ENERGYSOLUTIONS

July 12, 2011
Ref. No. 31129-095

Mr. Jaspal Walia, P.E.
Project Manager
New York State Department of Environmental Conservation, Region 9
270 Michigan Avenue
Buffalo, NY 14203-2999

Subject: Subslab Groundwater Sampling Results
Leica Facility
Cheektowaga, New York
Inactive Hazardous Waste Disposal Site No. 915156

Dear Mr. Walia:

As we discussed on the phone, enclosed you will find a data summary table, a copy of the laboratory report, and a location map for the five groundwater grab samples that were collected from the temporary wells installed within the building (Int-1 through Int-5) and the one sample collected from outside the building (Ext-1) at the Leica site on June 8, 2011.

Based on these results, we are currently preparing a plan to collect additional subslab soil gas samples within the building. The goal of this additional sub-slab sampling will be to secure data which will allow us to confirm where the potential source of these elevated concentrations of VOCs in the groundwater is located. We anticipate submission of the soil gas sampling plan for your review by August 5, 2011.

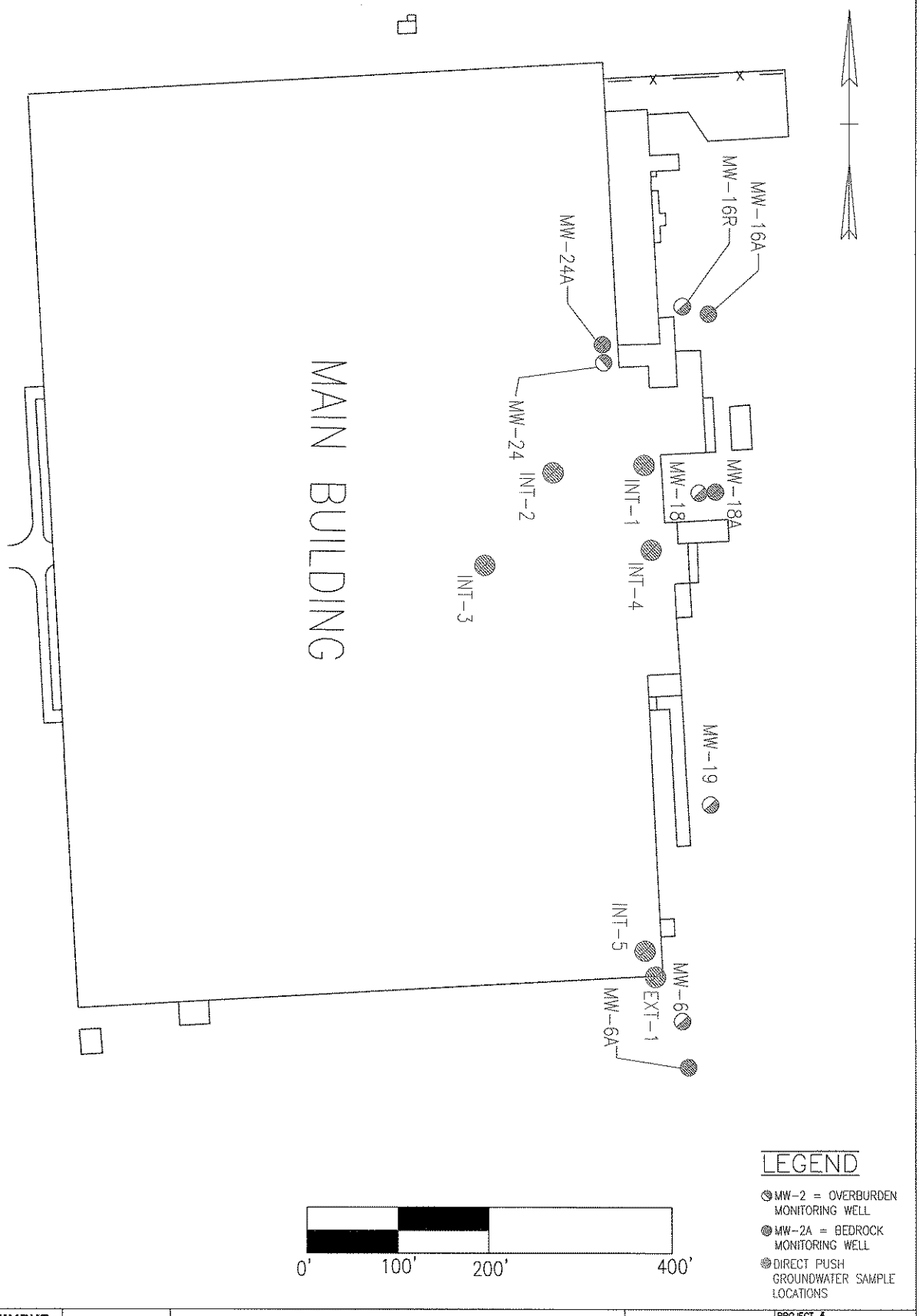
In the interim, if you have any questions, please feel free to call me at 801.303.1092.

Sincerely,

Paul W. Mattell For

Robert E. McPeak, Jr., P.E., LEP
Project Manager, Environmental Services

REM/lhc
Attachments
cc: C. Grabinski
M. Forcucci
J. Egan



LEGEND

- MW-2 = OVERBURDEN MONITORING WELL
- MW-2A = BEDROCK MONITORING WELL
- DIRECT PUSH GROUNDWATER SAMPLE LOCATIONS

DOCUMENT CONTROL NO.	PROJECT	LEICA MICROSYSTEMS INC. 203 EGGERT RD CHEEKTOWAGA, NY	ENERGYSOLUTIONS 100 MILL PLAIN RD DANBURY, CT. 06811 (203)797-8301	PROJECT # 137015 FILENAME:
REVISION NO.	DRAWING	Geoprobe Groundwater Sampling Locations		SCALE: See Scalebar DATE: 7/8/11 BY: MT CK: RM FIGURE # 1

Geoprobe Grab Groundwater Samples
Leica, June 2011

Location	TCE	Cis DCE	VC
INT-1	ND	ND	ND
INT-2	82,000	9,100	ND
INT-3	200	120	1.4J
INT-4	830	1,300	140
INT-5	0.36J	0.84J	2.4J
EXT-1	0.35J	0.43J	ND

Columbia Analytical Services™ 1 Mustard Street, Suite 250 | Rochester, NY 14609 | 585-288-5380 | 585-288-8475 fax | www.caslab.com

June 24, 2011 Service Request No: R1103249

Mr. Robert McPeak
Energy Solutions, Inc.
100 Mill Plain Rd
2nd Floor Mailbox 106
Danbury, CT 06811

Laboratory Results for: Leica 137015

Dear Mr. McPeak:

Enclosed are the results of the sample(s) submitted to our laboratory on June 9, 2011. For your reference, these analyses have been assigned our service request number **R1103249**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 134. You may also contact me via email at KBunker@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Karen Bunker
Project Manager

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	Energy Solutions	**Service Request No.:**	R1103249
Project:	Leica 137015	**Date Received:**	6/9/2011
Sample Matrix:	Water		

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses.

Sample Receipt

Six (6) samples including one (1) Trip Blank were collected by the client on 6/9/11 and received for analysis at Columbia Analytical Services on the same day as sampled via CAS Courier. The samples were received in good condition. The cooler receipt temperatures were between 3-5°C, within the guidelines of 0-6°C.

Volatile Organics

Seven (7) water samples were analyzed for Volatile Organic compounds by GC/MS method 8260C.

The Continuing Calibration Verification (CCV) standard exceeded 20% Difference criteria for Carbon Tetrachloride on 6/16/11. All detected concentrations for this compound in samples associated with this CCV should be considered as estimated, however no hits were found.

