	15.1	ug/Kg	1		10/23/13 15:22
1,2-Dibromo-3-chloropropane	100 U	100	31.1	ug/Kg	1		10/23/13 15:22
1,2-Dibromoethane	25.1 U	25.1	7.83	ug/Kg	1		10/23/13 15:22
1,2-Dichlorobenzene	25.1 U	25.1	7.83	ug/Kg	1		10/23/13 15:22
1,2-Dichloroethane	25.1 U	25.1	7.83	ug/Kg	1		10/23/13 15:22
1,2-Dichloropropane	25.1 U	25.1	7.83	ug/Kg	1		10/23/13 15:22
1,3,5-Trimethylbenzene	25.1 U	25.1	7.83	ug/Kg	1		10/23/13 15:22
1,3-Dichlorobenzene	25.1 U	25.1	7.83	ug/Kg	1		10/23/13 15:22
1,3-Dichloropropane	25.1 U	25.1	7.83	ug/Kg	1		10/23/13 15:22
1,4-Dichlorobenzene	25.1 U	25.1	7.83	ug/Kg	1		10/23/13 15:22
2,2-Dichloropropane	25.1 U	25.1	7.83	ug/Kg	1		10/23/13 15:22
2-Butanone (MEK)	251 U	251	78.3	ug/Kg	1		10/23/13 15:22
2-Chlorotoluene	25.1 U	25.1	7.83	ug/Kg	1		10/23/13 15:22
2-Hexanone	251 U	251	78.3	ug/Kg	1		10/23/13 15:22
4-Chlorotoluene	25.1 U	25.1	7.83	ug/Kg	1		10/23/13 15:22
4-Isopropyltoluene	25.1 U	25.1	7.83	ug/Kg	1		10/23/13 15:22
4-Methyl-2-pentanone (MIBK)	251 U	251	78.3	ug/Kg	1		10/23/13 15:22
Benzene	12.5 U	12.5	3.91	ug/Kg	1		10/23/13 15:22
Bromobenzene	25.1 U	25.1	7.83	ug/Kg	1		10/23/13 15:22
Bromochloromethane	25.1 U	25.1	7.83	ug/Kg	1		10/23/13 15:22
Bromodichloromethane	25.1 U	25.1	7.83	ug/Kg	1		10/23/13 15:22
Bromoform	25.1 U	25.1	7.83	ug/Kg	1		10/23/13 15:22
Bromomethane	201 U	201	62.2	ug/Kg	1		10/23/13 15:22
Carbon disulfide	100 U	100	31.1	ug/Kg	1		10/23/13 15:22
Carbon tetrachloride	25.1 U	25.1	7.83	ug/Kg	1		10/23/13 15:22
Chlorobenzene	25.1 U	25.1	7.83	ug/Kg	1		10/23/13 15:22

Print Date: 10/25/2013 1:53:24PM



Results of Trip Blank

Client Sample ID: **Trip Blank**
Client Project ID: **Greer Tank**
Lab Sample ID: 1135142003
Lab Project ID: 1135142

Collection Date: 10/14/13 11:30
Received Date: 10/14/13 12:47
Matrix: Soil/Solid (dry weight)
Solids (%):

Results by Volatile GC/MS

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Chloroethane	201 U	201	62.2	ug/Kg	1		10/23/13 15:22
Chloroform	25.1 U	25.1	7.83	ug/Kg	1		10/23/13 15:22
Chloromethane	25.1 U	25.1	7.83	ug/Kg	1		10/23/13 15:22
cis-1,2-Dichloroethene	25.1 U	25.1	7.83	ug/Kg	1		10/23/13 15:22
cis-1,3-Dichloropropene	25.1 U	25.1	7.83	ug/Kg	1		10/23/13 15:22
Dibromochloromethane	25.1 U	25.1	7.83	ug/Kg	1		10/23/13 15:22
Dibromomethane	25.1 U	25.1	7.83	ug/Kg	1		10/23/13 15:22
Dichlorodifluoromethane	50.2 U	50.2	15.1	ug/Kg	1		10/23/13 15:22
Ethylbenzene	25.1 U	25.1	7.83	ug/Kg	1		10/23/13 15:22
Hexachlorobutadiene	50.2 U	50.2	15.1	ug/Kg	1		10/23/13 15:22
Isopropylbenzene (Cumene)	25.1 U	25.1	7.83	ug/Kg	1		10/23/13 15:22
Methyl-t-butyl ether	100 U	100	31.1	ug/Kg	1		10/23/13 15:22
Methylene chloride	100 U	100	31.1	ug/Kg	1		10/23/13 15:22
n-Butylbenzene	25.1 U	25.1	7.83	ug/Kg	1		10/23/13 15:22
n-Propylbenzene	25.1 U	25.1	7.83	ug/Kg	1		10/23/13 15:22
Naphthalene	50.2 U	50.2	15.1	ug/Kg	1		10/23/13 15:22
o-Xylene	25.1 U	25.1	7.83	ug/Kg	1		10/23/13 15:22
P & M -Xylene	50.2 U	50.2	15.1	ug/Kg	1		10/23/13 15:22
sec-Butylbenzene	25.1 U	25.1	7.83	ug/Kg	1		10/23/13 15:22
Styrene	25.1 U	25.1	7.83	ug/Kg	1		10/23/13 15:22
tert-Butylbenzene	25.1 U	25.1	7.83	ug/Kg	1		10/23/13 15:22
Tetrachloroethene	12.5 U	12.5	3.91	ug/Kg	1		10/23/13 15:22
Toluene	25.1 U	25.1	7.83	ug/Kg	1		10/23/13 15:22
trans-1,2-Dichloroethene	25.1 U	25.1	7.83	ug/Kg	1		10/23/13 15:22
trans-1,3-Dichloropropene	25.1 U	25.1	7.83	ug/Kg	1		10/23/13 15:22
Trichloroethene	12.5 U	12.5	3.91	ug/Kg	1		10/23/13 15:22
Trichlorofluoromethane	50.2 U	50.2	15.1	ug/Kg	1		10/23/13 15:22
Vinyl chloride	25.1 U	25.1	7.83	ug/Kg	1		10/23/13 15:22
Xylenes (total)	100 U	100	31.1	ug/Kg	1		10/23/13 15:22
Surrogates							
1,2-Dichloroethane-D4	87.4	79-118		%	1		10/23/13 15:22
4-Bromofluorobenzene	112	67-138		%	1		10/23/13 15:22
Toluene-d8	98.7	85-115		%	1		10/23/13 15:22

Print Date: 10/25/2013 1:53:24PM



Results of Trip Blank

Client Sample ID: **Trip Blank**
Client Project ID: **Greer Tank**
Lab Sample ID: 1135142003
Lab Project ID: 1135142

Collection Date: 10/14/13 11:30
Received Date: 10/14/13 12:47
Matrix: Soil/Solid (dry weight)
Solids (%):

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS13854
Analytical Method: SW8260B
Analyst: HM
Analytical Date/Time: 10/23/13 15:22
Container ID: 1135142003-A

Prep Batch: VXX25384
Prep Method: SW5035A
Prep Date/Time: 10/14/13 11:30
Prep Initial Wt./Vol.: 49.81 g
Prep Extract Vol: 25 mL

Print Date: 10/25/2013 1:53:24PM



Results of TB-1

Client Sample ID: **TB-1**
Client Project ID: **Greer Tank**
Lab Sample ID: 1135142004
Lab Project ID: 1135142

Collection Date: 10/14/13 11:00
Received Date: 10/14/13 12:47
Matrix: Water (Surface, Eff., Ground)
Solids (%):

Results by Volatile GC/MS

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
1,1,1,2-Tetrachloroethane	0.500 U	0.500	0.150	ug/L	1		10/24/13 15:51
1,1,1-Trichloroethane	1.00 U	1.00	0.310	ug/L	1		10/24/13 15:51
1,1,2,2-Tetrachloroethane	0.500 U	0.500	0.150	ug/L	1		10/24/13 15:51
1,1,2-Trichloroethane	1.00 U	1.00	0.310	ug/L	1		10/24/13 15:51
1,1-Dichloroethane	1.00 U	1.00	0.310	ug/L	1		10/24/13 15:51
1,1-Dichloroethene	1.00 U	1.00	0.310	ug/L	1		10/24/13 15:51
1,1-Dichloropropene	1.00 U	1.00	0.310	ug/L	1		10/24/13 15:51
1,2,3-Trichlorobenzene	1.00 U	1.00	0.310	ug/L	1		10/24/13 15:51
1,2,3-Trichloropropane	1.00 U	1.00	0.310	ug/L	1		10/24/13 15:51
1,2,4-Trichlorobenzene	1.00 U	1.00	0.310	ug/L	1		10/24/13 15:51
1,2,4-Trimethylbenzene	1.00 U	1.00	0.310	ug/L	1		10/24/13 15:51
1,2-Dibromo-3-chloropropane	2.00 U	2.00	0.620	ug/L	1		10/24/13 15:51
1,2-Dibromoethane	1.00 U	1.00	0.310	ug/L	1		10/24/13 15:51
1,2-Dichlorobenzene	1.00 U	1.00	0.310	ug/L	1		10/24/13 15:51
1,2-Dichloroethane	0.500 U	0.500	0.150	ug/L	1		10/24/13 15:51
1,2-Dichloropropane	1.00 U	1.00	0.310	ug/L	1		10/24/13 15:51
1,3,5-Trimethylbenzene	1.00 U	1.00	0.310	ug/L	1		10/24/13 15:51
1,3-Dichlorobenzene	1.00 U	1.00	0.310	ug/L	1		10/24/13 15:51
1,3-Dichloropropane	0.400 U	0.400	0.120	ug/L	1		10/24/13 15:51
1,4-Dichlorobenzene	0.500 U	0.500	0.150	ug/L	1		10/24/13 15:51
2,2-Dichloropropane	1.00 U	1.00	0.310	ug/L	1		10/24/13 15:51
2-Butanone (MEK)	10.0 U	10.0	3.10	ug/L	1		10/24/13 15:51
2-Chlorotoluene	1.00 U	1.00	0.310	ug/L	1		10/24/13 15:51
2-Hexanone	10.0 U	10.0	3.10	ug/L	1		10/24/13 15:51
4-Chlorotoluene	1.00 U	1.00	0.310	ug/L	1		10/24/13 15:51
4-Isopropyltoluene	1.00 U	1.00	0.310	ug/L	1		10/24/13 15:51
4-Methyl-2-pentanone (MIBK)	10.0 U	10.0	3.10	ug/L	1		10/24/13 15:51
Benzene	0.400 U	0.400	0.120	ug/L	1		10/24/13 15:51
Bromobenzene	1.00 U	1.00	0.310	ug/L	1		10/24/13 15:51
Bromochloromethane	1.00 U	1.00	0.310	ug/L	1		10/24/13 15:51
Bromodichloromethane	0.500 U	0.500	0.150	ug/L	1		10/24/13 15:51
Bromoform	1.00 U	1.00	0.310	ug/L	1		10/24/13 15:51
Bromomethane	3.00 U	3.00	0.940	ug/L	1		10/24/13 15:51
Carbon disulfide	2.00 U	2.00	0.620	ug/L	1		10/24/13 15:51
Carbon tetrachloride	1.00 U	1.00	0.310	ug/L	1		10/24/13 15:51
Chlorobenzene	0.500 U	0.500	0.150	ug/L	1		10/24/13 15:51