Batch QC is included in the report. All Laboratory Control Sample (LCS) recoveries for target compounds were within QC limits.

Hits above the calibration range of the standards are flagged as "E", estimated. The sample is then repeated at the appropriate dilution for the hit. Both sets of data are included in the report. The subsequent hit is flagged as "D".

Hits between the Minimum Detection Limit (MDL) and Method Reporting Limit (MRL) have been flagged as "J", estimated.

All Surrogate recoveries are within acceptance limits.

All Laboratory Method Blanks and Trip Blank were free from contamination.

The samples were analyzed within the 14 day holding time for the method. All vials are checked for preservation after the analysis in order to maintain the integrity of the sample. All vials were found to be preserved to a pH of <2.

No problems were encountered during the analysis of these samples.

Approved by _____ **Date** 6/24/11

CASE NARRATIVE

This report contains analytical results for the following samples:
Service Request Number: R1103249

Lab ID	Client ID
R1103249-001	INT-1
R1103249-002	INT-2
R1103249-003	INT-3
R1103249-004	INT-4
R1103249-005	INT-5
R1103249-006	EXT-1
R1103249-007	TRIP BLANK

Columbia Analytical Services INC

REPORT QUALIFIERS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
E	Organics- Concentration has exceeded the calibration range for that specific analysis.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.
#	Spike was diluted out.
+	Correlation coefficient for MSA is <0.995.
N	Inorganics- Matrix spike recovery was outside laboratory limits.
N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
S	Concentration has been determined using Method of Standard Additions (MSA).
W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
P	Concentration >40% (25% for CLP) difference between the two GC columns.
C	Confirmed by GC/MS
Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).
X	See Case Narrative for discussion.

CAS/Rochester Lab ID # for State Certifications[1]

NELAP Accredited
Connecticut ID # PH0556
Delaware Accredited
DoD ELAP #65817
Florida ID # E87674
Illinois ID #200047
Maine ID #NY0032
Nebraska Accredited
Nevada ID # NY-00032
New Jersey ID # NY004
New York ID # 10145
New Hampshire ID # 294100 A/B
Pennsylvania ID# 68-786
Rhode Island ID # 158

[1] Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable, except as noted in the laboratory case narrative provided. For a specific list of accredited analytes, refer to the certifications section at www.caslab.com.

Client:	Energy Solutions	**Service Request:**	R1103249
Project:	Leica 137015	**Date Collected:**	6/ 8/11 1100
Sample Matrix:	Water	**Date Received:**	6/ 9/11
		Date Analyzed:	6/16/11 18:17
Sample Name:	INT-1	**Units:**	µg/L
Lab Code:	R1103249-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	250237
Data File Name:	J:\ACQUDATA\msvoa10\data\061611\D3090.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
67-64-1	Acetone	**3.0**	J	20	1.6	
71-43-2	Benzene	5.0	U	5.0	0.31	
75-27-4	Bromodichloromethane	5.0	U	5.0	0.41	
75-25-2	Bromoform	5.0	U	5.0	0.30	
74-83-9	Bromomethane	5.0	U	5.0	0.40	
78-93-3	2-Butanone (MEK)	10	U	10	1.0	
75-15-0	Carbon Disulfide	10	U	10	0.35	
56-23-5	Carbon Tetrachloride	5.0	U	5.0	0.36	
108-90-7	Chlorobenzene	5.0	U	5.0	0.30	
75-00-3	Chloroethane	5.0	U	5.0	0.30	
67-66-3	Chloroform	5.0	U	5.0	0.30	
74-87-3	Chloromethane	5.0	U	5.0	0.46	
124-48-1	Dibromochloromethane	5.0	U	5.0	0.30	
75-34-3	1,1-Dichloroethane	5.0	U	5.0	0.30	
107-06-2	1,2-Dichloroethane	5.0	U	5.0	0.30	
75-35-4	1,1-Dichloroethene	5.0	U	5.0	0.37	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.30	
78-87-5	1,2-Dichloropropane	5.0	U	5.0	0.66	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	0.30	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	0.30	
100-41-4	Ethylbenzene	5.0	U	5.0	0.42	
591-78-6	2-Hexanone	10	U	10	0.40	
75-09-2	Methylene Chloride	5.0	U	5.0	0.30	
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	0.34	
100-42-5	Styrene	5.0	U	5.0	0.35	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.30	
127-18-4	Tetrachloroethene	5.0	U	5.0	0.42	
108-88-3	Toluene	5.0	U	5.0	0.30	
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	0.30	
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	0.30	
79-01-6	Trichloroethene	5.0	U	5.0	0.30	
75-01-4	Vinyl Chloride	5.0	U	5.0	0.30	
95-47-6	o-Xylene	5.0	U	5.0	0.40	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Energy Solutions	**Service Request:**	R1103249
Project:	Leica 137015	**Date Collected:**	6/ 8/11 1100
Sample Matrix:	Water	**Date Received:**	6/ 9/11
		Date Analyzed:	6/16/11 18:17
Sample Name:	INT-1	**Units:**	µg/L
Lab Code:	R1103249-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	250237
Data File Name:	J:\ACQUDATA\msvoa10\data\061611\D3090.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
179601-23-1	m,p-Xylenes	5.0	U	5.0	0.81	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	118	85-122	6/16/11 18:17	
Toluene-d8	109	87-121	6/16/11 18:17	
Dibromofluoromethane	119	89-119	6/16/11 18:17	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Energy Solutions	**Service Request:**	R1103249
Project:	Leica 137015	**Date Collected:**	6/ 8/11 1145
Sample Matrix:	Water	**Date Received:**	6/ 9/11
		Date Analyzed:	6/17/11 18:22
Sample Name:	INT-2	**Units:**	µg/L
Lab Code:	R1103249-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	250452
Data File Name:	J:\ACQUDATA\MSVOA12\DATA\061711\U8470.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	250

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
67-64-1	Acetone	5000	U	5000	400	
71-43-2	Benzene	1300	U	1300	78	
75-27-4	Bromodichloromethane	1300	U	1300	110	
75-25-2	Bromoform	1300	U	1300	75	
74-83-9	Bromomethane	1300	U	1300	100	
78-93-3	2-Butanone (MEK)	2500	U	2500	250	
75-15-0	Carbon Disulfide	2500	U	2500	88	
56-23-5	Carbon Tetrachloride	1300	U	1300	90	
108-90-7	Chlorobenzene	1300	U	1300	75	
75-00-3	Chloroethane	1300	U	1300	75	
67-66-3	Chloroform	1300	U	1300	75	
74-87-3	Chloromethane	1300	U	1300	120	
124-48-1	Dibromochloromethane	1300	U	1300	75	
75-34-3	1,1-Dichloroethane	1300	U	1300	75	
107-06-2	1,2-Dichloroethane	1300	U	1300	75	
75-35-4	1,1-Dichloroethene	1300	U	1300	93	
156-59-2	cis-1,2-Dichloroethene	**8200**		1300	75	
156-60-5	trans-1,2-Dichloroethene	**520**	J	1300	75	
78-87-5	1,2-Dichloropropane	1300	U	1300	170	
10061-01-5	cis-1,3-Dichloropropene	1300	U	1300	75	
10061-02-6	trans-1,3-Dichloropropene	1300	U	1300	75	
100-41-4	Ethylbenzene	1300	U	1300	110	
591-78-6	2-Hexanone	2500	U	2500	100	
75-09-2	Methylene Chloride	1300	U	1300	75	
108-10-1	4-Methyl-2-pentanone (MIBK)	2500	U	2500	85	
100-42-5	Styrene	1300	U	1300	88	
79-34-5	1,1,2,2-Tetrachloroethane	1300	U	1300	75	
127-18-4	Tetrachloroethene	**160**	J	1300	110	
108-88-3	Toluene	1300	U	1300	75	
71-55-6	1,1,1-Trichloroethane	1300	U	1300	75	
79-00-5	1,1,2-Trichloroethane	1300	U	1300	75	
79-01-6	Trichloroethene	**75000**	E	1300	75	
75-01-4	Vinyl Chloride	1300	U	1300	75	
95-47-6	o-Xylene	1300	U	1300	100	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Energy Solutions	**Service Request:**	R1103249
Project:	Leica 137015	**Date Collected:**	6/ 8/11 1145
Sample Matrix:	Water	**Date Received:**	6/ 9/11
		Date Analyzed:	6/17/11 18:22
Sample Name:	INT-2	**Units:**	µg/L
Lab Code:	R1103249-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	250452
Data File Name:	J:\ACQUDATA\MSVOA12\DATA\061711\U8470.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	250

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
179601-23-1	m,p-Xylenes	1300	U	1300	210	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85-122	6/17/11 18:22	
Toluene-d8	106	87-121	6/17/11 18:22	
Dibromofluoromethane	102	89-119	6/17/11 18:22	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Energy Solutions	**Service Request:**	R1103249
Project:	Leica 137015	**Date Collected:**	6/ 8/11 1145
Sample Matrix:	Water	**Date Received:**	6/ 9/11
		Date Analyzed:	6/20/11 18:52
Sample Name:	INT-2	**Units:**	µg/L
Lab Code:	R1103249-002	**Basis:**	NA
Run Type:	Dilution		

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	250688
Data File Name:	J:\ACQUDATA\msvoa12\Data\062011\U8497.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	500

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
67-64-1	Acetone	10000	U	10000	800	
71-43-2	Benzene	2500	U	2500	160	
75-27-4	Bromodichloromethane	2500	U	2500	210	
75-25-2	Bromoform	2500	U	2500	150	
74-83-9	Bromomethane	2500	U	2500	200	
78-93-3	2-Butanone (MEK)	5000	U	5000	500	
75-15-0	Carbon Disulfide	5000	U	5000	180	
56-23-5	Carbon Tetrachloride	2500	U	2500	180	
108-90-7	Chlorobenzene	2500	U	2500	150	
75-00-3	Chloroethane	2500	U	2500	150	
67-66-3	Chloroform	2500	U	2500	150	
74-87-3	Chloromethane	2500	U	2500	230	
124-48-1	Dibromochloromethane	2500	U	2500	150	
75-34-3	1,1-Dichloroethane	2500	U	2500	150	
107-06-2	1,2-Dichloroethane	2500	U	2500	150	
75-35-4	1,1-Dichloroethene	2500	U	2500	190	
156-59-2	cis-1,2-Dichloroethene	**9100**	D	2500	150	
156-60-5	trans-1,2-Dichloroethene	**600**	DJ	2500	150	
78-87-5	1,2-Dichloropropane	2500	U	2500	330	
10061-01-5	cis-1,3-Dichloropropene	2500	U	2500	150	
10061-02-6	trans-1,3-Dichloropropene	2500	U	2500	150	
100-41-4	Ethylbenzene	2500	U	2500	210	
591-78-6	2-Hexanone	5000	U	5000	200	
75-09-2	Methylene Chloride	2500	U	2500	150	
108-10-1	4-Methyl-2-pentanone (MIBK)	5000	U	5000	170	
100-42-5	Styrene	2500	U	2500	180	
79-34-5	1,1,2,2-Tetrachloroethane	2500	U	2500	150	
127-18-4	Tetrachloroethene	2500	U	2500	210	
108-88-3	Toluene	2500	U	2500	150	
71-55-6	1,1,1-Trichloroethane	2500	U	2500	150	
79-00-5	1,1,2-Trichloroethane	2500	U	2500	150	
79-01-6	Trichloroethene	**82000**	D	2500	150	
75-01-4	Vinyl Chloride	2500	U	2500	150	
95-47-6	o-Xylene	2500	U	2500	200	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Energy Solutions	**Service Request:**	R1103249
Project:	Leica 137015	**Date Collected:**	6/ 8/11 1145
Sample Matrix:	Water	**Date Received:**	6/ 9/11
		Date Analyzed:	6/20/11 18:52
Sample Name:	INT-2	**Units:**	µg/L
Lab Code:	R1103249-002	**Basis:**	NA
Run Type:	Dilution		

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	250688
Data File Name:	J:\ACQUDATA\msvoa12\Data\062011\U8497.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	500

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
179601-23-1	m,p-Xylenes	2500	U	2500	410	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	106	85-122	6/20/11 18:52	
Toluene-d8	108	87-121	6/20/11 18:52	
Dibromofluoromethane	105	89-119	6/20/11 18:52	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Energy Solutions	**Service Request:**	R1103249
Project:	Leica 137015	**Date Collected:**	6/ 8/11 1220
Sample Matrix:	Water	**Date Received:**	6/ 9/11
		Date Analyzed:	6/17/11 15:51
Sample Name:	INT-3	**Units:**	µg/L
Lab Code:	R1103249-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	250452
Data File Name:	J:\ACQUDATA\MSVOA12\DATA\061711\U8465.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
67-64-1	Acetone	**2.5**	J	20	1.6	
71-43-2	Benzene	**0.34**	J	5.0	0.31	
75-27-4	Bromodichloromethane	5.0	U	5.0	0.41	
75-25-2	Bromoform	5.0	U	5.0	0.30	
74-83-9	Bromomethane	5.0	U	5.0	0.40	
78-93-3	2-Butanone (MEK)	10	U	10	1.0	
75-15-0	Carbon Disulfide	10	U	10	0.35	
56-23-5	Carbon Tetrachloride	5.0	U	5.0	0.36	
108-90-7	Chlorobenzene	5.0	U	5.0	0.30	
75-00-3	Chloroethane	5.0	U	5.0	0.30	
67-66-3	Chloroform	**0.34**	J	5.0	0.30	
74-87-3	Chloromethane	5.0	U	5.0	0.46	
124-48-1	Dibromochloromethane	5.0	U	5.0	0.30	
75-34-3	1,1-Dichloroethane	**1.3**	J	5.0	0.30	
107-06-2	1,2-Dichloroethane	5.0	U	5.0	0.30	
75-35-4	1,1-Dichloroethene	**2.0**	J	5.0	0.37	
156-59-2	cis-1,2-Dichloroethene	**140**		5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	**3.6**	J	5.0	0.30	
78-87-5	1,2-Dichloropropane	5.0	U	5.0	0.66	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	0.30	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	0.30	
100-41-4	Ethylbenzene	5.0	U	5.0	0.42	
591-78-6	2-Hexanone	10	U	10	0.40	
75-09-2	Methylene Chloride	5.0	U	5.0	0.30	
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	0.34	
100-42-5	Styrene	5.0	U	5.0	0.35	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.30	
127-18-4	Tetrachloroethene	5.0	U	5.0	0.42	
108-88-3	Toluene	**0.56**	J	5.0	0.30	
71-55-6	1,1,1-Trichloroethane	**0.68**	J	5.0	0.30	
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	0.30	
79-01-6	Trichloroethene	**230**	E	5.0	0.30	
75-01-4	Vinyl Chloride	**1.7**	J	5.0	0.30	
95-47-6	o-Xylene	5.0	U	5.0	0.40	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Energy Solutions	**Service Request:**	R1103249
Project:	Leica 137015	**Date Collected:**	6/ 8/11 1220
Sample Matrix:	Water	**Date Received:**	6/ 9/11
		Date Analyzed:	6/17/11 15:51
Sample Name:	INT-3	**Units:**	µg/L
Lab Code:	R1103249-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	250452
Data File Name:	J:\ACQUDATA\MSVOA12\DATA\061711\U8465.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
179601-23-1	m,p-Xylenes	5.0	U	5.0	0.81	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85-122	6/17/11 15:51	
Toluene-d8	105	87-121	6/17/11 15:51	
Dibromofluoromethane	104	89-119	6/17/11 15:51	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Energy Solutions	**Service Request:**	R1103249
Project:	Leica 137015	**Date Collected:**	6/ 8/11 1220
Sample Matrix:	Water	**Date Received:**	6/ 9/11
		Date Analyzed:	6/17/11 16:21
Sample Name:	INT-3	**Units:**	µg/L
Lab Code:	R1103249-003	**Basis:**	NA
Run Type:	Dilution		