Print Date: 10/25/2013 1:53:24PM



Results of TB-1

Client Sample ID: **TB-1**
 Client Project ID: **Greer Tank**
 Lab Sample ID: 1135142004
 Lab Project ID: 1135142

Collection Date: 10/14/13 11:00
 Received Date: 10/14/13 12:47
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):

Results by Volatile GC/MS

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Chloroethane	1.00 U	1.00	0.310	ug/L	1		10/24/13 15:51
Chloroform	1.00 U	1.00	0.300	ug/L	1		10/24/13 15:51
Chloromethane	1.00 U	1.00	0.310	ug/L	1		10/24/13 15:51
cis-1,2-Dichloroethene	1.00 U	1.00	0.310	ug/L	1		10/24/13 15:51
cis-1,3-Dichloropropene	0.500 U	0.500	0.150	ug/L	1		10/24/13 15:51
Dibromochloromethane	0.500 U	0.500	0.150	ug/L	1		10/24/13 15:51
Dibromomethane	1.00 U	1.00	0.310	ug/L	1		10/24/13 15:51
Dichlorodifluoromethane	1.00 U	1.00	0.310	ug/L	1		10/24/13 15:51
Ethylbenzene	1.00 U	1.00	0.310	ug/L	1		10/24/13 15:51
Hexachlorobutadiene	1.00 U	1.00	0.310	ug/L	1		10/24/13 15:51
Isopropylbenzene (Cumene)	1.00 U	1.00	0.310	ug/L	1		10/24/13 15:51
Methyl-t-butyl ether	5.00 U	5.00	1.50	ug/L	1		10/24/13 15:51
Methylene chloride	5.00 U	5.00	1.00	ug/L	1		10/24/13 15:51
n-Butylbenzene	1.00 U	1.00	0.310	ug/L	1		10/24/13 15:51
n-Propylbenzene	1.00 U	1.00	0.310	ug/L	1		10/24/13 15:51
Naphthalene	2.00 U	2.00	0.620	ug/L	1		10/24/13 15:51
o-Xylene	1.00 U	1.00	0.310	ug/L	1		10/24/13 15:51
P & M -Xylene	2.00 U	2.00	0.620	ug/L	1		10/24/13 15:51
sec-Butylbenzene	1.00 U	1.00	0.310	ug/L	1		10/24/13 15:51
Styrene	1.00 U	1.00	0.310	ug/L	1		10/24/13 15:51
tert-Butylbenzene	1.00 U	1.00	0.310	ug/L	1		10/24/13 15:51
Tetrachloroethene	1.00 U	1.00	0.310	ug/L	1		10/24/13 15:51
Toluene	1.00 U	1.00	0.310	ug/L	1		10/24/13 15:51
trans-1,2-Dichloroethene	1.00 U	1.00	0.310	ug/L	1		10/24/13 15:51
trans-1,3-Dichloropropene	1.00 U	1.00	0.310	ug/L	1		10/24/13 15:51
Trichloroethene	1.00 U	1.00	0.310	ug/L	1		10/24/13 15:51
Trichlorofluoromethane	1.00 U	1.00	0.310	ug/L	1		10/24/13 15:51
Vinyl chloride	1.00 U	1.00	0.310	ug/L	1		10/24/13 15:51
Xylenes (total)	3.00 U	3.00	0.940	ug/L	1		10/24/13 15:51
Surrogates							
1,2-Dichloroethane-D4	99	70-120		%	1		10/24/13 15:51
4-Bromofluorobenzene	101	75-120		%	1		10/24/13 15:51
Toluene-d8	97.2	85-120		%	1		10/24/13 15:51

Print Date: 10/25/2013 1:53:24PM



Results of TB-1

Client Sample ID: **TB-1**
Client Project ID: **Greer Tank**
Lab Sample ID: 1135142004
Lab Project ID: 1135142

Collection Date: 10/14/13 11:00
Received Date: 10/14/13 12:47
Matrix: Water (Surface, Eff., Ground)
Solids (%):

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS13857
Analytical Method: SW8260B
Analyst: SCL
Analytical Date/Time: 10/24/13 15:51
Container ID: 1135142004-A

Prep Batch: VXX25387
Prep Method: SW5030B
Prep Date/Time: 10/23/13 07:32
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 10/25/2013 1:53:24PM



Method Blank

Blank ID: MB for HBN 1489767 [SPT/9182]

Blank Lab ID: 1186200

QC for Samples:

1135142002

Matrix: Soil/Solid (dry weight)

Results by SM21 2540G

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
Total Solids	100			%

Batch Information

Analytical Batch: SPT9182

Analytical Method: SM21 2540G

Instrument:

Analyst: CDE

Analytical Date/Time: 10/16/2013 6:15:00PM

Print Date: 10/25/2013 1:53:30PM



Duplicate Sample Summary

Original Sample ID: 1135141040

Duplicate Sample ID: 1186201

QC for Samples:

1135142002

Analysis Date: 10/16/2013 18:15

Matrix: Soil/Solid (dry weight)

Results by SM21 2540G

<u>NAME</u>	<u>Original ()</u>	<u>Duplicate ()</u>	<u>RPD (%)</u>	<u>RPD CL</u>
Total Solids	85.4	84.8	0.68	15.00

Batch Information

Analytical Batch: SPT9182

Analytical Method: SM21 2540G

Instrument:

Analyst: CDE

Print Date: 10/25/2013 1:53:31PM



Method Blank

Blank ID: MB for HBN 1490218 [VXX/25361]

Blank Lab ID: 1186569

QC for Samples:

1135142002

Matrix: Soil/Solid (dry weight)

Results by SW8260B

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
1,1,1,2-Tetrachloroethane	15.6U	25.0	7.80	ug/Kg
1,1,1-Trichloroethane	15.6U	25.0	7.80	ug/Kg
1,1,2,2-Tetrachloroethane	30.0U	50.0	15.0	ug/Kg
1,1,2-Trichloroethane	15.6U	25.0	7.80	ug/Kg
1,1-Dichloroethane	15.6U	25.0	7.80	ug/Kg
1,1-Dichloroethene	15.6U	25.0	7.80	ug/Kg
1,1-Dichloropropene	15.6U	25.0	7.80	ug/Kg
1,2,3-Trichlorobenzene	30.0U	50.0	15.0	ug/Kg
1,2,3-Trichloropropane	15.6U	25.0	7.80	ug/Kg
1,2,4-Trichlorobenzene	15.6U	25.0	7.80	ug/Kg
1,2,4-Trimethylbenzene	30.0U	50.0	15.0	ug/Kg
1,2-Dibromo-3-chloropropane	62.0U	100	31.0	ug/Kg
1,2-Dibromoethane	15.6U	25.0	7.80	ug/Kg
1,2-Dichlorobenzene	15.6U	25.0	7.80	ug/Kg
1,2-Dichloroethane	15.6U	25.0	7.80	ug/Kg
1,2-Dichloropropane	15.6U	25.0	7.80	ug/Kg
1,3,5-Trimethylbenzene	15.6U	25.0	7.80	ug/Kg
1,3-Dichlorobenzene	15.6U	25.0	7.80	ug/Kg
1,3-Dichloropropane	15.6U	25.0	7.80	ug/Kg
1,4-Dichlorobenzene	15.6U	25.0	7.80	ug/Kg
2,2-Dichloropropane	15.6U	25.0	7.80	ug/Kg
2-Butanone (MEK)	156U	250	78.0	ug/Kg
2-Chlorotoluene	15.6U	25.0	7.80	ug/Kg
2-Hexanone	156U	250	78.0	ug/Kg
4-Chlorotoluene	15.6U	25.0	7.80	ug/Kg
4-Isopropyltoluene	15.6U	25.0	7.80	ug/Kg
4-Methyl-2-pentanone (MIBK)	156U	250	78.0	ug/Kg
Benzene	7.80U	12.5	3.90	ug/Kg
Bromobenzene	15.6U	25.0	7.80	ug/Kg
Bromochloromethane	15.6U	25.0	7.80	ug/Kg
Bromodichloromethane	15.6U	25.0	7.80	ug/Kg
Bromoform	15.6U	25.0	7.80	ug/Kg
Bromomethane	124U	200	62.0	ug/Kg
Carbon disulfide	62.0U	100	31.0	ug/Kg
Carbon tetrachloride	15.6U	25.0	7.80	ug/Kg
Chlorobenzene	15.6U	25.0	7.80	ug/Kg
Chloroethane	124U	200	62.0	ug/Kg
Chloroform	15.6U	25.0	7.80	ug/Kg

Print Date: 10/25/2013 1:53:32PM



Method Blank

Blank ID: MB for HBN 1490218 [VXX/25361]