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	250452
Data File Name:	J:\ACQUDATA\MSVOA12\DATA\061711\U8466.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	2

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
67-64-1	Acetone	**5.0**	DJ	40	3.2	
71-43-2	Benzene	10	U	10	0.62	
75-27-4	Bromodichloromethane	10	U	10	0.82	
75-25-2	Bromoform	10	U	10	0.60	
74-83-9	Bromomethane	10	U	10	0.80	
78-93-3	2-Butanone (MEK)	20	U	20	2.0	
75-15-0	Carbon Disulfide	20	U	20	0.70	
56-23-5	Carbon Tetrachloride	10	U	10	0.72	
108-90-7	Chlorobenzene	10	U	10	0.60	
75-00-3	Chloroethane	10	U	10	0.60	
67-66-3	Chloroform	10	U	10	0.60	
74-87-3	Chloromethane	10	U	10	0.92	
124-48-1	Dibromochloromethane	10	U	10	0.60	
75-34-3	1,1-Dichloroethane	**1.1**	DJ	10	0.60	
107-06-2	1,2-Dichloroethane	10	U	10	0.60	
75-35-4	1,1-Dichloroethene	**1.6**	DJ	10	0.74	
156-59-2	cis-1,2-Dichloroethene	**120**	D	10	0.60	
156-60-5	trans-1,2-Dichloroethene	**3.0**	DJ	10	0.60	
78-87-5	1,2-Dichloropropane	10	U	10	1.4	
10061-01-5	cis-1,3-Dichloropropene	10	U	10	0.60	
10061-02-6	trans-1,3-Dichloropropene	10	U	10	0.60	
100-41-4	Ethylbenzene	10	U	10	0.84	
591-78-6	2-Hexanone	20	U	20	0.80	
75-09-2	Methylene Chloride	10	U	10	0.60	
108-10-1	4-Methyl-2-pentanone (MIBK)	20	U	20	0.68	
100-42-5	Styrene	10	U	10	0.70	
79-34-5	1,1,2,2-Tetrachloroethane	10	U	10	0.60	
127-18-4	Tetrachloroethene	10	U	10	0.84	
108-88-3	Toluene	10	U	10	0.60	
71-55-6	1,1,1-Trichloroethane	**0.68**	DJ	10	0.60	
79-00-5	1,1,2-Trichloroethane	10	U	10	0.60	
79-01-6	Trichloroethene	**200**	D	10	0.60	
75-01-4	Vinyl Chloride	**1.4**	DJ	10	0.60	
95-47-6	o-Xylene	10	U	10	0.80	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Energy Solutions	**Service Request:**	R1103249
Project:	Leica 137015	**Date Collected:**	6/ 8/11 1220
Sample Matrix:	Water	**Date Received:**	6/ 9/11
		Date Analyzed:	6/17/11 16:21
Sample Name:	INT-3	**Units:**	µg/L
Lab Code:	R1103249-003	**Basis:**	NA
Run Type:	Dilution		

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	250452
Data File Name:	J:\ACQUDATA\MSVOA12\DATA\061711\U8466.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	2

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
179601-23-1	m,p-Xylenes	10	U	10	1.7	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85-122	6/17/11 16:21	
Toluene-d8	104	87-121	6/17/11 16:21	
Dibromofluoromethane	103	89-119	6/17/11 16:21	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Energy Solutions	**Service Request:**	R1103249
Project:	Leica 137015	**Date Collected:**	6/ 8/11 1335
Sample Matrix:	Water	**Date Received:**	6/ 9/11
		Date Analyzed:	6/17/11 17:52
Sample Name:	INT-4	**Units:**	µg/L
Lab Code:	R1103249-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	250452
Data File Name:	J:\ACQUDATA\MSVOA12\DATA\061711\U8469.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	10

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
67-64-1	Acetone	200	U	200	16	
71-43-2	Benzene	50	U	50	3.1	
75-27-4	Bromodichloromethane	50	U	50	4.1	
75-25-2	Bromoform	50	U	50	3.0	
74-83-9	Bromomethane	50	U	50	4.0	
78-93-3	2-Butanone (MEK)	100	U	100	10	
75-15-0	Carbon Disulfide	100	U	100	3.5	
56-23-5	Carbon Tetrachloride	50	U	50	3.6	
108-90-7	Chlorobenzene	50	U	50	3.0	
75-00-3	Chloroethane	50	U	50	3.0	
67-66-3	Chloroform	50	U	50	3.0	
74-87-3	Chloromethane	50	U	50	4.7	
124-48-1	Dibromochloromethane	50	U	50	3.0	
75-34-3	1,1-Dichloroethane	50	U	50	3.0	
107-06-2	1,2-Dichloroethane	50	U	50	3.0	
75-35-4	1,1-Dichloroethene	**5.7**	J	50	3.7	
156-59-2	cis-1,2-Dichloroethene	**1300**		50	3.0	
156-60-5	trans-1,2-Dichloroethene	**73**		50	3.0	
78-87-5	1,2-Dichloropropane	50	U	50	6.7	
10061-01-5	cis-1,3-Dichloropropene	50	U	50	3.0	
10061-02-6	trans-1,3-Dichloropropene	50	U	50	3.0	
100-41-4	Ethylbenzene	50	U	50	4.2	
591-78-6	2-Hexanone	100	U	100	4.0	
75-09-2	Methylene Chloride	50	U	50	3.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	100	U	100	3.5	
100-42-5	Styrene	50	U	50	3.5	
79-34-5	1,1,2,2-Tetrachloroethane	50	U	50	3.0	
127-18-4	Tetrachloroethene	50	U	50	4.2	
108-88-3	Toluene	50	U	50	3.0	
71-55-6	1,1,1-Trichloroethane	50	U	50	3.0	
79-00-5	1,1,2-Trichloroethane	50	U	50	3.0	
79-01-6	Trichloroethene	**830**		50	3.0	
75-01-4	Vinyl Chloride	**140**		50	3.0	
95-47-6	o-Xylene	50	U	50	4.0	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Energy Solutions	**Service Request:**	R1103249
Project:	Leica 137015	**Date Collected:**	6/ 8/11 1335
Sample Matrix:	Water	**Date Received:**	6/ 9/11
		Date Analyzed:	6/17/11 17:52
Sample Name:	INT-4	**Units:**	µg/L
Lab Code:	R1103249-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	250452
Data File Name:	J:\ACQUDATA\MSVOA12\DATA\061711\U8469.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	10

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
179601-23-1	m,p-Xylenes	50	U	50	8.2	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85-122	6/17/11 17:52	
Toluene-d8	104	87-121	6/17/11 17:52	
Dibromofluoromethane	104	89-119	6/17/11 17:52	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Energy Solutions	**Service Request:**	R1103249
Project:	Leica 137015	**Date Collected:**	6/ 8/11 1430
Sample Matrix:	Water	**Date Received:**	6/ 9/11
		Date Analyzed:	6/17/11 16:51
Sample Name:	INT-5	**Units:**	µg/L
Lab Code:	R1103249-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	250452
Data File Name:	J:\ACQUDATA\MSVOA12\DATA\061711\U8467.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
67-64-1	Acetone	**15**	J	20	1.6	
71-43-2	Benzene	5.0	U	5.0	0.31	
75-27-4	Bromodichloromethane	5.0	U	5.0	0.41	
75-25-2	Bromoform	5.0	U	5.0	0.30	
74-83-9	Bromomethane	5.0	U	5.0	0.40	
78-93-3	2-Butanone (MEK)	**2.8**	J	10	1.0	
75-15-0	Carbon Disulfide	10	U	10	0.35	
56-23-5	Carbon Tetrachloride	5.0	U	5.0	0.36	
108-90-7	Chlorobenzene	5.0	U	5.0	0.30	
75-00-3	Chloroethane	5.0	U	5.0	0.30	
67-66-3	Chloroform	5.0	U	5.0	0.30	
74-87-3	Chloromethane	5.0	U	5.0	0.46	
124-48-1	Dibromochloromethane	5.0	U	5.0	0.30	
75-34-3	1,1-Dichloroethane	**0.72**	J	5.0	0.30	
107-06-2	1,2-Dichloroethane	5.0	U	5.0	0.30	
75-35-4	1,1-Dichloroethene	5.0	U	5.0	0.37	
156-59-2	cis-1,2-Dichloroethene	**0.84**	J	5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.30	
78-87-5	1,2-Dichloropropane	5.0	U	5.0	0.66	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	0.30	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	0.30	
100-41-4	Ethylbenzene	5.0	U	5.0	0.42	
591-78-6	2-Hexanone	10	U	10	0.40	
75-09-2	Methylene Chloride	5.0	U	5.0	0.30	
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	0.34	
100-42-5	Styrene	5.0	U	5.0	0.35	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.30	
127-18-4	Tetrachloroethene	5.0	U	5.0	0.42	
108-88-3	Toluene	5.0	U	5.0	0.30	
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	0.30	
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	0.30	
79-01-6	Trichloroethene	**0.36**	J	5.0	0.30	
75-01-4	Vinyl Chloride	**2.4**	J	5.0	0.30	
95-47-6	o-Xylene	5.0	U	5.0	0.40	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Energy Solutions	**Service Request:**	R1103249
Project:	Leica 137015	**Date Collected:**	6/ 8/11 1430
Sample Matrix:	Water	**Date Received:**	6/ 9/11
		Date Analyzed:	6/17/11 16:51
Sample Name:	INT-5	**Units:**	µg/L
Lab Code:	R1103249-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	250452
Data File Name:	J:\ACQUDATA\MSVOA12\DATA\061711\U8467.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
179601-23-1	m,p-Xylenes	5.0	U	5.0	0.81	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85-122	6/17/11 16:51	
Toluene-d8	103	87-121	6/17/11 16:51	
Dibromofluoromethane	104	89-119	6/17/11 16:51	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Energy Solutions	**Service Request:**	R1103249
Project:	Leica 137015	**Date Collected:**	6/ 8/11 1730
Sample Matrix:	Water	**Date Received:**	6/ 9/11
		Date Analyzed:	6/17/11 17:21
Sample Name:	EXT-1	**Units:**	µg/L
Lab Code:	R1103249-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	250452
Data File Name:	J:\ACQUDATA\MSVOA12\DATA\061711\U8468.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
67-64-1	Acetone	**4.1**	J	20	1.6	
71-43-2	Benzene	5.0	U	5.0	0.31	
75-27-4	Bromodichloromethane	5.0	U	5.0	0.41	
75-25-2	Bromoform	5.0	U	5.0	0.30	
74-83-9	Bromomethane	5.0	U	5.0	0.40	
78-93-3	2-Butanone (MEK)	10	U	10	1.0	
75-15-0	Carbon Disulfide	10	U	10	0.35	
56-23-5	Carbon Tetrachloride	5.0	U	5.0	0.36	
108-90-7	Chlorobenzene	5.0	U	5.0	0.30	
75-00-3	Chloroethane	5.0	U	5.0	0.30	
67-66-3	Chloroform	5.0	U	5.0	0.30	
74-87-3	Chloromethane	5.0	U	5.0	0.46	
124-48-1	Dibromochloromethane	5.0	U	5.0	0.30	
75-34-3	1,1-Dichloroethane	5.0	U	5.0	0.30	
107-06-2	1,2-Dichloroethane	5.0	U	5.0	0.30	
75-35-4	1,1-Dichloroethene	5.0	U	5.0	0.37	
156-59-2	cis-1,2-Dichloroethene	**0.43**	J	5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.30	
78-87-5	1,2-Dichloropropane	5.0	U	5.0	0.66	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	0.30	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	0.30	
100-41-4	Ethylbenzene	5.0	U	5.0	0.42	
591-78-6	2-Hexanone	10	U	10	0.40	
75-09-2	Methylene Chloride	5.0	U	5.0	0.30	
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	0.34	
100-42-5	Styrene	5.0	U	5.0	0.35	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.30	
127-18-4	Tetrachloroethene	5.0	U	5.0	0.42	
108-88-3	Toluene	**0.56**	J	5.0	0.30	
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	0.30	
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	0.30	
79-01-6	Trichloroethene	**0.35**	J	5.0	0.30	
75-01-4	Vinyl Chloride	5.0	U	5.0	0.30	
95-47-6	o-Xylene	5.0	U	5.0	0.40	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Energy Solutions	**Service Request:**	R1103249
Project:	Leica 137015	**Date Collected:**	6/ 8/11 1730
Sample Matrix:	Water	**Date Received:**	6/ 9/11
		Date Analyzed:	6/17/11 17:21
Sample Name:	EXT-1	**Units:**	µg/L
Lab Code:	R1103249-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	250452
Data File Name:	J:\ACQUDATA\MSVOA12\DATA\061711\U8468.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
179601-23-1	m,p-Xylenes	5.0	U	5.0	0.81	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85-122	6/17/11 17:21	
Toluene-d8	105	87-121	6/17/11 17:21	
Dibromofluoromethane	104	89-119	6/17/11 17:21	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Energy Solutions	**Service Request:**	R1103249
Project:	Leica 137015	**Date Collected:**	6/ 8/11
Sample Matrix:	Water	**Date Received:**	6/ 9/11
		Date Analyzed:	6/16/11 17:47
Sample Name:	TRIP BLANK	**Units:**	µg/L
Lab Code:	R1103249-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	250237
Data File Name:	J:\ACQUDATA\msvoa10\data\061611\D3089.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
67-64-1	Acetone	**3.2**	J	20	1.6	
71-43-2	Benzene	5.0	U	5.0	0.31	
75-27-4	Bromodichloromethane	5.0	U	5.0	0.41	
75-25-2	Bromoform	5.0	U	5.0	0.30	
74-83-9	Bromomethane	5.0	U	5.0	0.40	
78-93-3	2-Butanone (MEK)	10	U	10	1.0	
75-15-0	Carbon Disulfide	10	U	10	0.35	
56-23-5	Carbon Tetrachloride	5.0	U	5.0	0.36	
108-90-7	Chlorobenzene	5.0	U	5.0	0.30	
75-00-3	Chloroethane	5.0	U	5.0	0.30	
67-66-3	Chloroform	5.0	U	5.0	0.30	
74-87-3	Chloromethane	5.0	U	5.0	0.46	
124-48-1	Dibromochloromethane	5.0	U	5.0	0.30	
75-34-3	1,1-Dichloroethane	5.0	U	5.0	0.30	
107-06-2	1,2-Dichloroethane	5.0	U	5.0	0.30	
75-35-4	1,1-Dichloroethene	5.0	U	5.0	0.37	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.30	
78-87-5	1,2-Dichloropropane	5.0	U	5.0	0.66	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	0.30	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	0.30	
100-41-4	Ethylbenzene	5.0	U	5.0	0.42	
591-78-6	2-Hexanone	10	U	10	0.40	
75-09-2	Methylene Chloride	5.0	U	5.0	0.30	
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	0.34	
100-42-5	Styrene	5.0	U	5.0	0.35	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.30	
127-18-4	Tetrachloroethene	5.0	U	5.0	0.42	
108-88-3	Toluene	5.0	U	5.0	0.30	
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	0.30	
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	0.30	
79-01-6	Trichloroethene	5.0	U	5.0	0.30	
75-01-4	Vinyl Chloride	5.0	U	5.0	0.30	
95-47-6	o-Xylene	5.0	U	5.0	0.40	