Blank Lab ID: 1186569

QC for Samples:

1135142002

Matrix: Soil/Solid (dry weight)

Results by SW8260B

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
Chloromethane	15.6U	25.0	7.80	ug/Kg
cis-1,2-Dichloroethene	15.6U	25.0	7.80	ug/Kg
cis-1,3-Dichloropropene	15.6U	25.0	7.80	ug/Kg
Dibromochloromethane	15.6U	25.0	7.80	ug/Kg
Dibromomethane	15.6U	25.0	7.80	ug/Kg
Dichlorodifluoromethane	30.0U	50.0	15.0	ug/Kg
Ethylbenzene	15.6U	25.0	7.80	ug/Kg
Hexachlorobutadiene	30.0U	50.0	15.0	ug/Kg
Isopropylbenzene (Cumene)	15.6U	25.0	7.80	ug/Kg
Methylene chloride	62.0U	100	31.0	ug/Kg
Methyl-t-butyl ether	62.0U	100	31.0	ug/Kg
Naphthalene	30.0U	50.0	15.0	ug/Kg
n-Butylbenzene	15.6U	25.0	7.80	ug/Kg
n-Propylbenzene	15.6U	25.0	7.80	ug/Kg
o-Xylene	15.6U	25.0	7.80	ug/Kg
P & M -Xylene	30.0U	50.0	15.0	ug/Kg
sec-Butylbenzene	15.6U	25.0	7.80	ug/Kg
Styrene	15.6U	25.0	7.80	ug/Kg
tert-Butylbenzene	15.6U	25.0	7.80	ug/Kg
Tetrachloroethene	7.80U	12.5	3.90	ug/Kg
Toluene	15.6U	25.0	7.80	ug/Kg
trans-1,2-Dichloroethene	15.6U	25.0	7.80	ug/Kg
trans-1,3-Dichloropropene	15.6U	25.0	7.80	ug/Kg
Trichloroethene	7.80U	12.5	3.90	ug/Kg
Trichlorofluoromethane	30.0U	50.0	15.0	ug/Kg
Vinyl chloride	15.6U	25.0	7.80	ug/Kg
Xylenes (total)	45.6U	75.0	22.8	ug/Kg
Surrogates				
1,2-Dichloroethane-D4	104	79-118		%
4-Bromofluorobenzene	99.9	67-138		%
Toluene-d8	99.6	85-115		%

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Method Blank

Blank ID: MB for HBN 1490218 [VXX/25361]
Blank Lab ID: 1186569

Matrix: Soil/Solid (dry weight)

QC for Samples:
1135142002

Results by SW8260B

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
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Batch Information

Analytical Batch: VMS13840
Analytical Method: SW8260B
Instrument: Agilent 7890-75MS
Analyst: HM
Analytical Date/Time: 10/18/2013 11:33:01AM

Prep Batch: VXX25361
Prep Method: SW5035A
Prep Date/Time: 10/18/2013 8:00:00AM
Prep Initial Wt./Vol.: 50 g
Prep Extract Vol: 25 mL

Print Date: 10/25/2013 1:53:32PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1135142 [VXX25361]
 Blank Spike Lab ID: 1186570
 Date Analyzed: 10/18/2013 11:56

Matrix: Soil/Solid (dry weight)

QC for Samples: 1135142002

Results by SW8260B

Parameter	Blank Spike (ug/Kg)			CL
	Spike	Result	Rec (%)	
1,1,1,2-Tetrachloroethane	750	802	107	(75-125)
1,1,1-Trichloroethane	750	840	112	(70-135)
1,1,2,2-Tetrachloroethane	750	749	100	(55-130)
1,1,2-Trichloroethane	750	770	103	(60-125)
1,1-Dichloroethane	750	830	111	(75-125)
1,1-Dichloroethene	750	936	125	(65-135)
1,1-Dichloropropene	750	841	112	(70-135)
1,2,3-Trichlorobenzene	750	642	86	(60-135)
1,2,3-Trichloropropane	750	741	99	(65-130)
1,2,4-Trichlorobenzene	750	711	95	(65-130)
1,2,4-Trimethylbenzene	750	767	102	(65-135)
1,2-Dibromo-3-chloropropane	750	745	99	(40-135)
1,2-Dibromoethane	750	808	108	(70-125)
1,2-Dichlorobenzene	750	751	100	(75-120)
1,2-Dichloroethane	750	785	105	(70-135)
1,2-Dichloropropane	750	802	107	(70-120)
1,3,5-Trimethylbenzene	750	776	103	(65-135)
1,3-Dichlorobenzene	750	761	102	(70-125)
1,3-Dichloropropane	750	766	102	(75-125)
1,4-Dichlorobenzene	750	762	102	(70-125)
2,2-Dichloropropane	750	881	117	(65-135)
2-Butanone (MEK)	2250	2290	102	(30-160)
2-Chlorotoluene	750	755	101	(70-130)
2-Hexanone	2250	2280	101	(45-145)
4-Chlorotoluene	750	759	101	(75-125)
4-Isopropyltoluene	750	790	105	(75-135)
4-Methyl-2-pentanone (MIBK)	2250	2330	104	(45-145)
Benzene	750	811	108	(75-125)
Bromobenzene	750	785	105	(65-120)
Bromochloromethane	750	820	109	(70-125)
Bromodichloromethane	750	820	109	(70-130)
Bromoform	750	721	96	(55-135)
Bromomethane	750	843	112	(30-160)

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1135142 [VXX25361]
 Blank Spike Lab ID: 1186570
 Date Analyzed: 10/18/2013 11:56

Matrix: Soil/Solid (dry weight)

QC for Samples: 1135142002

Results by SW8260B

Parameter	Blank Spike (ug/Kg)			CL
	Spike	Result	Rec (%)	
Carbon disulfide	1130	1600	142	(45-160)
Carbon tetrachloride	750	775	103	(65-135)
Chlorobenzene	750	785	105	(75-125)
Chloroethane	750	666	89	(40-155)
Chloroform	750	820	109	(70-125)
Chloromethane	750	777	104	(50-130)
cis-1,2-Dichloroethene	750	787	105	(65-125)
cis-1,3-Dichloropropene	750	822	110	(70-125)
Dibromochloromethane	750	731	97	(65-130)
Dibromomethane	750	831	111	(75-130)
Dichlorodifluoromethane	750	854	114	(35-135)
Ethylbenzene	750	790	105	(75-125)
Hexachlorobutadiene	750	770	103	(55-140)
Isopropylbenzene (Cumene)	750	802	107	(75-130)
Methyl-t-butyl ether	1130	1220	109	(63-149)
Methylene chloride	750	817	109	(55-140)
n-Butylbenzene	750	779	104	(65-140)
n-Propylbenzene	750	772	103	(65-135)
Naphthalene	750	665	89	(40-125)
o-Xylene	750	788	105	(75-125)
P & M -Xylene	1500	1590	106	(80-125)
sec-Butylbenzene	750	776	103	(65-130)
Styrene	750	821	110	(75-125)
tert-Butylbenzene	750	772	103	(65-130)
Tetrachloroethene	750	799	107	(65-140)
Toluene	750	779	104	(70-125)
trans-1,2-Dichloroethene	750	881	117	(65-135)
trans-1,3-Dichloropropene	750	810	108	(65-125)
Trichloroethene	750	834	111	(75-125)
Trichlorofluoromethane	750	764	102	(25-185)
Vinyl chloride	750	833	111	(60-125)
Xylenes (total)	2250	2380	106	(80-125)

Surrogates

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1135142 [VXX25361]
Blank Spike Lab ID: 1186570
Date Analyzed: 10/18/2013 11:56

Matrix: Soil/Solid (dry weight)

QC for Samples: 1135142002

Results by SW8260B

<u>Parameter</u>	Blank Spike (%)			<u>CL</u>
	<u>Spike</u>	<u>Result</u>	<u>Rec (%)</u>	
1,2-Dichloroethane-D4	750	96.8	97	(79-118)
4-Bromofluorobenzene	750	97.6	98	(67-138)
Toluene-d8	750	98.6	99	(85-115)

Batch Information

Analytical Batch: **VMS13840**
Analytical Method: **SW8260B**
Instrument: **Agilent 7890-75MS**
Analyst: **HM**

Prep Batch: **VXX25361**
Prep Method: **SW5035A**
Prep Date/Time: **10/18/2013 08:00**
Spike Init Wt./Vol.: 750 ug/Kg Extract Vol: 25 mL
Dupe Init Wt./Vol.: Extract Vol:

Print Date: 10/25/2013 1:53:33PM



Matrix Spike Summary

Original Sample ID: 1186571
 MS Sample ID: 1186572 MS
 MSD Sample ID: 1186573 MSD

Analysis Date: 10/18/2013 13:51
 Analysis Date: 10/18/2013 12:27
 Analysis Date: 10/18/2013 12:44
 Matrix: Solid/Soil (Wet Weight)