Client:	Energy Solutions	**Service Request:**	R1103249
Project:	Leica 137015	**Date Collected:**	6/ 8/11
Sample Matrix:	Water	**Date Received:**	6/ 9/11
		Date Analyzed:	6/16/11 17:47
Sample Name:	TRIP BLANK	**Units:**	µg/L
Lab Code:	R1103249-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	250237
Data File Name:	J:\ACQUDATA\msvoa10\data\061611\D3089.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
179601-23-1	m,p-Xylenes	5.0	U	5.0	0.81	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	116	85-122	6/16/11 17:47	
Toluene-d8	110	87-121	6/16/11 17:47	
Dibromofluoromethane	119	89-119	6/16/11 17:47	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Energy Solutions	**Service Request:**	R1103249
Project:	Leica 137015	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	6/16/11 11:17
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1105900-01	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	250237
Data File Name:	J:\ACQUDATA\msvoa10\data\061611\D3077.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
67-64-1	Acetone	20	U	20	1.6	
71-43-2	Benzene	5.0	U	5.0	0.31	
75-27-4	Bromodichloromethane	5.0	U	5.0	0.41	
75-25-2	Bromoform	5.0	U	5.0	0.30	
74-83-9	Bromomethane	5.0	U	5.0	0.40	
78-93-3	2-Butanone (MEK)	10	U	10	1.0	
75-15-0	Carbon Disulfide	10	U	10	0.35	
56-23-5	Carbon Tetrachloride	5.0	U	5.0	0.36	
108-90-7	Chlorobenzene	5.0	U	5.0	0.30	
75-00-3	Chloroethane	5.0	U	5.0	0.30	
67-66-3	Chloroform	5.0	U	5.0	0.30	
74-87-3	Chloromethane	5.0	U	5.0	0.46	
124-48-1	Dibromochloromethane	5.0	U	5.0	0.30	
75-34-3	1,1-Dichloroethane	5.0	U	5.0	0.30	
107-06-2	1,2-Dichloroethane	5.0	U	5.0	0.30	
75-35-4	1,1-Dichloroethene	5.0	U	5.0	0.37	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.30	
78-87-5	1,2-Dichloropropane	5.0	U	5.0	0.66	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	0.30	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	0.30	
100-41-4	Ethylbenzene	5.0	U	5.0	0.42	
591-78-6	2-Hexanone	10	U	10	0.40	
75-09-2	Methylene Chloride	5.0	U	5.0	0.30	
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	0.34	
100-42-5	Styrene	5.0	U	5.0	0.35	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.30	
127-18-4	Tetrachloroethene	5.0	U	5.0	0.42	
108-88-3	Toluene	5.0	U	5.0	0.30	
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	0.30	
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	0.30	
79-01-6	Trichloroethene	5.0	U	5.0	0.30	
75-01-4	Vinyl Chloride	5.0	U	5.0	0.30	
95-47-6	o-Xylene	5.0	U	5.0	0.40	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Energy Solutions	**Service Request:**	R1103249
Project:	Leica 137015	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	6/16/11 11:17
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1105900-01	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	250237
Data File Name:	J:\ACQUDATA\msvoa10\data\061611\D3077.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
179601-23-1	m,p-Xylenes	5.0	U	5.0	0.81	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	117	85-122	6/16/11 11:17	
Toluene-d8	111	87-121	6/16/11 11:17	
Dibromofluoromethane	116	89-119	6/16/11 11:17	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Energy Solutions	**Service Request:**	R1103249
Project:	Leica 137015	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	6/17/11 14:50
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1105938-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	250452
Data File Name:	J:\ACQUDATA\MSVOA12\DATA\061711\U8463.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
67-64-1	Acetone	20	U	20	1.6	
71-43-2	Benzene	5.0	U	5.0	0.31	
75-27-4	Bromodichloromethane	5.0	U	5.0	0.41	
75-25-2	Bromoform	5.0	U	5.0	0.30	
74-83-9	Bromomethane	5.0	U	5.0	0.40	
78-93-3	2-Butanone (MEK)	10	U	10	1.0	
75-15-0	Carbon Disulfide	10	U	10	0.35	
56-23-5	Carbon Tetrachloride	5.0	U	5.0	0.36	
108-90-7	Chlorobenzene	5.0	U	5.0	0.30	
75-00-3	Chloroethane	5.0	U	5.0	0.30	
67-66-3	Chloroform	5.0	U	5.0	0.30	
74-87-3	Chloromethane	5.0	U	5.0	0.46	
124-48-1	Dibromochloromethane	5.0	U	5.0	0.30	
75-34-3	1,1-Dichloroethane	5.0	U	5.0	0.30	
107-06-2	1,2-Dichloroethane	5.0	U	5.0	0.30	
75-35-4	1,1-Dichloroethene	5.0	U	5.0	0.37	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.30	
78-87-5	1,2-Dichloropropane	5.0	U	5.0	0.66	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	0.30	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	0.30	
100-41-4	Ethylbenzene	5.0	U	5.0	0.42	
591-78-6	2-Hexanone	10	U	10	0.40	
75-09-2	Methylene Chloride	5.0	U	5.0	0.30	
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	0.34	
100-42-5	Styrene	5.0	U	5.0	0.35	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.30	
127-18-4	Tetrachloroethene	5.0	U	5.0	0.42	
108-88-3	Toluene	5.0	U	5.0	0.30	
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	0.30	
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	0.30	
79-01-6	Trichloroethene	5.0	U	5.0	0.30	
75-01-4	Vinyl Chloride	5.0	U	5.0	0.30	
95-47-6	o-Xylene	5.0	U	5.0	0.40	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Energy Solutions	**Service Request:**	R1103249
Project:	Leica 137015	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	6/17/11 14:50
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1105938-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	250452
Data File Name:	J:\ACQUDATA\MSVOA12\DATA\061711\U8463.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
179601-23-1	m,p-Xylenes	5.0	U	5.0	0.81	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85-122	6/17/11 14:50	
Toluene-d8	106	87-121	6/17/11 14:50	
Dibromofluoromethane	102	89-119	6/17/11 14:50	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Energy Solutions	**Service Request:**	R1103249
Project:	Leica 137015	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	6/20/11 15:51
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1106004-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	250688
Data File Name:	J:\ACQUDATA\msvoa12\Data\062011\U8491.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
67-64-1	Acetone	20	U	20	1.6	
71-43-2	Benzene	5.0	U	5.0	0.31	
75-27-4	Bromodichloromethane	5.0	U	5.0	0.41	
75-25-2	Bromoform	5.0	U	5.0	0.30	
74-83-9	Bromomethane	5.0	U	5.0	0.40	
78-93-3	2-Butanone (MEK)	10	U	10	1.0	
75-15-0	Carbon Disulfide	10	U	10	0.35	
56-23-5	Carbon Tetrachloride	5.0	U	5.0	0.36	
108-90-7	Chlorobenzene	5.0	U	5.0	0.30	
75-00-3	Chloroethane	5.0	U	5.0	0.30	
67-66-3	Chloroform	5.0	U	5.0	0.30	
74-87-3	Chloromethane	5.0	U	5.0	0.46	
124-48-1	Dibromochloromethane	5.0	U	5.0	0.30	
75-34-3	1,1-Dichloroethane	5.0	U	5.0	0.30	
107-06-2	1,2-Dichloroethane	5.0	U	5.0	0.30	
75-35-4	1,1-Dichloroethene	5.0	U	5.0	0.37	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	0.30	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.30	
78-87-5	1,2-Dichloropropane	5.0	U	5.0	0.66	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	0.30	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	0.30	
100-41-4	Ethylbenzene	5.0	U	5.0	0.42	
591-78-6	2-Hexanone	10	U	10	0.40	
75-09-2	Methylene Chloride	5.0	U	5.0	0.30	
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	0.34	
100-42-5	Styrene	5.0	U	5.0	0.35	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.30	
127-18-4	Tetrachloroethene	5.0	U	5.0	0.42	
108-88-3	Toluene	5.0	U	5.0	0.30	
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	0.30	
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	0.30	
79-01-6	Trichloroethene	5.0	U	5.0	0.30	
75-01-4	Vinyl Chloride	5.0	U	5.0	0.30	
95-47-6	o-Xylene	5.0	U	5.0	0.40	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Energy Solutions	**Service Request:**	R1103249
Project:	Leica 137015	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	6/20/11 15:51
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1106004-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	250688
Data File Name:	J:\ACQUDATA\msvoa12\Data\062011\U8491.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
179601-23-1	m,p-Xylenes	5.0	U	5.0	0.81	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85-122	6/20/11 15:51	
Toluene-d8	106	87-121	6/20/11 15:51	
Dibromofluoromethane	105	89-119	6/20/11 15:51	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Energy Solutions
Project: Leica 137015
Sample Matrix: Water