QC for Samples: 1135142002

Results by SW8260B

Parameter	Sample	Matrix Spike (ug/Kg)			Spike Duplicate (ug/Kg)			CL	RPD (%)	RPD CL
		Spike	Result	Rec (%)	Spike	Result	Rec (%)			
1,1,1,2-Tetrachloroethane	7.82U	376	409	109	376	431	115	75-125	5.20	(< 20)
1,1,1-Trichloroethane	7.82U	376	418	111	376	437	116	70-135	4.40	(< 20)
1,1,2,2-Tetrachloroethane	15.0U	376	379	101	376	393	105	55-130	3.50	(< 20)
1,1,2-Trichloroethane	7.82U	376	387	103	376	401	107	60-125	3.60	(< 20)
1,1-Dichloroethane	7.82U	376	417	111	376	431	115	75-125	3.30	(< 20)
1,1-Dichloroethene	7.82U	376	526	140 *	376	638	170 *	65-135	19.10	(< 20)
1,1-Dichloropropene	7.82U	376	420	112	376	436	116	70-135	3.80	(< 20)
1,2,3-Trichlorobenzene	15.0U	376	301	80	376	400	106	60-135	28.00	* (< 20)
1,2,3-Trichloropropane	7.82U	376	377	100	376	389	104	65-130	3.00	(< 20)
1,2,4-Trichlorobenzene	7.82U	376	343	91	376	411	109	65-130	18.10	(< 20)
1,2,4-Trimethylbenzene	15.0U	376	388	103	376	406	108	65-135	4.40	(< 20)
1,2-Dibromo-3-chloropropane	31.0U	376	371	99	376	422	112	40-135	13.00	(< 20)
1,2-Dibromoethane	7.82U	376	403	107	376	417	111	70-125	3.40	(< 20)
1,2-Dichlorobenzene	7.82U	376	375	100	376	397	106	75-120	5.70	(< 20)
1,2-Dichloroethane	7.82U	376	393	105	376	400	107	70-135	1.80	(< 20)
1,2-Dichloropropane	7.82U	376	404	108	376	415	110	70-120	2.70	(< 20)
1,3,5-Trimethylbenzene	7.82U	376	389	104	376	409	109	65-135	4.90	(< 20)
1,3-Dichlorobenzene	7.82U	376	385	102	376	400	107	70-125	4.00	(< 20)
1,3-Dichloropropane	7.82U	376	385	102	376	398	106	75-125	3.30	(< 20)
1,4-Dichlorobenzene	7.82U	376	385	102	376	401	107	70-125	4.10	(< 20)
2,2-Dichloropropane	7.82U	376	452	120	376	467	124	65-135	3.30	(< 20)
2-Butanone (MEK)	78.2U	1130	1150	102	1130	1220	109	30-160	6.00	(< 20)
2-Chlorotoluene	7.82U	376	377	100	376	390	104	70-130	3.20	(< 20)
2-Hexanone	78.2U	1130	1130	100	1130	1220	108	45-145	7.70	(< 20)
4-Chlorotoluene	7.82U	376	383	102	376	396	105	75-125	3.40	(< 20)
4-Isopropyltoluene	7.82U	376	395	105	376	418	111	75-135	5.80	(< 20)
4-Methyl-2-pentanone (MIBK)	78.2U	1130	1170	104	1130	1230	109	45-145	5.30	(< 20)
Benzene	10.0	376	417	108	376	439	114	75-125	5.20	(< 20)
Bromobenzene	7.82U	376	394	105	376	404	108	65-120	2.70	(< 20)
Bromochloromethane	7.82U	376	409	109	376	413	110	70-125	1.00	(< 20)
Bromodichloromethane	7.82U	376	419	112	376	428	114	70-130	2.00	(< 20)
Bromoform	7.82U	376	369	98	376	388	103	55-135	5.00	(< 20)
Bromomethane	62.2U	376	431	115	376	453	120	30-160	4.90	(< 20)
Carbon disulfide	31.0U	563	923	164 *	563	1050	187 *	45-160	13.10	(< 20)
Carbon tetrachloride	7.82U	376	389	104	376	406	108	65-135	4.30	(< 20)
Chlorobenzene	7.82U	376	397	106	376	418	111	75-125	5.20	(< 20)
Chloroethane	62.2U	376	371	99	376	379	101	40-155	2.10	(< 20)

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Matrix Spike Summary

Original Sample ID: 1186571
 MS Sample ID: 1186572 MS
 MSD Sample ID: 1186573 MSD

Analysis Date: 10/18/2013 13:51
 Analysis Date: 10/18/2013 12:27
 Analysis Date: 10/18/2013 12:44
 Matrix: Solid/Soil (Wet Weight)

QC for Samples: 1135142002

Results by SW8260B

Parameter	Sample	Matrix Spike (ug/Kg)			Spike Duplicate (ug/Kg)			CL	RPD (%)	RPD CL
		Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Chloroform	7.82U	376	413	110	376	425	113	70-125	2.90	(< 20)
Chloromethane	7.82U	376	395	105	376	398	106	50-130	0.76	(< 20)
cis-1,2-Dichloroethene	7.82U	376	395	105	376	408	109	65-125	3.20	(< 20)
cis-1,3-Dichloropropene	7.82U	376	415	110	376	427	114	70-125	2.80	(< 20)
Dibromochloromethane	7.82U	376	371	99	376	386	103	65-130	4.00	(< 20)
Dibromomethane	7.82U	376	418	111	376	428	114	75-130	2.30	(< 20)
Dichlorodifluoromethane	15.0U	376	438	117	376	443	118	35-135	1.10	(< 20)
Ethylbenzene	7.82U	376	398	106	376	422	112	75-125	5.90	(< 20)
Hexachlorobutadiene	15.0U	376	370	99	376	417	111	55-140	11.90	(< 20)
Isopropylbenzene (Cumene)	7.82U	376	400	107	376	430	115	75-130	7.20	(< 20)
Methyl-t-butyl ether	31.0U	563	610	108	563	619	110	63-149	1.40	(< 20)
Methylene chloride	31.0U	376	375	100	376	379	101	55-140	1.10	(< 20)
n-Butylbenzene	7.82U	376	392	104	376	414	110	65-140	5.60	(< 20)
n-Propylbenzene	7.82U	376	385	102	376	403	107	65-135	4.70	(< 20)
Naphthalene	15.0U	376	323	86	376	408	109	40-125	23.40	* (< 20)
o-Xylene	7.82U	376	399	106	376	420	112	75-125	5.10	(< 20)
P & M -Xylene	8.51J	751	804	106	751	836	110	80-125	3.90	(< 20)
sec-Butylbenzene	7.82U	376	388	103	376	406	108	65-130	4.40	(< 20)
Styrene	7.82U	376	413	110	376	433	115	75-125	4.80	(< 20)
tert-Butylbenzene	7.82U	376	387	103	376	402	107	65-130	3.70	(< 20)
Tetrachloroethene	3.90U	376	393	105	376	424	113	65-140	7.60	(< 20)
Toluene	7.82U	376	386	103	376	412	110	70-125	6.60	(< 20)
trans-1,2-Dichloroethene	7.82U	376	438	117	376	454	121	65-135	3.50	(< 20)
trans-1,3-Dichloropropene	7.82U	376	409	109	376	422	112	65-125	3.20	(< 20)
Trichloroethene	3.90U	376	417	111	376	434	115	75-125	4.00	(< 20)
Trichlorofluoromethane	15.0U	376	410	109	376	405	108	25-185	1.10	(< 20)
Vinyl chloride	7.82U	376	429	114	376	430	115	60-125	0.17	(< 20)
Xylenes (total)	31.0U	1130	1200	107	1130	1260	111	80-125	4.30	(< 20)
Surrogates										
1,2-Dichloroethane-D4		376	405	108	376	400	106	79-118	1.20	
4-Bromofluorobenzene		1000	957	96	1000	943	94	67-138	1.60	
Toluene-d8		376	402	107	376	407	108	85-115	1.30	

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Matrix Spike Summary

Original Sample ID: 1186571
MS Sample ID: 1186572 MS
MSD Sample ID: 1186573 MSD

Analysis Date:
Analysis Date: 10/18/2013 12:27
Analysis Date: 10/18/2013 12:44
Matrix: Solid/Soil (Wet Weight)

QC for Samples: 1135142002

Results by SW8260B

Parameter	Sample	Matrix Spike (%)			Spike Duplicate (%)			CL	RPD (%)	RPD CL
		Spike	Result	Rec (%)	Spike	Result	Rec (%)			

Batch Information

Analytical Batch: VMS13840
Analytical Method: SW8260B
Instrument: Agilent 7890-75MS
Analyst: HM
Analytical Date/Time: 10/18/2013 12:27:00PM

Prep Batch: VXX25361
Prep Method: Vol. Extraction SW8260 Field Extracted L
Prep Date/Time: 10/18/2013 8:00:00AM
Prep Initial Wt./Vol.: 99.83g
Prep Extract Vol: 25.00mL

Print Date: 10/25/2013 1:53:33PM



Method Blank

Blank ID: MB for HBN 1491272 [VXX/25384]

Blank Lab ID: 1187598

QC for Samples:

1135142003

Matrix: Soil/Solid (dry weight)

Results by SW8260B

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
1,1,1,2-Tetrachloroethane	15.6U	25.0	7.80	ug/Kg
1,1,1-Trichloroethane	15.6U	25.0	7.80	ug/Kg
1,1,2,2-Tetrachloroethane	30.0U	50.0	15.0	ug/Kg
1,1,2-Trichloroethane	15.6U	25.0	7.80	ug/Kg
1,1-Dichloroethane	15.6U	25.0	7.80	ug/Kg
1,1-Dichloroethene	15.6U	25.0	7.80	ug/Kg
1,1-Dichloropropene	15.6U	25.0	7.80	ug/Kg
1,2,3-Trichlorobenzene	30.0U	50.0	15.0	ug/Kg
1,2,3-Trichloropropane	15.6U	25.0	7.80	ug/Kg
1,2,4-Trichlorobenzene	15.6U	25.0	7.80	ug/Kg
1,2,4-Trimethylbenzene	30.0U	50.0	15.0	ug/Kg
1,2-Dibromo-3-chloropropane	62.0U	100	31.0	ug/Kg
1,2-Dibromoethane	15.6U	25.0	7.80	ug/Kg
1,2-Dichlorobenzene	15.6U	25.0	7.80	ug/Kg
1,2-Dichloroethane	15.6U	25.0	7.80	ug/Kg
1,2-Dichloropropane	15.6U	25.0	7.80	ug/Kg
1,3,5-Trimethylbenzene	15.6U	25.0	7.80	ug/Kg
1,3-Dichlorobenzene	15.6U	25.0	7.80	ug/Kg
1,3-Dichloropropane	15.6U	25.0	7.80	ug/Kg
1,4-Dichlorobenzene	15.6U	25.0	7.80	ug/Kg
2,2-Dichloropropane	15.6U	25.0	7.80	ug/Kg
2-Butanone (MEK)	156U	250	78.0	ug/Kg
2-Chlorotoluene	15.6U	25.0	7.80	ug/Kg
2-Hexanone	156U	250	78.0	ug/Kg
4-Chlorotoluene	15.6U	25.0	7.80	ug/Kg
4-Isopropyltoluene	15.6U	25.0	7.80	ug/Kg
4-Methyl-2-pentanone (MIBK)	156U	250	78.0	ug/Kg
Benzene	7.80U	12.5	3.90	ug/Kg
Bromobenzene	15.6U	25.0	7.80	ug/Kg
Bromochloromethane	15.6U	25.0	7.80	ug/Kg
Bromodichloromethane	15.6U	25.0	7.80	ug/Kg
Bromoform	15.6U	25.0	7.80	ug/Kg
Bromomethane	124U	200	62.0	ug/Kg
Carbon disulfide	62.0U	100	31.0	ug/Kg
Carbon tetrachloride	15.6U	25.0	7.80	ug/Kg
Chlorobenzene	15.6U	25.0	7.80	ug/Kg
Chloroethane	124U	200	62.0	ug/Kg
Chloroform	15.6U	25.0	7.80	ug/Kg

Print Date: 10/25/2013 1:53:34PM



Method Blank

Blank ID: MB for HBN 1491272 [VXX/25384]

Blank Lab ID: 1187598

QC for Samples:

1135142003

Matrix: Soil/Solid (dry weight)

Results by SW8260B

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
Chloromethane	15.6U	25.0	7.80	ug/Kg
cis-1,2-Dichloroethene	15.6U	25.0	7.80	ug/Kg
cis-1,3-Dichloropropene	15.6U	25.0	7.80	ug/Kg
Dibromochloromethane	15.6U	25.0	7.80	ug/Kg
Dibromomethane	15.6U	25.0	7.80	ug/Kg
Dichlorodifluoromethane	30.0U	50.0	15.0	ug/Kg
Ethylbenzene	15.6U	25.0	7.80	ug/Kg
Hexachlorobutadiene	30.0U	50.0	15.0	ug/Kg
Isopropylbenzene (Cumene)	15.6U	25.0	7.80	ug/Kg
Methylene chloride	62.0U	100	31.0	ug/Kg
Methyl-t-butyl ether	62.0U	100	31.0	ug/Kg
Naphthalene	30.0U	50.0	15.0	ug/Kg
n-Butylbenzene	15.6U	25.0	7.80	ug/Kg
n-Propylbenzene	15.6U	25.0	7.80	ug/Kg
o-Xylene	15.6U	25.0	7.80	ug/Kg
P & M -Xylene	30.0U	50.0	15.0	ug/Kg
sec-Butylbenzene	15.6U	25.0	7.80	ug/Kg
Styrene	15.6U	25.0	7.80	ug/Kg
tert-Butylbenzene	15.6U	25.0	7.80	ug/Kg
Tetrachloroethene	7.80U	12.5	3.90	ug/Kg
Toluene	15.6U	25.0	7.80	ug/Kg
trans-1,2-Dichloroethene	15.6U	25.0	7.80	ug/Kg
trans-1,3-Dichloropropene	15.6U	25.0	7.80	ug/Kg
Trichloroethene	7.80U	12.5	3.90	ug/Kg
Trichlorofluoromethane	30.0U	50.0	15.0	ug/Kg
Vinyl chloride	15.6U	25.0	7.80	ug/Kg
Xylenes (total)	45.6U	75.0	22.8	ug/Kg
Surrogates				
1,2-Dichloroethane-D4	99.5	79-118		%
4-Bromofluorobenzene	124	67-138		%
Toluene-d8	110	85-115		%

Print Date: 10/25/2013 1:53:34PM



Method Blank

Blank ID: MB for HBN 1491272 [VXX/25384]
Blank Lab ID: 1187598

Matrix: Soil/Solid (dry weight)

QC for Samples:
1135142003

Results by SW8260B

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
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Batch Information

Analytical Batch: VMS13854
Analytical Method: SW8260B
Instrument: Agilent 7890-75MS
Analyst: HM
Analytical Date/Time: 10/23/2013 10:24:01AM

Prep Batch: VXX25384
Prep Method: SW5035A
Prep Date/Time: 10/23/2013 8:00:00AM
Prep Initial Wt./Vol.: 50 g
Prep Extract Vol: 25 mL

Print Date: 10/25/2013 1:53:34PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1135142 [VXX25384]
Blank Spike Lab ID: 1187599
Date Analyzed: 10/23/2013 10:57

Matrix: Soil/Solid (dry weight)

QC for Samples: 1135142003

Results by SW8260B

Parameter	Blank Spike (ug/Kg)			CL
	Spike	Result	Rec (%)	
1,1,1,2-Tetrachloroethane	750	773	103	(75-125)
1,1,1-Trichloroethane	750	703	94	(70-135)
1,1,2,2-Tetrachloroethane	750	835	111	(55-130)
1,1,2-Trichloroethane	750	724	97	(60-125)
1,1-Dichloroethane	750	664	89	(75-125)
1,1-Dichloroethene	750	726	97	(65-135)
1,1-Dichloropropene	750	681	91	(70-135)
1,2,3-Trichlorobenzene	750	615	82	(60-135)
1,2,3-Trichloropropane	750	833	111	(65-130)
1,2,4-Trichlorobenzene	750	691	92	(65-130)
1,2,4-Trimethylbenzene	750	809	108	(65-135)
1,2-Dibromo-3-chloropropane	750	801	107	(40-135)
1,2-Dibromoethane	750	744	99	(70-125)
1,2-Dichlorobenzene	750	787	105	(75-120)
1,2-Dichloroethane	750	646	86	(70-135)
1,2-Dichloropropane	750	661	88	(70-120)
1,3,5-Trimethylbenzene	750	837	112	(65-135)
1,3-Dichlorobenzene	750	811	108	(70-125)
1,3-Dichloropropane	750	721	96	(75-125)
1,4-Dichlorobenzene	750	813	108	(70-125)
2,2-Dichloropropane	750	688	92	(65-135)
2-Butanone (MEK)	2250	1910	85	(30-160)
2-Chlorotoluene	750	811	108	(70-130)
2-Hexanone	2250	2200	98	(45-145)
4-Chlorotoluene	750	829	111	(75-125)
4-Isopropyltoluene	750	838	112	(75-135)
4-Methyl-2-pentanone (MIBK)	2250	1950	87	(45-145)
Benzene	750	664	89	(75-125)
Bromobenzene	750	832	111	(65-120)
Bromochloromethane	750	651	87	(70-125)
Bromodichloromethane	750	693	92	(70-130)
Bromoform	750	668	89	(55-135)
Bromomethane	750	703	94	(30-160)

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1135142 [VXX25384]
 Blank Spike Lab ID: 1187599
 Date Analyzed: 10/23/2013 10:57

Matrix: Soil/Solid (dry weight)

QC for Samples: 1135142003

Results by SW8260B

Parameter	Blank Spike (ug/Kg)			CL
	Spike	Result	Rec (%)	
Carbon disulfide	1130	1120	100	(45-160)
Carbon tetrachloride	750	716	95	(65-135)
Chlorobenzene	750	713	95	(75-125)
Chloroethane	750	648	86	(40-155)
Chloroform	750	662	88	(70-125)
Chloromethane	750	634	85	(50-130)
cis-1,2-Dichloroethene	750	640	85	(65-125)
cis-1,3-Dichloropropene	750	695	93	(70-125)
Dibromochloromethane	750	798	106	(65-130)
Dibromomethane	750	679	91	(75-130)
Dichlorodifluoromethane	750	612	82	(35-135)
Ethylbenzene	750	715	95	(75-125)
Hexachlorobutadiene	750	775	103	(55-140)
Isopropylbenzene (Cumene)	750	731	97	(75-130)
Methyl-t-butyl ether	1130	977	87	(63-149)
Methylene chloride	750	674	90	(55-140)
n-Butylbenzene	750	854	114	(65-140)
n-Propylbenzene	750	833	111	(65-135)
Naphthalene	750	654	87	(40-125)
o-Xylene	750	720	96	(75-125)
P & M -Xylene	1500	1440	96	(80-125)
sec-Butylbenzene	750	845	113	(65-130)
Styrene	750	737	98	(75-125)
tert-Butylbenzene	750	827	110	(65-130)
Tetrachloroethene	750	715	95	(65-140)
Toluene	750	702	94	(70-125)
trans-1,2-Dichloroethene	750	670	89	(65-135)
trans-1,3-Dichloropropene	750	784	105	(65-125)
Trichloroethene	750	662	88	(75-125)
Trichlorofluoromethane	750	728	97	(25-185)
Vinyl chloride	750	628	84	(60-125)
Xylenes (total)	2250	2160	96	(80-125)

Surrogates

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1135142 [VXX25384]
Blank Spike Lab ID: 1187599
Date Analyzed: 10/23/2013 10:57

Matrix: Soil/Solid (dry weight)

QC for Samples: 1135142003

Results by SW8260B

<u>Parameter</u>	Blank Spike (%)			<u>CL</u>
	<u>Spike</u>	<u>Result</u>	<u>Rec (%)</u>	
1,2-Dichloroethane-D4	750	89.2	89	(79-118)
4-Bromofluorobenzene	750	116	116	(67-138)
Toluene-d8	750	103	103	(85-115)

Batch Information

Analytical Batch: **VMS13854**
Analytical Method: **SW8260B**
Instrument: **Agilent 7890-75MS**
Analyst: **HM**

Prep Batch: **VXX25384**
Prep Method: **SW5035A**
Prep Date/Time: **10/23/2013 08:00**
Spike Init Wt./Vol.: 750 ug/Kg Extract Vol: 25 mL
Dupe Init Wt./Vol.: Extract Vol:

Print Date: 10/25/2013 1:53:34PM



Matrix Spike Summary

Original Sample ID: 1187600
 MS Sample ID: 1187601 MS
 MSD Sample ID: 1187602 MSD

Analysis Date: 10/23/2013 15:39
 Analysis Date: 10/23/2013 13:07
 Analysis Date: 10/23/2013 13:24
 Matrix: Solid/Soil (Wet Weight)

QC for Samples: 1135142003

Results by SW8260B

Parameter	Sample	Matrix Spike (ug/Kg)			Spike Duplicate (ug/Kg)			CL	RPD (%)	RPD CL
		Spike	Result	Rec (%)	Spike	Result	Rec (%)			
1,1,1,2-Tetrachloroethane	5.64U	271	273	101	271	278	102	75-125	1.90	(< 20)
1,1,1-Trichloroethane	5.64U	271	248	91	271	255	94	70-135	2.60	(< 20)
1,1,2,2-Tetrachloroethane	10.9U	271	288	106	271	302	111	55-130	4.70	(< 20)
1,1,2-Trichloroethane	5.64U	271	259	95	271	262	96	60-125	1.10	(< 20)
1,1-Dichloroethane	5.64U	271	236	87	271	242	89	75-125	2.60	(< 20)
1,1-Dichloroethene	5.64U	271	307	113	271	325	120	65-135	5.80	(< 20)
1,1-Dichloropropene	5.64U	271	243	90	271	249	92	70-135	2.10	(< 20)
1,2,3-Trichlorobenzene	10.9U	271	308	113	271	317	117	60-135	2.90	(< 20)
1,2,3-Trichloropropane	5.64U	271	284	105	271	293	108	65-130	3.00	(< 20)
1,2,4-Trichlorobenzene	5.64U	271	306	113	271	321	118	65-130	4.60	(< 20)
1,2,4-Trimethylbenzene	8.42J	271	288	103	271	304	109	65-135	5.40	(< 20)
1,2-Dibromo-3-chloropropane	22.4U	271	317	117	271	322	119	40-135	1.50	(< 20)
1,2-Dibromoethane	5.64U	271	264	97	271	268	99	70-125	1.50	(< 20)
1,2-Dichlorobenzene	5.64U	271	272	100	271	286	105	75-120	4.90	(< 20)
1,2-Dichloroethane	5.64U	271	228	84	271	232	86	70-135	2.00	(< 20)
1,2-Dichloropropane	5.64U	271	235	87	271	239	88	70-120	1.80	(< 20)
1,3,5-Trimethylbenzene	3.98J	271	288	105	271	302	110	65-135	4.80	(< 20)
1,3-Dichlorobenzene	5.64U	271	278	102	271	295	109	70-125	6.00	(< 20)
1,3-Dichloropropane	5.64U	271	256	94	271	260	96	75-125	1.20	(< 20)
1,4-Dichlorobenzene	5.64U	271	278	102	271	295	109	70-125	6.10	(< 20)
2,2-Dichloropropane	5.64U	271	251	93	271	258	95	65-135	2.60	(< 20)
2-Butanone (MEK)	56.4U	814	720	88	814	713	88	30-160	1.00	(< 20)
2-Chlorotoluene	5.64U	271	278	102	271	289	107	70-130	4.00	(< 20)
2-Hexanone	56.4U	814	830	102	814	815	100	45-145	1.80	(< 20)
4-Chlorotoluene	5.64U	271	282	104	271	294	108	75-125	4.40	(< 20)
4-Isopropyltoluene	6.88J	271	297	107	271	314	113	75-135	5.40	(< 20)
4-Methyl-2-pentanone (MIBK)	56.4U	814	723	89	814	723	89	45-145	0.09	(< 20)
Benzene	2.82U	271	238	88	271	244	90	75-125	2.20	(< 20)
Bromobenzene	5.64U	271	281	103	271	295	109	65-120	4.90	(< 20)
Bromochloromethane	5.64U	271	228	84	271	232	86	70-125	1.80	(< 20)
Bromodichloromethane	5.64U	271	245	90	271	253	93	70-130	3.30	(< 20)
Bromoform	5.64U	271	237	87	271	243	90	55-135	2.60	(< 20)
Bromomethane	44.8U	271	243	90	271	225	83	30-160	7.90	(< 20)
Carbon disulfide	22.4U	407	455	112	407	494	121	45-160	8.30	(< 20)
Carbon tetrachloride	5.64U	271	252	93	271	260	96	65-135	3.10	(< 20)
Chlorobenzene	5.64U	271	256	94	271	263	97	75-125	2.50	(< 20)
Chloroethane	44.8U	271	243	89	271	242	89	40-155	0.30	(< 20)

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Matrix Spike Summary

Original Sample ID: 1187600
 MS Sample ID: 1187601 MS
 MSD Sample ID: 1187602 MSD

Analysis Date: 10/23/2013 15:39
 Analysis Date: 10/23/2013 13:07
 Analysis Date: 10/23/2013 13:24
 Matrix: Solid/Soil (Wet Weight)

QC for Samples: 1135142003

Results by SW8260B

Parameter	Sample	Matrix Spike (ug/Kg)			Spike Duplicate (ug/Kg)			CL	RPD (%)	RPD CL
		Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Chloroform	5.64U	271	235	87	271	240	89	70-125	2.10	(< 20)
Chloromethane	5.64U	271	226	83	271	221	81	50-130	2.10	(< 20)
cis-1,2-Dichloroethene	5.64U	271	226	83	271	230	85	65-125	1.90	(< 20)
cis-1,3-Dichloropropene	5.64U	271	243	90	271	252	93	70-125	3.50	(< 20)
Dibromochloromethane	5.64U	271	283	104	271	290	107	65-130	2.40	(< 20)
Dibromomethane	5.64U	271	237	87	271	241	89	75-130	1.70	(< 20)
Dichlorodifluoromethane	10.9U	271	200	74	271	207	76	35-135	3.20	(< 20)
Ethylbenzene	5.64U	271	258	95	271	260	96	75-125	1.00	(< 20)
Hexachlorobutadiene	10.9U	271	402	148 *	271	421	155 *	55-140	4.80	(< 20)
Isopropylbenzene (Cumene)	5.64U	271	260	96	271	266	98	75-130	2.10	(< 20)
Methyl-t-butyl ether	22.4U	407	339	83	407	347	85	63-149	2.30	(< 20)
Methylene chloride	22.4U	271	228	84	271	231	85	55-140	1.10	(< 20)
n-Butylbenzene	5.64U	271	317	117	271	329	121	65-140	3.80	(< 20)
n-Propylbenzene	5.64U	271	286	105	271	300	110	65-135	4.60	(< 20)
Naphthalene	12.7J	271	323	114	271	335	119	40-125	3.70	(< 20)
o-Xylene	5.64U	271	261	96	271	266	98	75-125	1.80	(< 20)
P & M -Xylene	10.9U	543	524	96	543	534	98	80-125	2.00	(< 20)
sec-Butylbenzene	5.64U	271	290	107	271	303	112	65-130	4.60	(< 20)
Styrene	5.64U	271	267	99	271	272	100	75-125	1.80	(< 20)
tert-Butylbenzene	5.64U	271	280	103	271	291	107	65-130	3.60	(< 20)
Tetrachloroethene	2.82U	271	253	93	271	258	95	65-140	2.10	(< 20)
Toluene	12.8	271	263	92	271	267	94	70-125	1.80	(< 20)
trans-1,2-Dichloroethene	5.64U	271	236	87	271	242	89	65-135	2.60	(< 20)
trans-1,3-Dichloropropene	5.64U	271	278	103	271	285	105	65-125	2.40	(< 20)
Trichloroethene	2.82U	271	234	86	271	241	89	75-125	2.90	(< 20)
Trichlorofluoromethane	10.9U	271	263	97	271	258	95	25-185	1.70	(< 20)
Vinyl chloride	5.64U	271	217	80	271	225	83	60-125	3.80	(< 20)
Xylenes (total)	22.4U	814	784	96	814	799	98	80-125	1.90	(< 20)
Surrogates										
1,2-Dichloroethane-D4		271	241	89	271	237	87	79-118	1.70	
4-Bromofluorobenzene		724	601	83	724	618	85	67-138	2.80	
Toluene-d8		271	281	104	271	276	102	85-115	1.80	

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Matrix Spike Summary

Original Sample ID: 1187600
MS Sample ID: 1187601 MS
MSD Sample ID: 1187602 MSD

Analysis Date:
Analysis Date: 10/23/2013 13:07
Analysis Date: 10/23/2013 13:24
Matrix: Solid/Soil (Wet Weight)

QC for Samples: 1135142003

Results by SW8260B

Parameter	Sample	Matrix Spike (%)			Spike Duplicate (%)			CL	RPD (%)	RPD CL
		Spike	Result	Rec (%)	Spike	Result	Rec (%)			

Batch Information

Analytical Batch: VMS13854
Analytical Method: SW8260B
Instrument: Agilent 7890-75MS
Analyst: HM
Analytical Date/Time: 10/23/2013 1:07:00PM

Prep Batch: VXX25384
Prep Method: Vol. Extraction SW8260 Field Extracted L
Prep Date/Time: 10/23/2013 8:00:00AM
Prep Initial Wt./Vol.: 138.13g
Prep Extract Vol: 25.00mL

Print Date: 10/25/2013 1:53:35PM



Method Blank

Blank ID: MB for HBN 1491310 [VXX/25387]

Blank Lab ID: 1187794

QC for Samples:

1135142001, 1135142004

Matrix: Water (Surface, Eff., Ground)

Results by SW8260B

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
1,1,1,2-Tetrachloroethane	0.300U	0.500	0.150	ug/L
1,1,1-Trichloroethane	0.620U	1.00	0.310	ug/L
1,1,2,2-Tetrachloroethane	0.300U	0.500	0.150	ug/L
1,1,2-Trichloroethane	0.620U	1.00	0.310	ug/L
1,1-Dichloroethane	0.620U	1.00	0.310	ug/L
1,1-Dichloroethene	0.620U	1.00	0.310	ug/L
1,1-Dichloropropene	0.620U	1.00	0.310	ug/L
1,2,3-Trichlorobenzene	0.620U	1.00	0.310	ug/L
1,2,3-Trichloropropane	0.620U	1.00	0.310	ug/L
1,2,4-Trichlorobenzene	0.620U	1.00	0.310	ug/L
1,2,4-Trimethylbenzene	0.620U	1.00	0.310	ug/L
1,2-Dibromo-3-chloropropane	1.24U	2.00	0.620	ug/L
1,2-Dibromoethane	0.620U	1.00	0.310	ug/L
1,2-Dichlorobenzene	0.620U	1.00	0.310	ug/L
1,2-Dichloroethane	0.300U	0.500	0.150	ug/L
1,2-Dichloropropane	0.620U	1.00	0.310	ug/L
1,3,5-Trimethylbenzene	0.620U	1.00	0.310	ug/L
1,3-Dichlorobenzene	0.620U	1.00	0.310	ug/L
1,3-Dichloropropane	0.240U	0.400	0.120	ug/L
1,4-Dichlorobenzene	0.300U	0.500	0.150	ug/L
2,2-Dichloropropane	0.620U	1.00	0.310	ug/L
2-Butanone (MEK)	6.20U	10.0	3.10	ug/L
2-Chlorotoluene	0.620U	1.00	0.310	ug/L
2-Hexanone	6.20U	10.0	3.10	ug/L
4-Chlorotoluene	0.620U	1.00	0.310	ug/L
4-Isopropyltoluene	0.620U	1.00	0.310	ug/L
4-Methyl-2-pentanone (MIBK)	6.20U	10.0	3.10	ug/L
Benzene	0.240U	0.400	0.120	ug/L
Bromobenzene	0.620U	1.00	0.310	ug/L
Bromochloromethane	0.620U	1.00	0.310	ug/L
Bromodichloromethane	0.300U	0.500	0.150	ug/L
Bromoform	0.620U	1.00	0.310	ug/L
Bromomethane	1.88U	3.00	0.940	ug/L
Carbon disulfide	1.24U	2.00	0.620	ug/L
Carbon tetrachloride	0.620U	1.00	0.310	ug/L
Chlorobenzene	0.300U	0.500	0.150	ug/L
Chloroethane	0.620U	1.00	0.310	ug/L
Chloroform	0.600U	1.00	0.300	ug/L

Print Date: 10/25/2013 1:53:36PM



Method Blank

Blank ID: MB for HBN 1491310 [VXX/25387]

Blank Lab ID: 1187794

QC for Samples:

1135142001, 1135142004

Matrix: Water (Surface, Eff., Ground)

Results by SW8260B

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
Chloromethane	0.620U	1.00	0.310	ug/L
cis-1,2-Dichloroethene	0.620U	1.00	0.310	ug/L
cis-1,3-Dichloropropene	0.300U	0.500	0.150	ug/L
Dibromochloromethane	0.300U	0.500	0.150	ug/L
Dibromomethane	0.620U	1.00	0.310	ug/L
Dichlorodifluoromethane	0.620U	1.00	0.310	ug/L
Ethylbenzene	0.620U	1.00	0.310	ug/L
Hexachlorobutadiene	0.620U	1.00	0.310	ug/L
Isopropylbenzene (Cumene)	0.620U	1.00	0.310	ug/L
Methylene chloride	2.00U	5.00	1.00	ug/L
Methyl-t-butyl ether	3.00U	5.00	1.50	ug/L
Naphthalene	1.24U	2.00	0.620	ug/L
n-Butylbenzene	0.620U	1.00	0.310	ug/L
n-Propylbenzene	0.620U	1.00	0.310	ug/L
o-Xylene	0.620U	1.00	0.310	ug/L
P & M -Xylene	1.24U	2.00	0.620	ug/L
sec-Butylbenzene	0.620U	1.00	0.310	ug/L
Styrene	0.620U	1.00	0.310	ug/L
tert-Butylbenzene	0.620U	1.00	0.310	ug/L
Tetrachloroethene	0.620U	1.00	0.310	ug/L
Toluene	0.620U	1.00	0.310	ug/L
trans-1,2-Dichloroethene	0.620U	1.00	0.310	ug/L
trans-1,3-Dichloropropene	0.620U	1.00	0.310	ug/L
Trichloroethene	0.620U	1.00	0.310	ug/L
Trichlorofluoromethane	0.620U	1.00	0.310	ug/L
Vinyl chloride	0.620U	1.00	0.310	ug/L
Xylenes (total)	1.88U	3.00	0.940	ug/L
Surrogates				
1,2-Dichloroethane-D4	95.3	70-120		%
4-Bromofluorobenzene	97.9	75-120		%
Toluene-d8	99.6	85-120		%

Print Date: 10/25/2013 1:53:36PM



Method Blank

Blank ID: MB for HBN 1491310 [VXX/25387]
Blank Lab ID: 1187794

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1135142001, 1135142004

Results by SW8260B

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
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Batch Information

Analytical Batch: VMS13857
Analytical Method: SW8260B
Instrument: HP 5890 Series II MS1 VJA
Analyst: SCL
Analytical Date/Time: 10/24/2013 11:34:00AM

Prep Batch: VXX25387
Prep Method: SW5030B
Prep Date/Time: 10/23/2013 7:32:32AM
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 10/25/2013 1:53:36PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1135142 [VXX25387]
 Blank Spike Lab ID: 1187795
 Date Analyzed: 10/24/2013 13:07

Spike Duplicate ID: LCSD for HBN 1135142 [VXX25387]
 Spike Duplicate Lab ID: 1187796
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1135142001, 1135142004

Results by SW8260B

Parameter	Blank Spike (ug/L)			Spike Duplicate (ug/L)					
	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
1,1,1,2-Tetrachloroethane	30	29.0	97	30	28.3	94	(80-130)	2.30	(< 20)
1,1,1-Trichloroethane	30	31.0	103	30	33.1	110	(65-130)	6.40	(< 20)
1,1,2,2-Tetrachloroethane	30	30.5	102	30	30.4	101	(65-130)	0.23	(< 20)
1,1,2-Trichloroethane	30	27.5	92	30	27.8	93	(75-125)	1.00	(< 20)
1,1-Dichloroethane	30	32.0	107	30	32.8	109	(70-135)	2.70	(< 20)
1,1-Dichloroethene	30	33.0	110	30	33.5	112	(70-130)	1.60	(< 20)
1,1-Dichloropropene	30	32.1	107	30	35.1	117	(75-130)	8.80	(< 20)
1,2,3-Trichlorobenzene	30	30.8	103	30	31.8	106	(55-140)	3.40	(< 20)
1,2,3-Trichloropropane	30	30.2	101	30	30.4	101	(75-125)	0.56	(< 20)
1,2,4-Trichlorobenzene	30	30.2	101	30	31.1	104	(65-135)	2.80	(< 20)
1,2,4-Trimethylbenzene	30	33.2	111	30	33.2	111	(75-130)	0.06	(< 20)
1,2-Dibromo-3-chloropropane	30	29.1	97	30	33.5	112	(50-130)	14.20	(< 20)
1,2-Dibromoethane	30	27.2	91	30	27.8	93	(80-120)	2.10	(< 20)
1,2-Dichlorobenzene	30	32.6	109	30	31.7	106	(70-120)	3.00	(< 20)
1,2-Dichloroethane	30	29.8	99	30	31.6	105	(70-130)	5.80	(< 20)
1,2-Dichloropropane	30	29.4	98	30	30.6	102	(75-125)	4.10	(< 20)
1,3,5-Trimethylbenzene	30	30.9	103	30	30.7	102	(75-130)	0.75	(< 20)
1,3-Dichlorobenzene	30	32.7	109	30	33.5	112	(75-125)	2.40	(< 20)
1,3-Dichloropropane	30	27.9	93	30	29.0	97	(75-125)	3.90	(< 20)
1,4-Dichlorobenzene	30	31.0	103	30	30.0	100	(75-125)	3.40	(< 20)
2,2-Dichloropropane	30	30.0	100	30	33.5	112	(70-135)	11.10	(< 20)
2-Butanone (MEK)	90	95.1	106	90	107	119	(30-150)	11.90	(< 20)
2-Chlorotoluene	30	30.4	101	30	30.0	100	(75-125)	1.30	(< 20)
2-Hexanone	90	88.0	98	90	92.0	102	(55-130)	4.40	(< 20)
4-Chlorotoluene	30	32.4	108	30	31.9	106	(75-130)	1.50	(< 20)
4-Isopropyltoluene	30	31.8	106	30	31.4	105	(75-130)	1.20	(< 20)
4-Methyl-2-pentanone (MIBK)	90	93.6	104	90	92.2	102	(60-135)	1.60	(< 20)
Benzene	30	30.2	101	30	31.5	105	(80-120)	4.20	(< 20)
Bromobenzene	30	31.7	106	30	31.5	105	(75-125)	0.51	(< 20)
Bromochloromethane	30	31.5	105	30	32.4	108	(65-130)	3.00	(< 20)
Bromodichloromethane	30	28.7	96	30	31.4	105	(75-120)	9.00	(< 20)
Bromoform	30	31.1	104	30	30.7	102	(70-130)	1.10	(< 20)
Bromomethane	30	32.2	107	30	33.4	111	(30-145)	3.60	(< 20)

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 Spike Duplicate Lab ID: 1187796
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1135142001, 1135142004

Results by SW8260B

Parameter	Blank Spike (ug/L)			Spike Duplicate (ug/L)					
	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Carbon disulfide	45	44.7	99	45	46.7	104	(35-160)	4.30	(< 20)
Carbon tetrachloride	30	31.6	105	30	31.7	106	(65-140)	0.41	(< 20)
Chlorobenzene	30	31.1	104	30	29.6	99	(80-120)	4.80	(< 20)
Chloroethane	30	27.7	92	30	30.6	102	(60-135)	10.00	(< 20)
Chloroform	30	32.4	108	30	33.3	111	(65-135)	2.80	(< 20)
Chloromethane	30	26.8	89	30	26.8	89	(40-125)	0.19	(< 20)
cis-1,2-Dichloroethene	30	30.8	103	30	33.1	110	(70-125)	7.10	(< 20)
cis-1,3-Dichloropropene	30	29.1	97	30	29.9	100	(70-130)	2.70	(< 20)
Dibromochloromethane	30	28.1	94	30	28.6	95	(60-135)	1.80	(< 20)
Dibromomethane	30	29.1	97	30	30.4	101	(75-125)	4.40	(< 20)
Dichlorodifluoromethane	30	28.9	96	30	29.9	100	(30-155)	3.60	(< 20)
Ethylbenzene	30	29.7	99	30	30.1	100	(75-125)	1.10	(< 20)
Hexachlorobutadiene	30	29.3	98	30	30.6	102	(50-140)	4.30	(< 20)
Isopropylbenzene (Cumene)	30	31.4	105	30	30.7	102	(75-125)	2.40	(< 20)
Methyl-t-butyl ether	45	44.5	99	45	47.5	106	(65-125)	6.50	(< 20)
Methylene chloride	30	34.0	113	30	33.1	110	(55-140)	2.50	(< 20)
n-Butylbenzene	30	31.6	105	30	31.6	105	(70-135)	0.03	(< 20)
n-Propylbenzene	30	32.2	107	30	31.3	104	(70-130)	2.60	(< 20)
Naphthalene	30	28.0	93	30	29.5	98	(55-140)	5.00	(< 20)
o-Xylene	30	30.4	101	30	30.5	102	(80-120)	0.30	(< 20)
P & M -Xylene	60	59.8	100	60	59.4	99	(75-130)	0.67	(< 20)
sec-Butylbenzene	30	34.7	116	30	34.3	114	(70-125)	1.20	(< 20)
Styrene	30	28.7	96	30	28.4	95	(65-135)	0.95	(< 20)
tert-Butylbenzene	30	34.4	115	30	32.6	109	(70-130)	5.30	(< 20)
Tetrachloroethene	30	32.7	109	30	32.3	108	(45-150)	1.30	(< 20)
Toluene	30	33.6	112	30	33.6	112	(75-120)	0.03	(< 20)
trans-1,2-Dichloroethene	30	31.1	104	30	30.8	103	(60-140)	0.94	(< 20)
trans-1,3-Dichloropropene	30	30.8	103	30	32.6	109	(55-140)	5.60	(< 20)
Trichloroethene	30	30.7	102	30	32.1	107	(70-125)	4.50	(< 20)
Trichlorofluoromethane	30	29.9	100	30	34.1	114	(60-145)	13.10	(< 20)
Vinyl chloride	30	30.3	101	30	30.7	102	(50-145)	1.50	(< 20)
Xylenes (total)	90	90.2	100	90	89.9	100	(80-120)	0.34	(< 20)

Surrogates

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 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1135142001, 1135142004

Results by SW8260B

Parameter	Blank Spike (%)			Spike Duplicate (%)					
	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
1,2-Dichloroethane-D4	30	95.4	95	30	101	101	(70-120)	5.30	
4-Bromofluorobenzene	30	98.8	99	30	95.7	96	(75-120)	3.30	
Toluene-d8	30	104	104	30	100	100	(85-120)	3.00	

Batch Information

Analytical Batch: VMS13857
 Analytical Method: SW8260B
 Instrument: HP 5890 Series II MS1 VJA
 Analyst: SCL

Prep Batch: VXX25387
 Prep Method: SW5030B
 Prep Date/Time: 10/23/2013 07:32
 Spike Init Wt./Vol.: 30 ug/L Extract Vol: 5 mL
 Dupe Init Wt./Vol.: 30 ug/L Extract Vol: 5 mL

Print Date: 10/25/2013 1:53:37PM



SGS North America Inc.
CHAIN OF CUSTODY RECORD

1135142



CLIENT: RESCON ALASKA PHONE NO: 907-317-2473 Page 1 of 1

INSTRUCTIONS: Sections 1 - 5 must be filled out. Omissions may delay the onset of analysis.

CONTACT: NATE OBERLEE PROJECT PWSID/ PERMIT#: PRESERVATIVE

PROJECT NAME: GREEN TANK E-MAIL: NATE OBERLEE @ RESCONALASKA.COM

REPORTS TO: NATE OBERLEE QUOTE #:

INVOICE TO: NATE OBERLEE P.O. #: 13-007

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX CODE	CONTAINERS		Type C = COMP G = GRAB M = Multi-Incre-mental S = Soils	Section 3					REMARKS/ LOC ID	
					#									
<u>1</u> A-C	<u>MW-120</u>	<u>10/14/13</u>	<u>1100</u>	<u>W</u>	<u>3</u>	<u>9</u>	<u>9</u>	<u>X</u>	<u>HL</u>	<u>82608</u>	<u>82608</u>	<u>82608</u>	<u>82608</u>	
<u>2</u> A-B	<u>DC-1</u>	<u>10/14/13</u>	<u>1130</u>	<u>S</u>	<u>2</u>	<u>9</u>	<u>9</u>	<u>X</u>	<u>VOC</u>	<u>82608</u>	<u>82608</u>	<u>82608</u>	<u>82608</u>	
<u>3</u> A	<u>TRIP BLANK</u>	<u>10/14/13</u>		<u>S</u>				<u>X</u>	<u>VOC</u>					
<u>4</u> A-C	<u>TRB-1</u>	<u>10/14/13</u>		<u>W</u>				<u>X</u>	<u>VOC</u>					

Section 4 DOD Project? Yes/No Data Deliverable Requirements:

Cooler ID:

Requested Turnaround Time and/or Special Instructions: STANDARD TAT

Temp Blank °C: 4.2 / #240 Chain of Custody Seal: (Circle) ABSENT

or Ambient []

(See attached Sample Receipt Form) (See attached Sample Receipt Form)

Relinquished By: (1) [Signature] Date: 10/14/13 Time: 12:30 Received By:

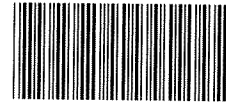
Relinquished By: (2) Date: Time: Received By:

Relinquished By: (3) Date: Time: Received By:

Relinquished By: (4) [Signature] Date: 10/14/13 Time: 12:47 Received For Laboratory By: [Signature]



1135142



SAMPLE RECEIPT FORM

Review Criteria:	Condition:	Comments/Action Taken:
Were custody seals intact? Note # & location, if applicable. COC accompanied samples?	Yes No <u>N/A</u> Yes No N/A	
Temperature blank compliant* (i.e., 0-6°C after CF)? <i>* Note: Exemption permitted for chilled samples collected less than 8 hours ago.</i> Cooler ID: <u>1</u> @ <u>4.2</u> w/ Therm.ID: <u>240</u> Cooler ID: _____ @ _____ w/ Therm.ID: _____ Cooler ID: _____ @ _____ w/ Therm.ID: _____ Cooler ID: _____ @ _____ w/ Therm.ID: _____ Cooler ID: _____ @ _____ w/ Therm.ID: _____ <i>Note: If non-compliant, use form FS-0029 to document affected samples/analyses.</i> If samples are received without a temperature blank, the "cooler temperature" will be documented in lieu of the temperature blank & "COOLER TEMP" will be noted to the right. In cases where neither a temp blank nor cooler temp can be obtained, note "ambient" or "chilled." If temperature(s) <0°C, were all sample containers ice free?	Yes No <u>N/A</u> Yes No <u>N/A</u>	
Delivery method (specify all that apply): <u>Client</u> USPS Alert Courier C&D Delivery AK Air Lynden Carlile ERA PenAir FedEx UPS NAC Other: → For WO# with airbills, was the WO# & airbill info recorded in the Front Counter eLog?	Note ABN/tracking # See Attached or <u>N/A</u> Yes No <u>N/A</u>	
→ For samples received with payment, note amount (\$) and cash / check / CC (circle one) or note: → For samples received in FBKS, ANCH staff will verify all criteria are reviewed.		<u>N/A</u> SRF Initiated by: <u>SLC</u> N/A
Were samples received within hold time? <i>Note: Refer to form F-083 "Sample Guide" for hold time information.</i> Do samples match COC* (i.e., sample IDs, dates/times collected)? <i>* Note: Exemption permitted if times differ <1hr; in that case, use times on COC.</i> Were analyses requested unambiguous?	<u>Yes</u> No N/A <u>Yes</u> No N/A <u>Yes</u> No N/A	
Were samples in good condition (no leaks/cracks/breakage)? Packing material used (specify all that apply): <u>Bubble Wrap</u> Separate plastic bags Vermiculite Other:	<u>Yes</u> No N/A	
Were all VOA vials free of headspace (i.e., bubbles ≤6 mm)? Were all soil VOAs field extracted with MeOH+BFB?	<u>Yes</u> No N/A <u>Yes</u> No N/A	
Were proper containers (type/mass/volume/preservative*) used? <i>* Note: Exemption permitted for waters to be analyzed for metals.</i> Were Trip Blanks (i.e., VOAs, LL-Hg) in cooler with samples?	<u>Yes</u> No N/A <u>Yes</u> No N/A	
For special handling (e.g., "MI" or foreign soils, lab filter, limited volume, Ref Lab), were bottles/paperwork flagged (e.g., sticker)?	Yes No <u>N/A</u>	
For preserved waters (other than VOA vials, LL-Mercury or microbiological analyses), was pH verified and compliant? If pH was adjusted, were bottles flagged (i.e., stickers)?	Yes No <u>N/A</u> Yes No <u>N/A</u>	
For RUSH/SHORT Hold Time, were COC/Bottles flagged accordingly? Was Rush/Short HT email sent, if applicable?	Yes No <u>N/A</u>	
For SITE-SPECIFIC QC, e.g. BMS/BMSD/BDUP, were containers / paperwork flagged accordingly?	Yes No <u>N/A</u>	
For any question answered "No," has the PM been notified and the problem resolved (or paperwork put in their bin)?	Yes No <u>N/A</u>	SRF Completed by: <u>SLC</u> 10/14/13 PM = N/A
Was PEER REVIEW of sample numbering/labeling completed?	Yes No <u>N/A</u>	Peer Reviewed by: N/A
Additional notes (if applicable):		

Note to Client: Any "no" circled above indicates non-compliance with standard procedures and may impact data quality.