Service Request: R1103249
Date Analyzed: 6/16/11

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 250237

Analyte Name	Lab Control Sample RQ1105900-02 Result	Spike Amount	% Rec	% Rec Limits
Acetone	20.4	20.0	102	59 - 140
Benzene	17.1	20.0	86	78 - 121
Bromodichloromethane	20.0	20.0	100	80 - 125
Bromoform	19.0	20.0	95	73 - 132
Bromomethane	18.1	20.0	90	57 - 144
2-Butanone (MEK)	17.2	20.0	86	60 - 133
Carbon Disulfide	18.3	20.0	92	59 - 138
Carbon Tetrachloride	21.0	20.0	105	69 - 135
Chlorobenzene	17.6	20.0	88	80 - 121
Chloroethane	18.9	20.0	94	71 - 130
Chloroform	18.9	20.0	94	78 - 125
Chloromethane	20.1	20.0	101	62 - 133
Dibromochloromethane	19.2	20.0	96	78 - 133
1,1-Dichloroethane	18.2	20.0	91	76 - 122
1,2-Dichloroethane	21.4	20.0	107	78 - 126
1,1-Dichloroethene	16.4	20.0	82	72 - 129
cis-1,2-Dichloroethene	18.1	20.0	90	78 - 122
trans-1,2-Dichloroethene	17.0	20.0	85	75 - 121
1,2-Dichloropropane	17.6	20.0	88	80 - 123
cis-1,3-Dichloropropene	18.0	20.0	90	77 - 125
trans-1,3-Dichloropropene	18.6	20.0	93	69 - 127
Ethylbenzene	18.0	20.0	90	78 - 123
2-Hexanone	17.9	20.0	89	61 - 131
Methylene Chloride	16.5	20.0	82	75 - 125
4-Methyl-2-pentanone (MIBK)	19.5	20.0	97	61 - 132
Styrene	18.2	20.0	91	80 - 132
1,1,2,2-Tetrachloroethane	17.0	20.0	85	72 - 131
Tetrachloroethene	17.3	20.0	86	72 - 131
Toluene	17.8	20.0	89	78 - 122
1,1,1-Trichloroethane	19.1	20.0	96	72 - 128
1,1,2-Trichloroethane	17.3	20.0	86	80 - 122
Trichloroethene	17.2	20.0	86	74 - 127

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Energy Solutions
Project: Leica 137015
Sample Matrix: Water

Service Request: R1103249
Date Analyzed: 6/16/11

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 250237

	Lab Control Sample RQ1105900-02			
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**
Vinyl Chloride	19.1	20.0	95	71 - 136
o-Xylene	17.1	20.0	86	79 - 126
m,p-Xylenes	35.4	40.0	89	79 - 126

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Energy Solutions
Project: Leica 137015
Sample Matrix: Water

Service Request: R1103249
Date Analyzed: 6/17/11

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 250452

Analyte Name	Lab Control Sample RQ1105938-03 Result	Spike Amount	% Rec	% Rec Limits
Acetone	19.2	20.0	96	59 - 140
Benzene	23.7	20.0	119	78 - 121
Bromodichloromethane	22.1	20.0	111	80 - 125
Bromoform	24.3	20.0	122	73 - 132
Bromomethane	20.2	20.0	101	57 - 144
2-Butanone (MEK)	20.2	20.0	101	60 - 133
Carbon Disulfide	21.5	20.0	107	59 - 138
Carbon Tetrachloride	23.6	20.0	118	69 - 135
Chlorobenzene	23.7	20.0	119	80 - 121
Chloroethane	24.2	20.0	121	71 - 130
Chloroform	20.3	20.0	101	78 - 125
Chloromethane	25.9	20.0	129	62 - 133
Dibromochloromethane	22.5	20.0	113	78 - 133
1,1-Dichloroethane	23.4	20.0	117	76 - 122
1,2-Dichloroethane	20.6	20.0	103	78 - 126
1,1-Dichloroethene	22.0	20.0	110	72 - 129
cis-1,2-Dichloroethene	22.2	20.0	111	78 - 122
trans-1,2-Dichloroethene	23.0	20.0	115	75 - 121
1,2-Dichloropropane	22.7	20.0	113	80 - 123
cis-1,3-Dichloropropene	22.6	20.0	113	77 - 125
trans-1,3-Dichloropropene	21.6	20.0	108	69 - 127
Ethylbenzene	23.7	20.0	118	78 - 123
2-Hexanone	21.5	20.0	108	61 - 131
Methylene Chloride	21.9	20.0	110	75 - 125
4-Methyl-2-pentanone (MIBK)	21.1	20.0	105	61 - 132
Styrene	24.4	20.0	122	80 - 132
1,1,2,2-Tetrachloroethane	22.0	20.0	110	72 - 131
Tetrachloroethene	25.4	20.0	127	72 - 131
Toluene	24.3	20.0	121	78 - 122
1,1,1-Trichloroethane	20.9	20.0	104	72 - 128
1,1,2-Trichloroethane	22.8	20.0	114	80 - 122
Trichloroethene	24.4	20.0	122	74 - 127

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Energy Solutions
Project: Leica 137015
Sample Matrix: Water

Service Request: R1103249
Date Analyzed: 6/17/11

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 250452

Analyte Name	Lab Control Sample RQ1105938-03 Result	Spike Amount	% Rec	% Rec Limits
Vinyl Chloride	26.2	20.0	131	71 - 136
o-Xylene	24.0	20.0	120	79 - 126
m,p-Xylenes	49.2	40.0	123	79 - 126

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Energy Solutions
Project: Leica 137015
Sample Matrix: Water

Service Request: R1103249
Date Analyzed: 6/20/11

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 250688

Analyte Name	Lab Control Sample RQ1106004-03 Result	Spike Amount	% Rec	% Rec Limits
Acetone	19.6	20.0	98	59 - 140
Benzene	21.7	20.0	109	78 - 121
Bromodichloromethane	20.6	20.0	103	80 - 125
Bromoform	21.8	20.0	109	73 - 132
Bromomethane	19.4	20.0	97	57 - 144
2-Butanone (MEK)	19.7	20.0	98	60 - 133
Carbon Disulfide	21.9	20.0	109	59 - 138
Carbon Tetrachloride	21.1	20.0	106	69 - 135
Chlorobenzene	21.7	20.0	109	80 - 121
Chloroethane	22.6	20.0	113	71 - 130
Chloroform	19.5	20.0	97	78 - 125
Chloromethane	24.0	20.0	120	62 - 133
Dibromochloromethane	21.5	20.0	107	78 - 133
1,1-Dichloroethane	21.2	20.0	106	76 - 122
1,2-Dichloroethane	19.3	20.0	97	78 - 126
1,1-Dichloroethene	20.9	20.0	105	72 - 129
cis-1,2-Dichloroethene	20.2	20.0	101	78 - 122
trans-1,2-Dichloroethene	20.7	20.0	104	75 - 121
1,2-Dichloropropane	21.2	20.0	106	80 - 123
cis-1,3-Dichloropropene	20.4	20.0	102	77 - 125
trans-1,3-Dichloropropene	19.4	20.0	97	69 - 127
Ethylbenzene	21.6	20.0	108	78 - 123
2-Hexanone	18.6	20.0	93	61 - 131
Methylene Chloride	20.1	20.0	100	75 - 125
4-Methyl-2-pentanone (MIBK)	20.4	20.0	102	61 - 132
Styrene	22.1	20.0	110	80 - 132
1,1,2,2-Tetrachloroethane	18.9	20.0	95	72 - 131
Tetrachloroethene	23.1	20.0	116	72 - 131
Toluene	22.0	20.0	110	78 - 122
1,1,1-Trichloroethane	19.5	20.0	98	72 - 128
1,1,2-Trichloroethane	20.4	20.0	102	80 - 122
Trichloroethene	23.0	20.0	115	74 - 127

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Energy Solutions
Project: Leica 137015
Sample Matrix: Water

Service Request: R1103249
Date Analyzed: 6/20/11

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 250688

Lab Control Sample
RQ1106004-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Vinyl Chloride	23.7	20.0	118	71 - 136
o-Xylene	21.6	20.0	108	79 - 126
m,p-Xylenes	45.2	40.0	113	79 - 126

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Columbia Analytical Services™ CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

1 Mustard Street, Suite 250, Rochester, NY 14609 | 585.288.5380 | 800.695.7222 | 585.288.8475 (fax) PAGE 1 OF 1

Project Name: LEICA	Project Number: 137015
Project Manager: Bob McPeak	Report CC:
Company/Address: 100 Mill Plain Rd, Danbury, CT 06811	
Phone #: 801 303 1092	E-mail: rmcpeak@energysolutions.com
Sampler's Signature:	Sampler's Printed Name: DAN SLYWKA

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE: HCl

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's ☐ 8260 ☐ 624 ☐ CLP	GC/MS SVOA's ☐ 8270 ☐ 625	GC VOA's ☐ 8021 ☐ 601/602	PESTICIDES ☐ 8081 ☐ 608	PCB's ☐ 8082 ☐ 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	REMARKS/ ALTERNATE DESCRIPTION
INT-1	-001	6/8/11	1100	Aq	3	X							
INT-2	-002		1145			X							
INT-3	-003		1220			X							
INT-4	-004		1335			X							
INT-5	-005		1430			X							
EXT-1	-006		1730			X							
Trip Blank	-007					X							

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

STATE WHERE SAMPLES WERE COLLECTED: NY

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
____ 1 day ____ 2 day ____ 3 day
____ 4 day ____ 5 day
X Standard

REQUESTED REPORT DATE: _____

REPORT REQUIREMENTS
____ I. Results Only
X II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data

Edata X Yes ____ No

INVOICE INFORMATION
PO #:
BILL TO:

R1103249
Energy Solutions, Inc.
Leica 137015

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY
Signature:	Signature:	Signature:	Signature:	Signature:
Printed Name: DAN SLYWKA	Printed Name:	Printed Name:	Printed Name: Gregory LaFave	Printed Name:
Firm: Energy Solutions	Firm: QAS	Firm: QAS	Firm: QAS	Firm:
Date/Time: 6/9/11 1210	Date/Time: 6-9-11 1240	Date/Time: 6-9-11 1545	Date/Time: 6/9/11 1545	Date/Time:

Distribution: White - Lab Copy; Yellow - Return To Originator

SCOC Rev. 10/2010

Cooler Receipt And Preservation Check Form

Project/Client Leica Folder Number R1103249

Cooler received on 6/9/11 by: CK COURIER: CAS UPS FEDEX VELOCITY CLIENT

1.	Were custody seals on outside of cooler?	YES	NO			
2.	Were custody papers properly filled out (ink, signed, etc.)?	YES	NO			
3.	Did all bottles arrive in good condition (unbroken)?	YES	NO	@6/9/11	TRIP BLANK	(1)
4.	Did VOA vials, Alkalinity, or Sulfide have significant* air bubbles?	YES	NO	N/A	Ext-1	(1)
5.	Were Ice or Ice packs present?	YES	NO		MW-6	(1)
6.	Where did the bottles originate?	CAS/ROC	CLIENT		MW-28	(1)
7.	Temperature of cooler(s) upon receipt:	5°	3°			
	Is the temperature within 0° - 6° C?:	Yes	Yes	Yes	Yes	Yes
	If No, Explain Below	No	No	No	No	No

Date/Time Temperatures Taken: 6/9/11 @ 1545

Thermometer ID: IR GUN#3 / IR GUN#4 Reading From: Temp Blank / Sample Bottle

If out of Temperature, note packing/ice condition, Client Approval to Run Samples: _____

PC Secondary Review: LB 6/10/11

Cooler Breakdown: Date: 6/10/11 Time: 1129 by: CK

1.	Were all bottle labels complete (*i.e.* analysis, preservation, etc.)?	YES	NO
2.	Did all bottle labels and tags agree with custody papers?	YES	NO
3.	Were correct containers used for the tests indicated?	YES	NO
4.	Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated	N/A	

Explain any discrepancies: _____

pH	Reagent	YES	NO	Lot Received	Exp
≥12	NaOH				
≤2	HNO_3				
≤2	H_2SO_4				
Residual Chlorine (-)	For TCN and Phenol			If present, contact PM to add ascorbic acid	
	$Na_2S_2O_3$	-	-		
	Zn Aceta	-	-		
	HCl	*	*	4110060	5/12

Sample ID	Vol. Added	Lot Added	Final pH

*Not to be tested before analysis – pH tested and recorded by VOAs or GenChem on a separate worksheet

Yes = All samples OK

No = Samples were preserved at lab as listed

PM OK to Adjust: _____

Bottle lot numbers: 1-045-004

Other Comments:

C Secondary Review: _____

00036

*significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter