FINAL DATA GAPS REPORT CONTINUED

SGS ANALYTICAL PERSPECTIVES

17 July 2013

Mike Staton
SLR Consulting
22118 20th Ave SE
Suite G202
Bothell, WA 98021

Ph.: 425-402-8800
Email: mstaton@slrconsulting.com

Subject: Certificate of Results - Amended

Dear Mike;

Attached to this narrative are the analytical results you requested on the samples submitted for the determination of polychlorinated dibenzo-*p*-dioxins and dibenzofurans. The insert below summarizes the relevant information pertaining to your project. In particular, QC annotations bring to your attention specific analytical observations and assessments made during the sample handling and data interpretation phases. Results reported relate only to the items tested.

Project Information Summary	When applicable, see QC Annotations for details
Client Project No.	Crowley RIFS 101.00205.00030
AP Project #	**A5662**
Analytical Protocol	Method 8290
No. Samples Submitted	3
No. Samples Analyzed	2 (1 sample on hold)
No. Laboratory Method Blanks	1
No. OPRs / Batch CS3	1
No. Outstanding Samples	0
Date Received	25-Jun-2013
Condition Received	good
Temperature upon Receipt (C)	3
Extraction within Holding Time	yes
Analysis within Holding Time	yes
Data meet QA/QC Requirements	yes
Exceptions	none
Analytical Difficulties	none

ANALYTICAL PERSPECTIVES IS NOW PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.

SGS

QC Annotations:

1. Please see Appendix A & B attached for data qualifier/attribute and lab identifier descriptions which may be contained in the project.
2. This project has been amended so that the results are reported in pg/kg rather than pg/g.

Analytical Perspectives Certification IDs:

SOUTH CAROLINA	99054
ARKANSAS	88-0628
NEW JERSEY-NELAP SECONDARY	NC005
FLORIDA-NELAP PRIMARY	E87608
LOUISIANA	4024
NORTH CAROLINA	37783
WASHINGTON	C2027
NEW YORK	11988
VIRGINIA	460180
MINNESOTA	037-999-448
OREGON	pending
TEXAS	T104704484-10-1
PENNSYLVANIA-NELAP SECONDARY	68-01849

SGS Analytical Perspectives remains committed to serving you in the most effective manner. Should you have any questions or need additional information and technical support, please do not hesitate to contact us.

The management and staff of SGS Analytical Perspectives welcomes customer feedback, both positive and negative, as we continually improve our services. Please visit our web site at www.ultratrace.com and click on the 'Leave Your Feedback Here!' link on the Home Page. Thank you for choosing SGS Analytical Perspectives.

Sincerely,

Heather Distel

Heather Distel, Ph.D.
Senior Project Scientist/Team Lead
AK/ak

APPENDIX A: DATA QUALIFIERS / DATA ATTRIBUTES	
>	Indicates high recoveries. Shown with the numeric value at the top of the range.[1]
B	The analyte was found in the method blank, at a concentration that was at least 10% of the concentration in the sample.
C	Two or more congeners co-elute. In EDDs C denotes the lowest IUPAC congener in a co-elution group and additional co-eluters for the group are shown with the number of the lowest IUPAC co-eluter.
E	The reported concentration exceeds the calibration range (upper point of the calibration curve).
EMPC	Represents an Estimated Maximum Possible Concentration. EMPC's arise in cases where the signal/noise ratio is not sufficient for peak identification (the determined ion-abundance ratio is outside the allowed theoretical range), or where there is a co-eluting interference.
ETH	Indicates the presence of a diphenyl ether that appears to interfere with the quantitation of a furan. The reported concentration is the maximum.
H/h	If the standard recovery is below the method or SOP specified value "H" is assigned. If the obtained value is less than half the specified value "h" is assigned.[1]
J	Indicates that an analyte has a concentration below the reporting limit (lowest point of the calibration curve).
ND	Indicates a non-detect.
NR	Indicates a value that is not reportable.
PR	Due to interference, the associated congener is poorly resolved.
QI	Indicates the presence of a quantitative interference.
SI	Denotes "Single Ion Mode" and is utilized for PCBs where the secondary ion trace has a significantly elevated noise level due to background PFK. Responses for such peaks are calculated using an EMPC approach based solely on the primary ion area(s) and may be considered estimates.[1]
U	The analyte was not detected. The estimated detection limit (EDL) may be reported for this analyte.
V	The labeled standard recovery was found to be outside of the method control limits.
X	Indicates results reported from reinjection, refractionation, or repeat analyses.
APPENDIX B: LAB ID IDENTIFIERS	
AR	Indicates use of the archived portion of the sample extract.
CU	Indicates a sample that required additional clean-up prior to MS injection/processing.
D	Indicates a dilution of the sample extract. The number that follows the "D" indicates the dilution factor.
DE	Indicates a dilution performed with the addition of ES (extraction standard) solution.
DUP	Designation for a duplicate sample.
MS	Designation for a matrix spike.
MSD	Designation for a matrix spike duplicate.
RJ	Indicates a reinjection of the sample extract.
S	Indicates a sample split. The number that follows the "S" indicates the split factor.

[1]Denotes data qualifiers/attributes whose use will be phased out over time

Sample ID: Method Blank A5662

Method 8290A

Client Data		Sample Data		Laboratory Data			
Name:	SLR International Corporation	Matrix:	Solids	Lab Project ID:	A5662	Date Received:	n/a
Project ID:	Crowley R1FS 101.00205.00030	Weight/Volume:	0.0100 Kg	Lab Sample ID	MB1_11082_DF_SDS	Date Extracted:	26-Jun-2013
Date Collected:	n/a	% Solids:	100.0 %	QC Batch No:	11082	Date Analyzed:	11-Jul-2013
		Split:	-	Dilution:	-	Time Analyzed:	02:08:38

Analyte	Conc. (pg/Kg)	DL (pg/Kg)	EMPC (pg/Kg)	Qualifiers	Standard	ES Recoveries	Qualifiers
2378-TCDD	EMPC		89	J	ES 2378-TCDD	74.5	
12378-PeCDD	ND	63.8			ES 12378-PeCDD	75	
123478-HxCDD	ND	40.4			ES 123478-HxCDD	77.9	
123678-HxCDD	ND	43.3			ES 123678-HxCDD	77.8	
123789-HxCDD	67.2			J	ES 123789-HxCDD	73.7	
1234678-HpCDD	141			J	ES 1234678-HpCDD	68.4	
OCDD	738			J	ES OCDD	58.4	
2378-TCDF	ND	28.2			ES 2378-TCDF	74.7	
12378-PeCDF	ND	30.5			ES 12378-PeCDF	71.6	
23478-PeCDF	ND	29.1			ES 23478-PeCDF	76.6	
123478-HxCDF	43.4			J	ES 123478-HxCDF	77.4	
123678-HxCDF	ND	32.1			ES 123678-HxCDF	73.7	
234678-HxCDF	ND	35.4			ES 234678-HxCDF	69.1	
123789-HxCDF	ND	48.7			ES 123789-HxCDF	72	
1234678-HpCDF	157			J	ES 1234678-HpCDF	67.3	
1234789-HpCDF	ND	67.8			ES 1234789-HpCDF	69	
OCDF	EMPC		323	J	ES OCDF	62.7	
Totals					**Standard**	**CS/AS Recoveries**	
					CS 37Cl-2378-TCDD	74.4	
Total TCDD	ND		172		CS 12347-PeCDD	74	
Total PeCDD	ND	63.8	ND		CS 12346-PeCDF	70.9	
Total HxCDD	67.2		67.2		CS 123469-HxCDF	75	
Total HpCDD	267		267		CS 1234689-HpCDF	67.1	
					AS 1368-TCDD	78.3	
Total TCDF	ND		42.5		AS 1368-TCDF	75.6	
Total PeCDF	ND	29.8	ND				
Total HxCDF	43.4		43.4				
Total HpCDF	157		157				
Total PCDD/Fs	**1270**		**1810**				
WHO-2005 TEQs							
TEQ: ND=0	14.3		103				
TEQ: ND=DL/2	87.1	77.6	152				
TEQ: ND=DL	160	155	200				

SGS ANALYTICAL PERSPECTIVES
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Wilmington, NC 28405 , USA
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Sample ID: EB-14-1.0

Method 8290A

Client Data		Sample Data		Laboratory Data			
Name:	SLR International Corporation	Matrix:	Solids	Lab Project ID:	A5662	Date Received:	25-Jun-2013
Project ID:	Crowley R1FS 101.00205.00030	Weight/Volume:	0.0102 Kg	Lab Sample ID	A5662_11082_DF_001	Date Extracted:	26-Jun-2013
Date Collected:	17-Jun-2013	% Solids:	88.4 %	QC Batch No:	11082	Date Analyzed:	11-Jul-2013
		Split:	-	Dilution:	-	Time Analyzed:	03:01:55

Analyte	Conc. (pg/Kg)	DL (pg/Kg)	EMPC (pg/Kg)	Qualifiers
2378-TCDD	220			J B
12378-PeCDD	1730			J
123478-HxCDD	2560			
123678-HxCDD	8550			
123789-HxCDD	5530			
1234678-HpCDD	137000			
OCDD	841000			
2378-TCDF	2110			
12378-PeCDF	1530			J
23478-PeCDF	4100			
123478-HxCDF	4920			
123678-HxCDF	2180			J
234678-HxCDF	2630			
123789-HxCDF	584			J
1234678-HpCDF	18900			
1234789-HpCDF	1160			J
OCDF	22000			
Totals				
Total TCDD	4530		5480	
Total PeCDD	11700		12100	
Total HxCDD	57200		57200	
Total HpCDD	242000		242000	
Total TCDF	26400		26500	
Total PeCDF	48200		48200	
Total HxCDF	53800		54000	
Total HpCDF	46200		46200	
Total PCDD/Fs	**1350000**		**1350000**	
WHO-2005 TEQs				
TEQ: ND=0	7970		7970	
TEQ: ND=DL/2	7970	123	7970	
TEQ: ND=DL	7970	246	7970	

Standard	ES Recoveries	Qualifiers
ES 2378-TCDD	92.1	
ES 12378-PeCDD	89.1	
ES 123478-HxCDD	90.6	
ES 123678-HxCDD	92.5	
ES 123789-HxCDD	90.1	
ES 1234678-HpCDD	91.8	
ES OCDD	83.3	
ES 2378-TCDF	94.2	
ES 12378-PeCDF	87.3	
ES 23478-PeCDF	88.1	
ES 123478-HxCDF	93.7	
ES 123678-HxCDF	90.8	
ES 234678-HxCDF	89.4	
ES 123789-HxCDF	90	
ES 1234678-HpCDF	88.7	
ES 1234789-HpCDF	90.6	
ES OCDF	83.1	

Standard	CS/AS Recoveries
CS 37Cl-2378-TCDD	88.1
CS 12347-PeCDD	85.1
CS 12346-PeCDF	85.2
CS 123469-HxCDF	92.5
CS 1234689-HpCDF	87.8
AS 1368-TCDD	97
AS 1368-TCDF	99.5

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Sample ID: EB-14-5.0

Method 8290A

Client Data		Sample Data		Laboratory Data			
Name:	SLR International Corporation	Matrix:	Solids	Lab Project ID:	A5662	Date Received:	25-Jun-2013
Project ID:	Crowley R1FS 101.00205.00030	Weight/Volume:	0.0100 Kg	Lab Sample ID	A5662_11082_DF_002	Date Extracted:	26-Jun-2013
Date Collected:	17-Jun-2013	% Solids:	84.9 %	QC Batch No:	11082	Date Analyzed:	11-Jul-2013
		Split:	-	Dilution:	-	Time Analyzed:	03:55:19

Analyte	Conc. (pg/Kg)	DL (pg/Kg)	EMPC (pg/Kg)	Qualifiers	Standard	ES Recoveries	Qualifiers
2378-TCDD	69.4			J B	ES 2378-TCDD	90.3	
12378-PeCDD	114			J	ES 12378-PeCDD	82.7	
123478-HxCDD	108			J	ES 123478-HxCDD	85.8	
123678-HxCDD	200			J	ES 123678-HxCDD	84.9	
123789-HxCDD	264			J B	ES 123789-HxCDD	83.9	
1234678-HpCDD	3560				ES 1234678-HpCDD	84.5	
OCDD	27200				ES OCDD	76.7	
2378-TCDF	281			J	ES 2378-TCDF	89.9	
12378-PeCDF	EMPC		116	J	ES 12378-PeCDF	81.5	
23478-PeCDF	163			J	ES 23478-PeCDF	81.5	
123478-HxCDF	EMPC		126	J B	ES 123478-HxCDF	85.2	
123678-HxCDF	85.7			J	ES 123678-HxCDF	83.4	
234678-HxCDF	124			J	ES 234678-HxCDF	82.1	
123789-HxCDF	ND	51.6			ES 123789-HxCDF	84	
1234678-HpCDF	509			J B	ES 1234678-HpCDF	82.1	
1234789-HpCDF	ND	68.4			ES 1234789-HpCDF	85.8	
OCDF	EMPC		723	J B	ES OCDF	79.2	
Totals					**Standard**	**CS/AS Recoveries**	
					CS 37Cl-2378-TCDD	98.4	
Total TCDD	1200		1940		CS 12347-PeCDD	89.7	
Total PeCDD	1250		1660		CS 12346-PeCDF	88.9	
Total HxCDD	3020		3110		CS 123469-HxCDF	94.6	
Total HpCDD	7040		7040		CS 1234689-HpCDF	93	
					AS 1368-TCDD	104	
Total TCDF	5280		5460		AS 1368-TCDF	98.5	
Total PeCDF	1620		2060				
Total HxCDF	743		1160				
Total HpCDF	1180		1180				
Total PCDD/Fs	**48500**		**51500**				
WHO-2005 TEQs							
TEQ: ND=0	387		404				
TEQ: ND=DL/2	393	90.5	406				
TEQ: ND=DL	398	181	409				

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A5562

ANALYTICAL PERSPECTIVES

CHAIN-OF-CUSTODY RECORD

PROJECT ID: Crowley RIFS 101.00205.00030 | P.O. NO.: 101.00205.00030 | SAMPLER: Amanda Meynier (PRINTED NAME) (SIGNATURE)

RELINQUISHED BY: (SIGNATURE & PRINTED NAME)	DATE:	TIME:	RECEIVED BY: (SIGNATURE & PRINTED NAME)	DATE:	TIME:
Amanda Meynier	6/24/13	1430	Barbara Hager / Barbara Hager	25-Jun-13	1005
RELINQUISHED BY: (SIGNATURE & PRINTED NAME)	DATE:	TIME:	RECEIVED BY: (SIGNATURE & PRINTED NAME)	DATE:	TIME:

PLEASE SEE NOTES ON THE BACK OF THE COC REGARDING THE SAMPLE ACCEPTANCE POLICY AND THE METHOD 8290 MS/MSD & DUP

REQUESTED TAT: 21 DAYS

SHIP TO: ANALYTICAL PERSPECTIVES, 2714 EXCHANGE DRIVE, WILMINGTON, NC 28405, PH.: 910-794-1613

METHOD OF SHIPMENT: FEDEX

SHIPMENT ID:

ATTN: YVES TONDEUR

QAPP REFERENCE: _____

SAMPLE ACCEPTANCE POLICY (ON BACK SIDE)

SAMPLE ID	DATE	TIME	SAMPLE DESCRIPTION	MS/MSD	DUP	METHOD 8290	METHOD 1613	METHOD 1668A	METHOD 1668 B	METHOD 1668 C	PAHs BY HRMS	QUANTIC	U-SVOA	WHO-2/WHO-2S	CONTAINER(S) QTY	CONTAINER(S) TYPE	MATRIX	
EB-14-1.0	6/17/13	1210	SOIL - 4oz jar			X									1	4oz	SOIL	
EB-14-5.0	6/17/13	1225	SOIL - 4oz jar			X									1	4oz	SOIL	
EB-14-10.0	6/17/13	1240	SOIL - 4oz jar															HOLD

SPECIAL INSTRUCTIONS/COMMENTS: (PLEASE CIRCLE OPTION BELOW)

("DF ONLY") "DF & PCB" "DF & PAH" "DF & PCB & PAH

"TRI – OCTA" "2,3,7,8-TCDD & F ONLY" "2,3,7,8-TCDD ONLY"

PLEASE SPECIFY TEFs: (PLEASE CHECK BOXES BELOW)

☐ "ITEFS" ☐ "WHO-98" ☒ "WHO-05" ☐ "MA-TEFS" ☐ "CT-TEFS"

SEND DOCUMENTATION & RESULTS TO:

NAME: Mike Staton
COMPANY: SLR Consulting Corp.
ADDRESS: 22118 20th Ave SE G202
CITY: Bothell
STATE: WA ZIP: 98021
PH.: 425-402-8800
E-MAIL: mstaton@slrconsulting.com

BILL TO: (☒ CHECK IF SAME)

NAME: _____
COMPANY: _____
ADDRESS: _____
CITY: _____
STATE: ___ ZIP: _____
PH.: _____

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Kurt Johnson, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

July 19, 2013

Mike Staton
SLR International Corp.
22118 20th Ave. SE., G-202
Bothell, WA 98021

Dear Mr. Staton:

Included are the results from the testing of material submitted on June 10, 2013 from the Crowley RIFS 101.00205.00019, F&BI 306147 project. There are 104 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michele Costales Poquiz

Michele Costales Poquiz
Chemist

Enclosures
SLR0719R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on June 10, 2013 by Friedman & Bruya, Inc. from the SLR International Corp. Crowley RIFS 101.00205.00019, F&BI 306147 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SLR International Corp.
306147-01	EB-28-1.0
306147-02	EB-28-2.5
306147-03	EB-28-5.0
306147-04	EB-28-7.5
306147-05	EB-28-10.0
306147-06	EB-28-12.5
306147-07	EB-28-15.0
306147-08	EB-28-20.0
306147-09	EB-45-1.0
306147-10	EB-45-2.5
306147-11	EB-45-5.0
306147-12	EB-45-7.50
306147-13	EB-45-10.0
306147-14	EB-45-12.5
306147-15	EB-40-1.0
306147-16	EB-40-2.5
306147-17	EB-40-5.0
306147-18	EB-40-7.5
306147-19	EB-40-10.0
306147-20	EB-40-12.5
306147-21	EB-47-1.0
306147-22	EB-47-2.5
306147-23	EB-47-5.0
306147-24	EB-47-7.5
306147-25	EB-47-10.0
306147-26	EB-47-12.5
306147-27	EB-47-15.0
306147-28	EB-47-20.0
306147-29	EB-81-2.5
306147-30	TB-061013

Total Petroluem Hydrocarbons as Diesel and Motor Oil by Method NWTPH-Dx with Silica Gel

All quality control requirements were acceptable.

Volatile Compounds by EPA Method 8260C

The sample EB-45-5.0 was analyzed outside of the EPA recommended holding time for the 8260C analysis. The values reported should be considered estimates.

The percent recovery for the matrix spike (MS), laboratory control sample (LCS), and laboratory control sample duplicate (LCSD) failed high for several compounds in the 8260C analysis. In addition, the relative percent difference (RPD) for the LCS/LCSD and the MS/MSD failed high for several compounds. The compounds were not identified in the samples, therefore the results are valid.

The trip blank sample was received with incorrect preservation for the 8260 analysis of vinyl chloride. The result should be considered an estimate.

Semivolatile Organic Compounds by EPA Method 8270D
The samples EB-28-5.0, EB-28-10.0, EB-45-5.0, EB-45-12.5, EB-40-1.0, EB-40-5.0, EB-47-1.0, and EB-47-5.0 were diluted due to matrix interferences. The reporting limits have been raised accordingly.

The internal standard associated with several analytes in the 8270D analysis of the MSD exceeded acceptance criteria. In addition, the percent recovery for the MS and the RPD for the LCS/LCSD and the MS/MSD exceeded acceptance criteria for several compounds. The results have been flagged accordingly.

Semivolatile Organic Compounds by EPA Method 8270D SIM
The samples EB-28-5.0, EB-28-10.0, EB-45-5.0, EB-45-10.0, EB-45-12.5, EB-40-1.0, EB-40-5.0, and EB-47-5.0 were diluted due to matrix interferences. The reporting limits have been raised accordingly.

The percent recovery for the MS and the RPD for the MS/MSD exceeded acceptance criteria for the 8270D SIM analysis of naphthalene. The results have been flagged accordingly.

Polychlorinated Biphenyls as Aroclor 1016/1260 by EPA Method 8082A
The samples EB-28-5.0, EB-45-5.0, EB-40-1.0, and EB-47-1.0 were diluted due to matrix interferences. The reporting limits have been raised accordingly.

Total Metals by EPA Method 200.8
Copper was identified at a low level in the method blank. The results have been flagged accordingly.

The internal standard associated with several analytes in the 200.8 analysis of the samples EB-28-5.0 and EB-47-5.0 exceeded acceptance criteria. The samples were diluted and reanalyzed. The results for the full strength and the dilution analyses are included.

The percent recovery for the MS exceeded acceptance criteria for the 200.8 analysis of antimony. The results have been flagged accordingly.

Total Mercury by EPA Method 1631E
All quality control requirements were acceptable.

Date of Report: 07/19/13
Date Received: 06/10/13
Project: Crowley RIFS 101.00205.00019, F&BI 306147
Date Extracted: 06/12/13
Date Analyzed: 06/17/13

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx
Sample Extracts Passed Through a Silica Gel Column Prior to Analysis
Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 53-144)
EB-28-1.0 306147-01	<12	<21	122
EB-28-5.0 306147-03	<12	83	115
EB-28-10.0 306147-05	<12	630	141
EB-45-1.0 306147-09	<12	<21	132
EB-45-5.0 306147-11	100 x	630	112
EB-45-10.0 306147-13	<12	<21	117
EB-40-1.0 306147-15 1/10	52 x	2,200	ip
EB-40-5.0 306147-17	38 x	73	131
EB-40-10.0 306147-19	<12	<21	123
EB-47-1.0 306147-21	<12	66	121

Date of Report: 07/19/13
Date Received: 06/10/13
Project: Crowley RIFS 101.00205.00019, F&BI 306147
Date Extracted: 06/12/13
Date Analyzed: 06/17/13

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx
Sample Extracts Passed Through a Silica Gel Column Prior to Analysis
Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 53-144)
EB-47-5.0 306147-23	19 x	80	137
EB-47-10.0 306147-25	<12	<21	127
Method Blank 03-1144 MB	<12	<21	127

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EB-28-1.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/13/13	Lab ID:	306147-01
Date Analyzed:	06/13/13	Data File:	061329.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EB-28-5.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/13/13	Lab ID:	306147-03
Date Analyzed:	06/13/13	Data File:	061330.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EB-28-10.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/13/13	Lab ID:	306147-05
Date Analyzed:	06/13/13	Data File:	061331.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EB-45-1.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/13/13	Lab ID:	306147-09
Date Analyzed:	06/13/13	Data File:	061332.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EB-45-5.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/28/13	Lab ID:	306147-11
Date Analyzed:	06/28/13	Data File:	062808.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

ht - Analysis performed outside the method or client-specified holding time requirement.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EB-45-10.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/13/13	Lab ID:	306147-13
Date Analyzed:	06/13/13	Data File:	061333.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EB-40-1.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/13/13	Lab ID:	306147-15
Date Analyzed:	06/13/13	Data File:	061334.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EB-40-5.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/13/13	Lab ID:	306147-17
Date Analyzed:	06/13/13	Data File:	061335.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EB-40-10.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/13/13	Lab ID:	306147-19
Date Analyzed:	06/13/13	Data File:	061336.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EB-47-1.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/13/13	Lab ID:	306147-21
Date Analyzed:	06/13/13	Data File:	061337.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EB-47-5.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/13/13	Lab ID:	306147-23
Date Analyzed:	06/13/13	Data File:	061338.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EB-47-10.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/13/13	Lab ID:	306147-25
Date Analyzed:	06/13/13	Data File:	061339.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/13/13	Lab ID:	03-1107 mb
Date Analyzed:	06/13/13	Data File:	061328.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/28/13	Lab ID:	03-1279 mb
Date Analyzed:	06/28/13	Data File:	062807.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	TB-061013	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/18/13	Lab ID:	306147-30
Date Analyzed:	06/18/13	Data File:	061811.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	97	50	150
4-Bromofluorobenzene	94	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13 pr	Dibromochloromethane	<0.24
Bromomethane	<0.2	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/18/13	Lab ID:	03-1114 mb
Date Analyzed:	06/18/13	Data File:	061809.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	96	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EB-28-1.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/18/13	Lab ID:	306147-01
Date Analyzed:	06/21/13	Data File:	062116.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	73	56	115
Phenol-d6	82	54	113
Nitrobenzene-d5	80	31	164
2-Fluorobiphenyl	83	47	133
2,4,6-Tribromophenol	94	35	141
Terphenyl-d14	99	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	0.017	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014
2-Methylphenol	<0.0064	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	<0.013
2-Methylnaphthalene	<0.001	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EB-28-5.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/18/13	Lab ID:	306147-03 1/20
Date Analyzed:	06/19/13	Data File:	061915.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	79 ds	56	115
Phenol-d6	81 ds	54	113
Nitrobenzene-d5	77 ds	31	164
2-Fluorobiphenyl	80 ds	47	133
2,4,6-Tribromophenol	89 ds	35	141
Terphenyl-d14	98 ds	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.11	2,4,6-Trichlorophenol	<0.16
Bis(2-chloroethyl) ether	<0.032	2,4,5-Trichlorophenol	<0.19
2-Chlorophenol	<0.12	2-Chloronaphthalene	<0.028
1,3-Dichlorobenzene	<0.052	2-Nitroaniline	<0.052
1,4-Dichlorobenzene	<0.048	Dimethyl phthalate	<0.024
1,2-Dichlorobenzene	<0.08	2,6-Dinitrotoluene	<0.036
Benzyl alcohol	<0.1	3-Nitroaniline	<0.35
Bis(2-chloroisopropyl) ether	<0.032	2,4-Dinitrophenol	<0.28
2-Methylphenol	<0.13	Dibenzofuran	<0.02
Hexachloroethane	<0.068	2,4-Dinitrotoluene	<0.032
N-Nitroso-di-n-propylamine	<0.06	4-Nitrophenol	<0.36
3-Methylphenol + 4-Methylphenol	<0.29	Diethyl phthalate	<0.08
Nitrobenzene	<0.052	4-Chlorophenyl phenyl ether	<0.032
Isophorone	<0.024	N-Nitrosodiphenylamine	<0.02
2-Nitrophenol	<0.16	4-Nitroaniline	<0.36
2,4-Dimethylphenol	<0.37	4,6-Dinitro-2-methylphenol	<0.21
Benzoic acid	<1.1	4-Bromophenyl phenyl ether	<0.032
Bis(2-chloroethoxy)methane	<0.028	Hexachlorobenzene	<0.02
2,4-Dichlorophenol	<0.12	Pentachlorophenol	<0.12
1,2,4-Trichlorobenzene	<0.068	Carbazole	<0.04
Hexachlorobutadiene	<0.04	Di-n-butyl phthalate	<0.4
4-Chloroaniline	<3.6	Benzyl butyl phthalate	<0.12
4-Chloro-3-methylphenol	<0.088	Bis(2-ethylhexyl) phthalate	<0.27
2-Methylnaphthalene	<0.02	Di-n-octyl phthalate	<0.068
Hexachlorocyclopentadiene	<0.044		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EB-28-10.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/18/13	Lab ID:	306147-05 1/200
Date Analyzed:	06/21/13	Data File:	062119.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	67 ds	56	115
Phenol-d6	53 ds	54	113
Nitrobenzene-d5	50 ds	31	164
2-Fluorobiphenyl	70 ds	47	133
2,4,6-Tribromophenol	40 ds	35	141
Terphenyl-d14	90 ds	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<1.1	2,4,6-Trichlorophenol	<1.6
Bis(2-chloroethyl) ether	<0.32	2,4,5-Trichlorophenol	<1.9
2-Chlorophenol	<1.2	2-Chloronaphthalene	<0.28
1,3-Dichlorobenzene	<0.52	2-Nitroaniline	<0.52
1,4-Dichlorobenzene	<0.48	Dimethyl phthalate	<0.24
1,2-Dichlorobenzene	<0.8	2,6-Dinitrotoluene	<0.36
Benzyl alcohol	<1	3-Nitroaniline	<3.5
Bis(2-chloroisopropyl) ether	<0.32	2,4-Dinitrophenol	<2.8
2-Methylphenol	<1.3	Dibenzofuran	<0.2
Hexachloroethane	<0.68	2,4-Dinitrotoluene	<0.32
N-Nitroso-di-n-propylamine	<0.6	4-Nitrophenol	<3.6
3-Methylphenol + 4-Methylphenol	<2.9	Diethyl phthalate	<0.8
Nitrobenzene	<0.52	4-Chlorophenyl phenyl ether	<0.32
Isophorone	<0.24	N-Nitrosodiphenylamine	<0.2
2-Nitrophenol	<1.6	4-Nitroaniline	<3.6
2,4-Dimethylphenol	<3.7	4,6-Dinitro-2-methylphenol	<2.1
Benzoic acid	<11	4-Bromophenyl phenyl ether	<0.32
Bis(2-chloroethoxy)methane	<0.28	Hexachlorobenzene	<0.2
2,4-Dichlorophenol	<1.2	Pentachlorophenol	<1.2
1,2,4-Trichlorobenzene	<0.68	Carbazole	<0.4
Hexachlorobutadiene	<0.4	Di-n-butyl phthalate	<4
4-Chloroaniline	<36	Benzyl butyl phthalate	<1.2
4-Chloro-3-methylphenol	<0.88	Bis(2-ethylhexyl) phthalate	<2.7
2-Methylnaphthalene	<0.2	Di-n-octyl phthalate	<0.68
Hexachlorocyclopentadiene	<0.44		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EB-45-1.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/18/13	Lab ID:	306147-09
Date Analyzed:	06/19/13	Data File:	061909.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	72	56	115
Phenol-d6	80	54	113
Nitrobenzene-d5	80	31	164
2-Fluorobiphenyl	82	47	133
2,4,6-Tribromophenol	94	35	141
Terphenyl-d14	102	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	0.016	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014
2-Methylphenol	<0.0064	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	<0.013
2-Methylnaphthalene	<0.001	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EB-45-5.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/18/13	Lab ID:	306147-11 1/200
Date Analyzed:	06/21/13	Data File:	062120.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	80 ds	56	115
Phenol-d6	73 ds	54	113
Nitrobenzene-d5	60 ds	31	164
2-Fluorobiphenyl	100 ds	47	133
2,4,6-Tribromophenol	67 ds	35	141
Terphenyl-d14	120 ds	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<1.1	2,4,6-Trichlorophenol	<1.6
Bis(2-chloroethyl) ether	<0.32	2,4,5-Trichlorophenol	<1.9
2-Chlorophenol	<1.2	2-Chloronaphthalene	<0.28
1,3-Dichlorobenzene	<0.52	2-Nitroaniline	<0.52
1,4-Dichlorobenzene	<0.48	Dimethyl phthalate	<0.24
1,2-Dichlorobenzene	<0.8	2,6-Dinitrotoluene	<0.36
Benzyl alcohol	<1	3-Nitroaniline	<3.5
Bis(2-chloroisopropyl) ether	<0.32	2,4-Dinitrophenol	<2.8
2-Methylphenol	<1.3	Dibenzofuran	<0.2
Hexachloroethane	<0.68	2,4-Dinitrotoluene	<0.32
N-Nitroso-di-n-propylamine	<0.6	4-Nitrophenol	<3.6
3-Methylphenol + 4-Methylphenol	<2.9	Diethyl phthalate	<0.8
Nitrobenzene	<0.52	4-Chlorophenyl phenyl ether	<0.32
Isophorone	<0.24	N-Nitrosodiphenylamine	<0.2
2-Nitrophenol	<1.6	4-Nitroaniline	<3.6
2,4-Dimethylphenol	<3.7	4,6-Dinitro-2-methylphenol	<2.1
Benzoic acid	<11	4-Bromophenyl phenyl ether	<0.32
Bis(2-chloroethoxy)methane	<0.28	Hexachlorobenzene	<0.2
2,4-Dichlorophenol	<1.2	Pentachlorophenol	<1.2
1,2,4-Trichlorobenzene	<0.68	Carbazole	<0.4
Hexachlorobutadiene	<0.4	Di-n-butyl phthalate	<4
4-Chloroaniline	<36	Benzyl butyl phthalate	<1.2
4-Chloro-3-methylphenol	<0.88	Bis(2-ethylhexyl) phthalate	<2.7
2-Methylnaphthalene	<0.2	Di-n-octyl phthalate	<0.68
Hexachlorocyclopentadiene	<0.44		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EB-45-10.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/18/13	Lab ID:	306147-13
Date Analyzed:	06/22/13	Data File:	062133.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	73	56	115
Phenol-d6	78	54	113
Nitrobenzene-d5	81	31	164
2-Fluorobiphenyl	75	47	133
2,4,6-Tribromophenol	101	35	141
Terphenyl-d14	107	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	0.0028
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	0.025	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014
2-Methylphenol	<0.0064	Dibenzofuran	0.0070
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062
1,2,4-Trichlorobenzene	<0.0034	Carbazole	0.019
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	0.15 fc
2-Methylnaphthalene	0.0042	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EB-40-1.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/18/13	Lab ID:	306147-15 1/400
Date Analyzed:	06/21/13	Data File:	062121.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	54 ds	56	115
Phenol-d6	54 ds	54	113
Nitrobenzene-d5	60 ds	31	164
2-Fluorobiphenyl	60 ds	47	133
2,4,6-Tribromophenol	14 ds	35	141
Terphenyl-d14	100 ds	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<2.2	2,4,6-Trichlorophenol	<3.2
Bis(2-chloroethyl) ether	<0.64	2,4,5-Trichlorophenol	<3.8
2-Chlorophenol	<2.5	2-Chloronaphthalene	<0.56
1,3-Dichlorobenzene	<1	2-Nitroaniline	<1
1,4-Dichlorobenzene	<0.96	Dimethyl phthalate	<0.48
1,2-Dichlorobenzene	<1.6	2,6-Dinitrotoluene	<0.72
Benzyl alcohol	<2	3-Nitroaniline	<7
Bis(2-chloroisopropyl) ether	<0.64	2,4-Dinitrophenol	<5.5
2-Methylphenol	<2.6	Dibenzofuran	<0.4
Hexachloroethane	<1.4	2,4-Dinitrotoluene	<0.64
N-Nitroso-di-n-propylamine	<1.2	4-Nitrophenol	<7.1
3-Methylphenol + 4-Methylphenol	<5.8	Diethyl phthalate	<1.6
Nitrobenzene	<1	4-Chlorophenyl phenyl ether	<0.64
Isophorone	<0.48	N-Nitrosodiphenylamine	<0.4
2-Nitrophenol	<3.3	4-Nitroaniline	<7.3
2,4-Dimethylphenol	<7.4	4,6-Dinitro-2-methylphenol	<4.2
Benzoic acid	<22	4-Bromophenyl phenyl ether	<0.64
Bis(2-chloroethoxy)methane	<0.56	Hexachlorobenzene	<0.4
2,4-Dichlorophenol	<2.3	Pentachlorophenol	<2.5
1,2,4-Trichlorobenzene	<1.4	Carbazole	<0.8
Hexachlorobutadiene	<0.8	Di-n-butyl phthalate	<8
4-Chloroaniline	<71	Benzyl butyl phthalate	<2.3
4-Chloro-3-methylphenol	<1.8	Bis(2-ethylhexyl) phthalate	<5.4
2-Methylnaphthalene	<0.4	Di-n-octyl phthalate	<1.4
Hexachlorocyclopentadiene	<0.88		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EB-40-5.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/18/13	Lab ID:	306147-17 1/20
Date Analyzed:	06/21/13	Data File:	062122.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	78 ds	56	115
Phenol-d6	89 ds	54	113
Nitrobenzene-d5	82 ds	31	164
2-Fluorobiphenyl	95 ds	47	133
2,4,6-Tribromophenol	94 ds	35	141
Terphenyl-d14	123 ds	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.11	2,4,6-Trichlorophenol	<0.16
Bis(2-chloroethyl) ether	<0.032	2,4,5-Trichlorophenol	<0.19
2-Chlorophenol	<0.12	2-Chloronaphthalene	<0.028
1,3-Dichlorobenzene	<0.052	2-Nitroaniline	<0.052
1,4-Dichlorobenzene	<0.048	Dimethyl phthalate	<0.024
1,2-Dichlorobenzene	<0.08	2,6-Dinitrotoluene	<0.036
Benzyl alcohol	<0.1	3-Nitroaniline	<0.35
Bis(2-chloroisopropyl) ether	<0.032	2,4-Dinitrophenol	<0.28
2-Methylphenol	<0.13	Dibenzofuran	0.25
Hexachloroethane	<0.068	2,4-Dinitrotoluene	<0.032
N-Nitroso-di-n-propylamine	<0.06	4-Nitrophenol	<0.36
3-Methylphenol + 4-Methylphenol	<0.29	Diethyl phthalate	<0.08
Nitrobenzene	<0.052	4-Chlorophenyl phenyl ether	<0.032
Isophorone	<0.024	N-Nitrosodiphenylamine	<0.02
2-Nitrophenol	<0.16	4-Nitroaniline	<0.36
2,4-Dimethylphenol	<0.37	4,6-Dinitro-2-methylphenol	<0.21
Benzoic acid	<1.1	4-Bromophenyl phenyl ether	<0.032
Bis(2-chloroethoxy)methane	<0.028	Hexachlorobenzene	<0.02
2,4-Dichlorophenol	<0.12	Pentachlorophenol	<0.12
1,2,4-Trichlorobenzene	<0.068	Carbazole	0.33
Hexachlorobutadiene	<0.04	Di-n-butyl phthalate	<0.4
4-Chloroaniline	<3.6	Benzyl butyl phthalate	<0.12
4-Chloro-3-methylphenol	<0.088	Bis(2-ethylhexyl) phthalate	<0.27
2-Methylnaphthalene	0.069	Di-n-octyl phthalate	<0.068
Hexachlorocyclopentadiene	<0.044		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EB-40-10.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/18/13	Lab ID:	306147-19
Date Analyzed:	06/21/13	Data File:	062114.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	65	56	115
Phenol-d6	66	54	113
Nitrobenzene-d5	71	31	164
2-Fluorobiphenyl	76	47	133
2,4,6-Tribromophenol	82	35	141
Terphenyl-d14	81	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	0.0095	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014
2-Methylphenol	<0.0064	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	<0.013
2-Methylnaphthalene	<0.001	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EB-47-1.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/18/13	Lab ID:	306147-21 1/20
Date Analyzed:	06/21/13	Data File:	062117.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	76 ds	56	115
Phenol-d6	77 ds	54	113
Nitrobenzene-d5	82 ds	31	164
2-Fluorobiphenyl	90 ds	47	133
2,4,6-Tribromophenol	76 ds	35	141
Terphenyl-d14	127 ds	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.11	2,4,6-Trichlorophenol	<0.16
Bis(2-chloroethyl) ether	<0.032	2,4,5-Trichlorophenol	<0.19
2-Chlorophenol	<0.12	2-Chloronaphthalene	<0.028
1,3-Dichlorobenzene	<0.052	2-Nitroaniline	<0.052
1,4-Dichlorobenzene	<0.048	Dimethyl phthalate	<0.024
1,2-Dichlorobenzene	<0.08	2,6-Dinitrotoluene	<0.036
Benzyl alcohol	<0.1	3-Nitroaniline	<0.35
Bis(2-chloroisopropyl) ether	<0.032	2,4-Dinitrophenol	<0.28
2-Methylphenol	<0.13	Dibenzofuran	<0.02
Hexachloroethane	<0.068	2,4-Dinitrotoluene	<0.032
N-Nitroso-di-n-propylamine	<0.06	4-Nitrophenol	<0.36
3-Methylphenol + 4-Methylphenol	<0.29	Diethyl phthalate	<0.08
Nitrobenzene	<0.052	4-Chlorophenyl phenyl ether	<0.032
Isophorone	<0.024	N-Nitrosodiphenylamine	<0.02
2-Nitrophenol	<0.16	4-Nitroaniline	<0.36
2,4-Dimethylphenol	<0.37	4,6-Dinitro-2-methylphenol	<0.21
Benzoic acid	<1.1	4-Bromophenyl phenyl ether	<0.032
Bis(2-chloroethoxy)methane	<0.028	Hexachlorobenzene	<0.02
2,4-Dichlorophenol	<0.12	Pentachlorophenol	<0.12
1,2,4-Trichlorobenzene	<0.068	Carbazole	<0.04
Hexachlorobutadiene	<0.04	Di-n-butyl phthalate	<0.4
4-Chloroaniline	<3.6	Benzyl butyl phthalate	<0.12
4-Chloro-3-methylphenol	<0.088	Bis(2-ethylhexyl) phthalate	<0.27
2-Methylnaphthalene	<0.02	Di-n-octyl phthalate	<0.068
Hexachlorocyclopentadiene	<0.044		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EB-47-5.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/18/13	Lab ID:	306147-23 1/20
Date Analyzed:	06/21/13	Data File:	062118.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	79 ds	56	115
Phenol-d6	80 ds	54	113
Nitrobenzene-d5	74 ds	31	164
2-Fluorobiphenyl	87 ds	47	133
2,4,6-Tribromophenol	81 ds	35	141
Terphenyl-d14	104 ds	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.11	2,4,6-Trichlorophenol	<0.16
Bis(2-chloroethyl) ether	<0.032	2,4,5-Trichlorophenol	<0.19
2-Chlorophenol	<0.12	2-Chloronaphthalene	<0.028
1,3-Dichlorobenzene	<0.052	2-Nitroaniline	<0.052
1,4-Dichlorobenzene	<0.048	Dimethyl phthalate	<0.024
1,2-Dichlorobenzene	<0.08	2,6-Dinitrotoluene	<0.036
Benzyl alcohol	<0.1	3-Nitroaniline	<0.35
Bis(2-chloroisopropyl) ether	<0.032	2,4-Dinitrophenol	<0.28
2-Methylphenol	<0.13	Dibenzofuran	0.026
Hexachloroethane	<0.068	2,4-Dinitrotoluene	<0.032
N-Nitroso-di-n-propylamine	<0.06	4-Nitrophenol	<0.36
3-Methylphenol + 4-Methylphenol	<0.29	Diethyl phthalate	<0.08
Nitrobenzene	<0.052	4-Chlorophenyl phenyl ether	<0.032
Isophorone	<0.024	N-Nitrosodiphenylamine	<0.02
2-Nitrophenol	<0.16	4-Nitroaniline	<0.36
2,4-Dimethylphenol	<0.37	4,6-Dinitro-2-methylphenol	<0.21
Benzoic acid	<1.1	4-Bromophenyl phenyl ether	<0.032
Bis(2-chloroethoxy)methane	<0.028	Hexachlorobenzene	<0.02
2,4-Dichlorophenol	<0.12	Pentachlorophenol	<0.12
1,2,4-Trichlorobenzene	<0.068	Carbazole	0.046
Hexachlorobutadiene	<0.04	Di-n-butyl phthalate	<0.4
4-Chloroaniline	<3.6	Benzyl butyl phthalate	<0.12
4-Chloro-3-methylphenol	<0.088	Bis(2-ethylhexyl) phthalate	<0.27
2-Methylnaphthalene	<0.02	Di-n-octyl phthalate	<0.068
Hexachlorocyclopentadiene	<0.044		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EB-47-10.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/18/13	Lab ID:	306147-25
Date Analyzed:	06/21/13	Data File:	062115.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	64	56	115
Phenol-d6	73	54	113
Nitrobenzene-d5	72	31	164
2-Fluorobiphenyl	72	47	133
2,4,6-Tribromophenol	89	35	141
Terphenyl-d14	82	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	0.016	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014
2-Methylphenol	<0.0064	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	<0.013
2-Methylnaphthalene	<0.001	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/18/13	Lab ID:	03-1182 mb
Date Analyzed:	06/19/13	Data File:	061905.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	82	56	115
Phenol-d6	93	54	113
Nitrobenzene-d5	92	31	164
2-Fluorobiphenyl	91	47	133
2,4,6-Tribromophenol	97	35	141
Terphenyl-d14	97	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	<0.005	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014
2-Methylphenol	<0.0064	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	<0.013
2-Methylnaphthalene	<0.001	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EB-45-12.5	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	306147-14 1/10
Date Analyzed:	06/26/13	Data File:	062615.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	66	56	115
Phenol-d6	68	54	113
Nitrobenzene-d5	75	31	164
2-Fluorobiphenyl	80	47	133
2,4,6-Tribromophenol	74	35	141
Terphenyl-d14	104	64	125

Compounds:	Concentration mg/kg (ppm)
2-Methylphenol	<0.064
Bis(2-ethylhexyl) phthalate	<0.13

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	03-1236 mb
Date Analyzed:	06/25/13	Data File:	062506.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	79	56	115
Phenol-d6	88	54	113
Nitrobenzene-d5	92	31	164
2-Fluorobiphenyl	90	47	133
2,4,6-Tribromophenol	96	35	141
Terphenyl-d14	95	64	125

Compounds:	Concentration mg/kg (ppm)
2-Methylphenol	<0.0064
Bis(2-ethylhexyl) phthalate	<0.013

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-28-1.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/18/13	Lab ID:	306147-01
Date Analyzed:	06/19/13	Data File:	061912.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	99	50	150
Benzo(a)anthracene-d12	138	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.00031
Acenaphthylene	0.00032
Acenaphthene	0.00022
Fluorene	0.00022
Phenanthrene	0.0013
Anthracene	0.0019
Fluoranthene	0.0021
Pyrene	0.0028
Benz(a)anthracene	0.0015
Chrysene	0.0051
Benzo(a)pyrene	0.0026
Benzo(b)fluoranthene	0.0043
Benzo(k)fluoranthene	0.0010
Indeno(1,2,3-cd)pyrene	0.0035
Dibenz(a,h)anthracene	0.00090
Benzo(g,h,i)perylene	0.0038

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-28-5.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/18/13	Lab ID:	306147-03 1/10
Date Analyzed:	06/23/13	Data File:	062229.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	95 ds	50	150
Benzo(a)anthracene-d12	94 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.0022
Acenaphthylene	0.0010
Acenaphthene	0.0039
Fluorene	0.010
Phenanthrene	0.050
Anthracene	0.050
Fluoranthene	0.17
Pyrene	0.19
Benz(a)anthracene	0.087
Chrysene	0.10
Benzo(a)pyrene	0.072
Benzo(b)fluoranthene	0.11
Benzo(k)fluoranthene	0.032
Indeno(1,2,3-cd)pyrene	0.049
Dibenz(a,h)anthracene	0.012
Benzo(g,h,i)perylene	0.042

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-28-10.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/18/13	Lab ID:	306147-05 1/20
Date Analyzed:	07/15/13	Data File:	071509.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	125 ds	50	150
Benzo(a)anthracene-d12	131 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.0044
Acenaphthylene	<0.0018
Acenaphthene	<0.0028
Fluorene	<0.003
Phenanthrene	<0.0064
Anthracene	<0.0018
Fluoranthene	<0.0056
Pyrene	<0.0052
Benz(a)anthracene	<0.0036
Chrysene	<0.0038
Benzo(a)pyrene	<0.0044
Benzo(b)fluoranthene	<0.0036
Benzo(k)fluoranthene	<0.0072
Indeno(1,2,3-cd)pyrene	<0.012
Dibenz(a,h)anthracene	<0.0068
Benzo(g,h,i)perylene	0.012

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-45-1.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/18/13	Lab ID:	306147-09
Date Analyzed:	06/19/13	Data File:	061909.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	94	50	150
Benzo(a)anthracene-d12	104	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.00022
Acenaphthylene	<0.000091
Acenaphthene	<0.00014
Fluorene	<0.00015
Phenanthrene	<0.00032
Anthracene	0.00051
Fluoranthene	<0.00028
Pyrene	<0.00026
Benz(a)anthracene	<0.00018
Chrysene	0.0016
Benzo(a)pyrene	<0.00022
Benzo(b)fluoranthene	0.00023
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	<0.00062
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	<0.00034

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-45-5.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/18/13	Lab ID:	306147-11 1/200
Date Analyzed:	06/19/13	Data File:	061914.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	393 ds	50	150
Benzo(a)anthracene-d12	217 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.10
Acenaphthylene	0.022
Acenaphthene	0.62
Fluorene	0.59
Phenanthrene	4.3
Anthracene	1.4
Fluoranthene	4.5
Pyrene	4.5
Benz(a)anthracene	1.9
Chrysene	2.3
Benzo(a)pyrene	1.9
Benzo(b)fluoranthene	2.1
Benzo(k)fluoranthene	0.82
Indeno(1,2,3-cd)pyrene	1.2
Dibenz(a,h)anthracene	0.30
Benzo(g,h,i)perylene	1.1

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-45-10.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/18/13	Lab ID:	306147-13 1/10
Date Analyzed:	06/19/13	Data File:	061919.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	171 ds	50	150
Benzo(a)anthracene-d12	133 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.0047
Acenaphthylene	0.011
Acenaphthene	0.0089
Fluorene	0.011
Phenanthrene	0.15
Anthracene	0.17
Fluoranthene	0.47
Pyrene	0.52
Benz(a)anthracene	0.35
Chrysene	0.86 ve
Benzo(a)pyrene	0.55
Benzo(b)fluoranthene	0.64
Benzo(k)fluoranthene	0.25
Indeno(1,2,3-cd)pyrene	0.42
Dibenz(a,h)anthracene	0.099
Benzo(g,h,i)perylene	0.45

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-45-10.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/18/13	Lab ID:	306147-13 1/100
Date Analyzed:	06/23/13	Data File:	062230.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	343 ds	50	150
Benzo(a)anthracene-d12	141 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.022
Acenaphthylene	<0.0091
Acenaphthene	<0.014
Fluorene	<0.015
Phenanthrene	0.15
Anthracene	0.16
Fluoranthene	0.48
Pyrene	0.53
Benz(a)anthracene	0.35
Chrysene	0.83
Benzo(a)pyrene	0.55
Benzo(b)fluoranthene	0.66
Benzo(k)fluoranthene	0.22
Indeno(1,2,3-cd)pyrene	0.48
Dibenz(a,h)anthracene	0.11
Benzo(g,h,i)perylene	0.51

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-40-1.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/18/13	Lab ID:	306147-15 1/200
Date Analyzed:	06/23/13	Data File:	062234.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	380 ds	50	150
Benzo(a)anthracene-d12	262 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.044
Acenaphthylene	<0.018
Acenaphthene	0.039
Fluorene	<0.03
Phenanthrene	0.16
Anthracene	<0.018
Fluoranthene	<0.056
Pyrene	0.085
Benz(a)anthracene	0.047
Chrysene	0.096
Benzo(a)pyrene	<0.044
Benzo(b)fluoranthene	0.068
Benzo(k)fluoranthene	<0.072
Indeno(1,2,3-cd)pyrene	<0.12
Dibenz(a,h)anthracene	<0.068
Benzo(g,h,i)perylene	<0.068

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-40-5.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/18/13	Lab ID:	306147-17 1/20
Date Analyzed:	06/19/13	Data File:	061915.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	114 ds	50	150
Benzo(a)anthracene-d12	148 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.026
Acenaphthylene	0.015
Acenaphthene	0.12
Fluorene	0.14
Phenanthrene	1.3
Anthracene	2.4 ve
Fluoranthene	4.8 ve
Pyrene	4.5 ve
Benz(a)anthracene	2.3 ve
Chrysene	2.9 ve
Benzo(a)pyrene	1.5 ve
Benzo(b)fluoranthene	2.1 ve
Benzo(k)fluoranthene	0.74
Indeno(1,2,3-cd)pyrene	0.76
Dibenz(a,h)anthracene	0.23
Benzo(g,h,i)perylene	0.63

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-40-5.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/18/13	Lab ID:	306147-17 1/200
Date Analyzed:	06/24/13	Data File:	062406.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	479 ds	50	150
Benzo(a)anthracene-d12	144 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.044
Acenaphthylene	<0.018
Acenaphthene	0.12
Fluorene	0.13
Phenanthrene	1.2
Anthracene	2.3
Fluoranthene	5.1
Pyrene	4.8
Benz(a)anthracene	2.1
Chrysene	3.1
Benzo(a)pyrene	1.4
Benzo(b)fluoranthene	2.1
Benzo(k)fluoranthene	0.61
Indeno(1,2,3-cd)pyrene	0.68
Dibenz(a,h)anthracene	0.19
Benzo(g,h,i)perylene	0.61

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-40-10.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/18/13	Lab ID:	306147-19
Date Analyzed:	06/19/13	Data File:	061910.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	83	50	150
Benzo(a)anthracene-d12	91	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.00022
Acenaphthylene	<0.000091
Acenaphthene	<0.00014
Fluorene	<0.00015
Phenanthrene	0.00040
Anthracene	<0.000088
Fluoranthene	<0.00028
Pyrene	<0.00026
Benz(a)anthracene	<0.00018
Chrysene	<0.00019
Benzo(a)pyrene	<0.00022
Benzo(b)fluoranthene	<0.00018
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	<0.00062
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	<0.00034

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-47-1.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/18/13	Lab ID:	306147-21
Date Analyzed:	06/23/13	Data File:	062233.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	90	50	150
Benzo(a)anthracene-d12	115	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.00022
Acenaphthylene	<0.000091
Acenaphthene	<0.00014
Fluorene	<0.00015
Phenanthrene	0.0018
Anthracene	0.00020
Fluoranthene	0.00053
Pyrene	0.0019
Benz(a)anthracene	0.0010
Chrysene	0.0029
Benzo(a)pyrene	0.0011
Benzo(b)fluoranthene	0.0023
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	0.00074
Dibenz(a,h)anthracene	0.00083
Benzo(g,h,i)perylene	0.0018

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-47-5.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/18/13	Lab ID:	306147-23 1/20
Date Analyzed:	06/19/13	Data File:	061917.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	150 ds	50	150
Benzo(a)anthracene-d12	141 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.021
Acenaphthylene	0.0089
Acenaphthene	0.061
Fluorene	0.079
Phenanthrene	0.73
Anthracene	0.16
Fluoranthene	1.6 ve
Pyrene	1.3
Benz(a)anthracene	0.70
Chrysene	0.69
Benzo(a)pyrene	0.57
Benzo(b)fluoranthene	0.93
Benzo(k)fluoranthene	0.24
Indeno(1,2,3-cd)pyrene	0.37
Dibenz(a,h)anthracene	0.091
Benzo(g,h,i)perylene	0.32

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-47-5.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/18/13	Lab ID:	306147-23 1/200
Date Analyzed:	06/23/13	Data File:	062232.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	509 ds	50	150
Benzo(a)anthracene-d12	137 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.044
Acenaphthylene	<0.018
Acenaphthene	0.061
Fluorene	0.073
Phenanthrene	0.73
Anthracene	0.15
Fluoranthene	1.6
Pyrene	1.4
Benz(a)anthracene	0.66
Chrysene	0.68
Benzo(a)pyrene	0.57
Benzo(b)fluoranthene	0.87
Benzo(k)fluoranthene	0.31
Indeno(1,2,3-cd)pyrene	0.40
Dibenz(a,h)anthracene	0.092
Benzo(g,h,i)perylene	0.35

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-47-10.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/18/13	Lab ID:	306147-25
Date Analyzed:	06/19/13	Data File:	061906.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	74	50	150
Benzo(a)anthracene-d12	83	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.00022
Acenaphthylene	<0.000091
Acenaphthene	<0.00014
Fluorene	<0.00015
Phenanthrene	0.00061
Anthracene	<0.000088
Fluoranthene	<0.00028
Pyrene	0.00032
Benz(a)anthracene	<0.00018
Chrysene	<0.00019
Benzo(a)pyrene	<0.00022
Benzo(b)fluoranthene	0.00018
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	<0.00062
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	<0.00034

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/18/13	Lab ID:	03-1181 mb
Date Analyzed:	06/19/13	Data File:	061905.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	94	50	150
Benzo(a)anthracene-d12	110	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.00022
Acenaphthylene	<0.000091
Acenaphthene	<0.00014
Fluorene	<0.00015
Phenanthrene	<0.00032
Anthracene	<0.000088
Fluoranthene	<0.00028
Pyrene	<0.00026
Benz(a)anthracene	<0.00018
Chrysene	<0.00019
Benzo(a)pyrene	<0.00022
Benzo(b)fluoranthene	<0.00018
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	<0.00062
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	<0.00034

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-45-12.5	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	306147-14 1/10
Date Analyzed:	06/25/13	Data File:	062510.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	141 ds	50	150
Benzo(a)anthracene-d12	84 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.0022
Phenanthrene	0.14
Fluoranthene	0.26
Benz(a)anthracene	0.085
Chrysene	0.091
Benzo(a)pyrene	0.047
Benzo(b)fluoranthene	0.072
Benzo(k)fluoranthene	0.025
Indeno(1,2,3-cd)pyrene	0.019
Dibenz(a,h)anthracene	0.0045
Benzo(g,h,i)perylene	0.016

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	03-1235 mb
Date Analyzed:	06/25/13	Data File:	062506B.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	82	50	150
Benzo(a)anthracene-d12	84	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.00022
Acenaphthylene	<0.000091
Acenaphthene	<0.00014
Fluorene	<0.00015
Phenanthrene	<0.00032
Anthracene	<0.000088
Fluoranthene	<0.00028
Pyrene	<0.00026
Benz(a)anthracene	<0.00018
Chrysene	<0.00019
Benzo(a)pyrene	<0.00022
Benzo(b)fluoranthene	<0.00018
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	<0.00062
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	<0.00034

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EB-28-1.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/11/13	Lab ID:	306147-01
Date Analyzed:	06/13/13	Data File:	52.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	103	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EB-28-5.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/11/13	Lab ID:	306147-03 1/10
Date Analyzed:	06/18/13	Data File:	96.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	85 ds	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.33
Aroclor 1232	<0.33
Aroclor 1016	<0.33
Aroclor 1242	<0.33
Aroclor 1248	<0.33
Aroclor 1254	<0.33
Aroclor 1260	<0.33

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EB-28-10.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/11/13	Lab ID:	306147-05
Date Analyzed:	07/12/13	Data File:	T: \07-11-13\071178.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	99	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EB-45-1.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/11/13	Lab ID:	306147-09
Date Analyzed:	06/13/13	Data File:	36.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	104	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EB-45-5.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/11/13	Lab ID:	306147-11 1/10
Date Analyzed:	07/12/13	Data File:	80.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	185 ds	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.33
Aroclor 1232	<0.33
Aroclor 1016	<0.33
Aroclor 1242	<0.33
Aroclor 1248	<0.33
Aroclor 1254	<0.33
Aroclor 1260	<0.33

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EB-45-10.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/11/13	Lab ID:	306147-13
Date Analyzed:	06/13/13	Data File:	40.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	96	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EB-40-1.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/11/13	Lab ID:	306147-15 1/10
Date Analyzed:	07/12/13	Data File:	82.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	120 ds	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.33
Aroclor 1232	<0.33
Aroclor 1016	<0.33
Aroclor 1242	<0.33
Aroclor 1248	<0.33
Aroclor 1254	<0.33
Aroclor 1260	<0.33

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EB-40-5.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/11/13	Lab ID:	306147-17
Date Analyzed:	06/13/13	Data File:	56.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	79	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	0.12
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EB-40-10.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/11/13	Lab ID:	306147-19
Date Analyzed:	06/13/13	Data File:	42.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	92	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EB-47-1.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/11/13	Lab ID:	306147-21 1/10
Date Analyzed:	06/18/13	Data File:	94.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	100 ds	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.33
Aroclor 1232	<0.33
Aroclor 1016	<0.33
Aroclor 1242	<0.33
Aroclor 1248	<0.33
Aroclor 1254	<0.33
Aroclor 1260	<0.33

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EB-47-5.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/11/13	Lab ID:	306147-23
Date Analyzed:	06/14/13	Data File:	60.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	88	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	0.17
Aroclor 1260	0.16

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EB-47-10.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/11/13	Lab ID:	306147-25
Date Analyzed:	06/13/13	Data File:	44.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	94	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/11/13	Lab ID:	03-1140 mb
Date Analyzed:	06/13/13	Data File:	32.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	99	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For Total Metals By EPA Method 200.8

Client ID:	EB-28-1.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/13/13	Lab ID:	306147-01
Date Analyzed:	06/14/13	Data File:	306147-01.039
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	122	60	125
Indium	100	60	125
Holmium	107	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.147
Chromium	12.4
Nickel	20.1
Copper	16.7 fb
Zinc	23.5
Arsenic	3.99
Selenium	<0.91
Silver	<0.079 j
Cadmium	<0.20
Antimony	0.746
Barium	40.4
Thallium	0.076
Lead	2.78

Analysis For Total Metals By EPA Method 200.8

Client ID:	EB-28-5.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/13/13	Lab ID:	306147-03
Date Analyzed:	06/14/13	Data File:	306147-03.042
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	143 vo	60	125
Indium	145	60	125
Holmium	110	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.396 J
Chromium	24.8 J
Nickel	14.8 J
Copper	373 J fb
Zinc	1,360 J
Arsenic	374
Selenium	<0.91
Silver	0.938
Cadmium	1.04
Antimony	239
Barium	74.8
Thallium	0.221
Lead	471

Analysis For Total Metals By EPA Method 200.8

Client ID:	EB-28-5.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/13/13	Lab ID:	306147-03 x10
Date Analyzed:	06/14/13	Data File:	306147-03 x10.057
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	101	60	125
Indium	97	60	125
Holmium	97	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	<0.86
Chromium	36.2
Nickel	21.7
Copper	535 fb
Zinc	1,920
Arsenic	564
Selenium	<9.1
Silver	1.27
Cadmium	<2
Antimony	349
Barium	113
Thallium	<0.44 j
Lead	524

Analysis For Total Metals By EPA Method 200.8

Client ID:	EB-28-10.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/13/13	Lab ID:	306147-05
Date Analyzed:	06/14/13	Data File:	306147-05.044
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	120	60	125
Indium	104	60	125
Holmium	109	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.216
Chromium	6.63
Nickel	4.94
Copper	9.70 fb
Zinc	22.3
Arsenic	1.05
Selenium	<0.91
Silver	<0.079 j
Cadmium	0.222
Antimony	1.17
Barium	25.9
Thallium	0.0463
Lead	1.46

Analysis For Total Metals By EPA Method 200.8

Client ID:	EB-45-1.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/13/13	Lab ID:	306147-09
Date Analyzed:	06/14/13	Data File:	306147-09.045
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	115	60	125
Indium	99	60	125
Holmium	106	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.156
Chromium	12.6
Nickel	20.3
Copper	10.4 fb
Zinc	21.6
Arsenic	2.77
Selenium	<0.91
Silver	<0.079 j
Cadmium	<0.20
Antimony	0.582
Barium	32.6
Thallium	<0.044 j
Lead	2.53

Analysis For Total Metals By EPA Method 200.8

Client ID:	EB-45-5.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/13/13	Lab ID:	306147-11
Date Analyzed:	06/14/13	Data File:	306147-11.046
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	119	60	125
Indium	102	60	125
Holmium	106	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.207
Chromium	17.6
Nickel	20.1
Copper	52.5 fb
Zinc	191
Arsenic	70.9
Selenium	<0.91
Silver	0.107
Cadmium	0.283
Antimony	34.2
Barium	58.4
Thallium	0.0511
Lead	53.6

Analysis For Total Metals By EPA Method 200.8

Client ID:	EB-45-10.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/13/13	Lab ID:	306147-13
Date Analyzed:	06/14/13	Data File:	306147-13.047
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	121	60	125
Indium	102	60	125
Holmium	107	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.179
Chromium	20.0
Nickel	11.8
Copper	34.8 fb
Zinc	77.2
Arsenic	14.0
Selenium	<0.91
Silver	0.107
Cadmium	0.267
Antimony	7.22
Barium	70.4
Thallium	<0.044 j
Lead	38.0

Analysis For Total Metals By EPA Method 200.8

Client ID:	EB-40-1.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/13/13	Lab ID:	306147-15
Date Analyzed:	06/14/13	Data File:	306147-15.048
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	118	60	125
Indium	102	60	125
Holmium	108	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.194
Chromium	21.6
Nickel	10.6
Copper	14.8 fb
Zinc	21.7
Arsenic	3.66
Selenium	<0.91
Silver	<0.079 j
Cadmium	<0.20
Antimony	0.478
Barium	31.0
Thallium	<0.044 j
Lead	3.82

Analysis For Total Metals By EPA Method 200.8

Client ID:	EB-40-5.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/13/13	Lab ID:	306147-17
Date Analyzed:	06/14/13	Data File:	306147-17.049
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	121	60	125
Indium	107	60	125
Holmium	112	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.216
Chromium	15.5
Nickel	23.2
Copper	48.6 fb
Zinc	162
Arsenic	48.4
Selenium	<0.91
Silver	0.0859
Cadmium	0.274
Antimony	34.1
Barium	49.7
Thallium	<0.044 j
Lead	60.4

Analysis For Total Metals By EPA Method 200.8

Client ID:	EB-40-10.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/13/13	Lab ID:	306147-19
Date Analyzed:	06/14/13	Data File:	306147-19.050
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	117	60	125
Indium	106	60	125
Holmium	115	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.105
Chromium	5.53
Nickel	4.27
Copper	8.81 fb
Zinc	12.3
Arsenic	1.67
Selenium	<0.91
Silver	<0.079 j
Cadmium	<0.20
Antimony	0.176
Barium	15.7
Thallium	<0.044 j
Lead	1.20

Analysis For Total Metals By EPA Method 200.8

Client ID:	EB-47-1.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/13/13	Lab ID:	306147-21
Date Analyzed:	06/14/13	Data File:	306147-21.051
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	118	60	125
Indium	104	60	125
Holmium	113	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.155
Chromium	8.60
Nickel	12.3
Copper	14.2 fb
Zinc	20.6
Arsenic	3.69
Selenium	<0.91
Silver	<0.79 j
Cadmium	<0.20
Antimony	0.866
Barium	26.8
Thallium	<0.044 j
Lead	3.19

Analysis For Total Metals By EPA Method 200.8

Client ID:	EB-47-5.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/13/13	Lab ID:	306147-23
Date Analyzed:	06/14/13	Data File:	306147-23.052
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	128 vo	60	125
Indium	116	60	125
Holmium	113	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.238 J
Chromium	17.4 J
Nickel	12.9 J
Copper	130 J fb
Zinc	401 J
Arsenic	102
Selenium	<0.91
Silver	0.192
Cadmium	0.447
Antimony	82.2
Barium	53.2
Thallium	0.0582
Lead	126

Analysis For Total Metals By EPA Method 200.8

Client ID:	EB-47-5.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/13/13	Lab ID:	306147-23 x10
Date Analyzed:	06/14/13	Data File:	306147-23 x10.063
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	122	60	125
Indium	106	60	125
Holmium	110	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	<0.86
Chromium	16.9
Nickel	13.1
Copper	129 fb
Zinc	407
Arsenic	107
Selenium	<9.1
Silver	<0.79 j
Cadmium	<2.0
Antimony	83.8
Barium	54.8
Thallium	<0.44 j
Lead	120

Analysis For Total Metals By EPA Method 200.8

Client ID:	EB-47-10.0	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/13/13	Lab ID:	306147-25
Date Analyzed:	06/14/13	Data File:	306147-25.053
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	121	60	125
Indium	107	60	125
Holmium	114	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.229
Chromium	9.15
Nickel	7.96
Copper	15.4 fb
Zinc	19.2
Arsenic	3.57
Selenium	<0.91
Silver	<0.079 j
Cadmium	<0.20
Antimony	0.486
Barium	38.5
Thallium	0.0481
Lead	2.61

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/13/13	Lab ID:	I3-342 mb
Date Analyzed:	06/14/13	Data File:	I3-342 mb.037
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	100	60	125
Indium	98	60	125
Holmium	100	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	<0.086
Chromium	<0.47
Nickel	<0.21
Copper	0.11 j
Zinc	<0.97
Arsenic	<0.42 j
Selenium	<0.91
Silver	<0.079 j
Cadmium	<0.20
Antimony	<0.11 j
Barium	<0.052 j
Thallium	<0.044 j
Lead	<0.050 j

Analysis For Total Metals By EPA Method 200.8

Client ID:	EB-45-12.5	Client:	SLR International Corp.
Date Received:	06/10/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/21/13	Lab ID:	306147-14
Date Analyzed:	06/28/13	Data File:	306147-14.060
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	105	60	125
Holmium	110	60	125

Analyte:	Concentration mg/kg (ppm)
Arsenic	4.32
Silver	<0.079 j
Antimony	1.23
Barium	33.0
Lead	9.79

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/21/13	Lab ID:	I3-362 mb
Date Analyzed:	06/28/13	Data File:	I3-362 mb.059
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	104	60	125
Holmium	105	60	125

Analyte:	Concentration mg/kg (ppm)
Arsenic	<0.42 j
Silver	<0.079 j
Antimony	<0.11 j
Barium	<0.052 j
Lead	<0.050 j

Date of Report: 07/19/13
Date Received: 06/10/13
Project: Crowley RIFS 101.00205.00019, F&BI 306147
Date Extracted: 06/13/13 and 06/21/13
Date Analyzed: 06/17/13 and 06/24/13

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL MERCURY
USING EPA METHOD 1631E

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Total Mercury
EB-28-1.0 306147-01	0.020
EB-28-5.0 306147-03 1/5	0.44
EB-28-10.0 306147-05	0.014
EB-45-1.0 306147-09	0.015
EB-45-5.0 306147-11	0.044
EB-45-10.0 306147-13	0.095
EB-45-12.5 306147-14	0.023
EB-40-1.0 306147-15	0.018
EB-40-5.0 306147-17	0.039
EB-40-10.0 306147-19	0.012

Date of Report: 07/19/13
Date Received: 06/10/13
Project: Crowley RIFS 101.00205.00019, F&BI 306147
Date Extracted: 06/13/13 and 06/21/13
Date Analyzed: 06/17/13 and 06/24/13

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Total Mercury
EB-47-1.0 306147-21	0.014
EB-47-5.0 306147-23	0.11
EB-47-10.0 306147-25	0.033
Method Blank	<0.002
Method Blank	<0.002

Date of Report: 07/19/13
Date Received: 06/10/13
Project: Crowley RIFS 101.00205.00019, F&BI 306147

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 306147-09 (Matrix Spike) Silica Gel

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	500	<12	133	127	64-133	5

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	500	140	58-147

Date of Report: 07/19/13
Date Received: 06/10/13
Project: Crowley RIFS 101.00205.00019, F&BI 306147

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 306147-11 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	mg/kg (ppm)	2.5	<0.02	22	19	10-56	15
Chloromethane	mg/kg (ppm)	2.5	<0.026	47	44	10-90	7
Vinyl chloride	mg/kg (ppm)	2.5	<0.016	49	45	10-91	9
Bromomethane	mg/kg (ppm)	2.5	<0.034	73	89	10-110	20
Chloroethane	mg/kg (ppm)	2.5	<0.024	66	58	10-101	13
Trichlorofluoromethane	mg/kg (ppm)	2.5	<0.02	58	54	10-95	7
Acetone	mg/kg (ppm)	12.5	<0.2	82	75	11-141	9
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.026	70	66	11-103	6
Methylene chloride	mg/kg (ppm)	2.5	<0.054	80	71	14-128	12
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2.5	<0.013	79	75	17-134	5
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.024	74	70	13-112	6
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.017	77	73	23-115	5
2,2-Dichloropropane	mg/kg (ppm)	2.5	<0.026	69	73	18-117	6
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.022	79	75	25-120	5
Chloroform	mg/kg (ppm)	2.5	<0.017	80	76	29-117	5
2-Butanone (MEK)	mg/kg (ppm)	12.5	<0.14	82	77	20-133	6
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.016	79	74	22-124	7
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.022	77	75	27-112	3
1,1-Dichloropropene	mg/kg (ppm)	2.5	<0.024	78	73	26-107	7
Carbon tetrachloride	mg/kg (ppm)	2.5	<0.03	79	77	22-115	3
Benzene	mg/kg (ppm)	2.5	<0.014	77	72	26-114	7
Trichloroethene	mg/kg (ppm)	2.5	<0.034	79	75	30-112	5
1,2-Dichloropropane	mg/kg (ppm)	2.5	<0.034	83	77	31-119	7
Bromodichloromethane	mg/kg (ppm)	2.5	<0.024	87	82	31-131	6
Dibromomethane	mg/kg (ppm)	2.5	<0.022	82	77	27-124	6
4-Methyl-2-pentanone	mg/kg (ppm)	12.5	<0.14	90	82	16-147	9
cis-1,3-Dichloropropene	mg/kg (ppm)	2.5	<0.022	89	84	28-137	6
Toluene	mg/kg (ppm)	2.5	<0.017	79	74	34-112	7
trans-1,3-Dichloropropene	mg/kg (ppm)	2.5	<0.015	85	81	30-136	5
1,1,2-Trichloroethane	mg/kg (ppm)	2.5	<0.014	86	79	32-126	8
2-Hexanone	mg/kg (ppm)	12.5	<0.096	89	79	17-147	12
1,3-Dichloropropane	mg/kg (ppm)	2.5	<0.02	86	78	29-125	10
Tetrachloroethene	mg/kg (ppm)	2.5	<0.026	78	74	27-110	5
Dibromochloromethane	mg/kg (ppm)	2.5	<0.026	87	81	32-143	7
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2.5	<0.03	89	84	32-126	6
Chlorobenzene	mg/kg (ppm)	2.5	<0.014	81	76	37-113	6
Ethylbenzene	mg/kg (ppm)	2.5	<0.013	81	77	38-111	5
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	2.5	<0.028	88	84	35-126	5
m,p-Xylene	mg/kg (ppm)	5	<0.03	81	77	38-112	5
o-Xylene	mg/kg (ppm)	2.5	<0.034	82	77	38-113	6
Styrene	mg/kg (ppm)	2.5	<0.022	85	79	38-118	7
Isopropylbenzene	mg/kg (ppm)	2.5	<0.019	83	79	37-114	5
Bromoform	mg/kg (ppm)	2.5	<0.034	88	82	18-155	7
n-Propylbenzene	mg/kg (ppm)	2.5	<0.017	84	79	36-114	6
Bromobenzene	mg/kg (ppm)	2.5	<0.012	83	78	40-115	6
1,3,5-Trimethylbenzene	mg/kg (ppm)	2.5	<0.011	85	80	35-116	6
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	2.5	<0.036	89	82	33-128	8
1,2,3-Trichloropropane	mg/kg (ppm)	2.5	<0.022	86	79	33-123	8
2-Chlorotoluene	mg/kg (ppm)	2.5	<0.016	82	77	39-110	6
4-Chlorotoluene	mg/kg (ppm)	2.5	<0.019	84	78	39-111	7
tert-Butylbenzene	mg/kg (ppm)	2.5	<0.022	85	80	36-116	6
1,2,4-Trimethylbenzene	mg/kg (ppm)	2.5	<0.016	84	79	35-116	6
sec-Butylbenzene	mg/kg (ppm)	2.5	<0.015	84	80	33-118	5
p-Isopropyltoluene	mg/kg (ppm)	2.5	<0.012	84	80	32-119	5
1,3-Dichlorobenzene	mg/kg (ppm)	2.5	<0.02	80	76	38-111	5
1,4-Dichlorobenzene	mg/kg (ppm)	2.5	<0.032	79	74	39-109	7
1,2-Dichlorobenzene	mg/kg (ppm)	2.5	<0.016	79	76	40-111	4
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	2.5	<0.08	86	83	34-134	4
1,2,4-Trichlorobenzene	mg/kg (ppm)	2.5	<0.036	78	77	31-117	1
Hexachlorobutadiene	mg/kg (ppm)	2.5	<0.04	78	74	25-122	5
Naphthalene	mg/kg (ppm)	2.5	<0.024	84	82	39-120	2
1,2,3-Trichlorobenzene	mg/kg (ppm)	2.5	<0.019	76	75	35-117	1

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Dichlorodifluoromethane	mg/kg (ppm)	2.5	46	10-76
Chloromethane	mg/kg (ppm)	2.5	68	34-98
Vinyl chloride	mg/kg (ppm)	2.5	76	42-107
Bromomethane	mg/kg (ppm)	2.5	106	46-113
Chloroethane	mg/kg (ppm)	2.5	79	47-115
Trichlorofluoromethane	mg/kg (ppm)	2.5	88	53-112
Acetone	mg/kg (ppm)	12.5	107	39-147
1,1-Dichloroethene	mg/kg (ppm)	2.5	97	65-110
Methylene chloride	mg/kg (ppm)	2.5	96	62-119
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2.5	99	72-122
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	97	71-113
1,1-Dichloroethane	mg/kg (ppm)	2.5	99	76-109
2,2-Dichloropropane	mg/kg (ppm)	2.5	99	64-151
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	100	77-110
Chloroform	mg/kg (ppm)	2.5	100	78-108
2-Butanone (MEK)	mg/kg (ppm)	12.5	106	60-121
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	99	80-109
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	105	72-116
1,1-Dichloropropene	mg/kg (ppm)	2.5	99	77-108
Carbon tetrachloride	mg/kg (ppm)	2.5	116	67-123
Benzene	mg/kg (ppm)	2.5	95	75-107
Trichloroethene	mg/kg (ppm)	2.5	99	72-107
1,2-Dichloropropane	mg/kg (ppm)	2.5	102	78-111
Bromodichloromethane	mg/kg (ppm)	2.5	115	75-126
Dibromomethane	mg/kg (ppm)	2.5	101	80-111
4-Methyl-2-pentanone	mg/kg (ppm)	12.5	110	80-128
cis-1,3-Dichloropropene	mg/kg (ppm)	2.5	116	71-138
Toluene	mg/kg (ppm)	2.5	98	79-112
trans-1,3-Dichloropropene	mg/kg (ppm)	2.5	112	77-135
1,1,2-Trichloroethane	mg/kg (ppm)	2.5	104	84-115
2-Hexanone	mg/kg (ppm)	12.5	107	71-129
1,3-Dichloropropane	mg/kg (ppm)	2.5	103	82-113
Tetrachloroethene	mg/kg (ppm)	2.5	98	77-110
Dibromochloromethane	mg/kg (ppm)	2.5	117	64-152
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2.5	114	83-116
Chlorobenzene	mg/kg (ppm)	2.5	100	82-113
Ethylbenzene	mg/kg (ppm)	2.5	101	81-114
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	2.5	117	76-125
m,p-Xylene	mg/kg (ppm)	5	101	82-115
o-Xylene	mg/kg (ppm)	2.5	101	81-116
Styrene	mg/kg (ppm)	2.5	105	81-118
Isopropylbenzene	mg/kg (ppm)	2.5	104	81-117
Bromoform	mg/kg (ppm)	2.5	125	50-174
n-Propylbenzene	mg/kg (ppm)	2.5	105	82-116
Bromobenzene	mg/kg (ppm)	2.5	102	82-118
1,3,5-Trimethylbenzene	mg/kg (ppm)	2.5	105	83-120
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	2.5	110	83-125
1,2,3-Trichloropropane	mg/kg (ppm)	2.5	105	79-116
2-Chlorotoluene	mg/kg (ppm)	2.5	100	80-114
4-Chlorotoluene	mg/kg (ppm)	2.5	102	82-114
tert-Butylbenzene	mg/kg (ppm)	2.5	105	82-116
1,2,4-Trimethylbenzene	mg/kg (ppm)	2.5	105	82-116
sec-Butylbenzene	mg/kg (ppm)	2.5	105	81-123
p-Isopropyltoluene	mg/kg (ppm)	2.5	106	82-124
1,3-Dichlorobenzene	mg/kg (ppm)	2.5	100	80-118
1,4-Dichlorobenzene	mg/kg (ppm)	2.5	98	79-117
1,2-Dichlorobenzene	mg/kg (ppm)	2.5	99	80-118
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	2.5	118	71-131
1,2,4-Trichlorobenzene	mg/kg (ppm)	2.5	101	75-122
Hexachlorobutadiene	mg/kg (ppm)	2.5	94	74-130
Naphthalene	mg/kg (ppm)	2.5	105	83-128
1,2,3-Trichlorobenzene	mg/kg (ppm)	2.5	96	80-126

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 306147-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	mg/kg (ppm)	2.5	<0.02	21	19	10-56	10
Chloromethane	mg/kg (ppm)	2.5	<0.026	48	47	10-90	2
Vinyl chloride	mg/kg (ppm)	2.5	<0.016	51	49	10-91	4
Bromomethane	mg/kg (ppm)	2.5	<0.034	81	60	10-110	30 vo
Chloroethane	mg/kg (ppm)	2.5	<0.024	73	70	10-101	4
Trichlorofluoromethane	mg/kg (ppm)	2.5	<0.02	65	65	10-95	0
Acetone	mg/kg (ppm)	12.5	<0.2	82	84	11-141	2
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.026	81	80	11-103	1
Methylene chloride	mg/kg (ppm)	2.5	<0.054	92	91	14-128	1
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2.5	<0.013	91	91	17-134	0
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.024	89	89	13-112	0
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.017	91	91	23-115	0
2,2-Dichloropropane	mg/kg (ppm)	2.5	<0.026	88	93	18-117	6
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.022	90	90	25-120	0
Chloroform	mg/kg (ppm)	2.5	<0.017	94	95	29-117	1
2-Butanone (MEK)	mg/kg (ppm)	12.5	<0.14	99	96	20-133	3
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.016	94	93	22-124	1
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.022	93	98	27-112	5
1,1-Dichloropropene	mg/kg (ppm)	2.5	<0.024	89	91	26-107	2
Carbon tetrachloride	mg/kg (ppm)	2.5	<0.03	98	104	22-115	6
Benzene	mg/kg (ppm)	2.5	<0.014	90	90	26-114	0
Trichloroethene	mg/kg (ppm)	2.5	<0.034	94	96	30-112	2
1,2-Dichloropropane	mg/kg (ppm)	2.5	<0.034	98	98	31-119	0
Bromodichloromethane	mg/kg (ppm)	2.5	<0.024	100	104	31-131	4
Dibromomethane	mg/kg (ppm)	2.5	<0.022	95	95	27-124	0
4-Methyl-2-pentanone	mg/kg (ppm)	12.5	<0.14	102	101	16-147	1
cis-1,3-Dichloropropene	mg/kg (ppm)	2.5	<0.022	95	97	28-137	2
Toluene	mg/kg (ppm)	2.5	<0.017	91	91	34-112	0
trans-1,3-Dichloropropene	mg/kg (ppm)	2.5	<0.015	99	102	30-136	3
1,1,2-Trichloroethane	mg/kg (ppm)	2.5	<0.014	98	98	32-126	0
2-Hexanone	mg/kg (ppm)	12.5	<0.096	102	100	17-147	2
1,3-Dichloropropane	mg/kg (ppm)	2.5	<0.02	93	93	29-125	0
Tetrachloroethene	mg/kg (ppm)	2.5	<0.026	97	100	27-110	3
Dibromochloromethane	mg/kg (ppm)	2.5	<0.026	101	106	32-143	5
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2.5	<0.03	100	101	32-126	1
Chlorobenzene	mg/kg (ppm)	2.5	<0.014	94	95	37-113	1
Ethylbenzene	mg/kg (ppm)	2.5	<0.013	93	96	38-111	3
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	2.5	<0.028	98	105	35-126	7
m,p-Xylene	mg/kg (ppm)	5	<0.03	93	96	38-112	3
o-Xylene	mg/kg (ppm)	2.5	<0.034	96	98	38-113	2
Styrene	mg/kg (ppm)	2.5	<0.022	96	99	38-118	3
Isopropylbenzene	mg/kg (ppm)	2.5	<0.019	94	98	37-114	4
Bromoform	mg/kg (ppm)	2.5	<0.034	102	108	18-155	6
n-Propylbenzene	mg/kg (ppm)	2.5	<0.017	94	99	36-114	5
Bromobenzene	mg/kg (ppm)	2.5	<0.012	93	97	40-115	4
1,3,5-Trimethylbenzene	mg/kg (ppm)	2.5	<0.011	95	102	35-116	7
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	2.5	<0.036	99	100	33-128	1
1,2,3-Trichloropropane	mg/kg (ppm)	2.5	<0.022	94	95	33-123	1
2-Chlorotoluene	mg/kg (ppm)	2.5	<0.016	91	95	39-110	4
4-Chlorotoluene	mg/kg (ppm)	2.5	<0.019	91	95	39-111	4
tert-Butylbenzene	mg/kg (ppm)	2.5	<0.022	94	100	36-116	6
1,2,4-Trimethylbenzene	mg/kg (ppm)	2.5	<0.016	94	99	35-116	5
sec-Butylbenzene	mg/kg (ppm)	2.5	<0.015	94	100	33-118	6
p-Isopropyltoluene	mg/kg (ppm)	2.5	<0.012	93	100	32-119	7
1,3-Dichlorobenzene	mg/kg (ppm)	2.5	<0.02	93	98	38-111	5
1,4-Dichlorobenzene	mg/kg (ppm)	2.5	<0.032	90	94	39-109	4
1,2-Dichlorobenzene	mg/kg (ppm)	2.5	<0.016	93	97	40-111	4
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	2.5	<0.08	97	104	34-134	7
1,2,4-Trichlorobenzene	mg/kg (ppm)	2.5	<0.036	85	93	31-117	9
Hexachlorobutadiene	mg/kg (ppm)	2.5	<0.04	83	95	25-122	13
Naphthalene	mg/kg (ppm)	2.5	<0.024	91	97	39-120	6
1,2,3-Trichlorobenzene	mg/kg (ppm)	2.5	<0.019	86	92	35-117	7

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	mg/kg (ppm)	2.5	23	34	10-76	39 vo
Chloromethane	mg/kg (ppm)	2.5	45	55	34-98	20
Vinyl chloride	mg/kg (ppm)	2.5	51	60	42-107	16
Bromomethane	mg/kg (ppm)	2.5	77	50	46-113	43 vo
Chloroethane	mg/kg (ppm)	2.5	67	69	47-115	3
Trichlorofluoromethane	mg/kg (ppm)	2.5	64	73	53-112	13
Acetone	mg/kg (ppm)	12.5	77	79	39-147	3
1,1-Dichloroethene	mg/kg (ppm)	2.5	81	79	65-110	2
Methylene chloride	mg/kg (ppm)	2.5	88	88	62-119	0
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2.5	86	86	72-122	0
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	88	89	71-113	1
1,1-Dichloroethane	mg/kg (ppm)	2.5	88	89	76-109	1
2,2-Dichloropropane	mg/kg (ppm)	2.5	87	89	64-151	2
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	87	88	77-110	1
Chloroform	mg/kg (ppm)	2.5	91	92	78-108	1
2-Butanone (MEK)	mg/kg (ppm)	12.5	94	93	60-121	1
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	89	89	80-109	0
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	95	96	72-116	1
1,1-Dichloropropene	mg/kg (ppm)	2.5	89	90	77-108	1
Carbon tetrachloride	mg/kg (ppm)	2.5	105	107	67-123	2
Benzene	mg/kg (ppm)	2.5	87	88	75-107	1
Trichloroethene	mg/kg (ppm)	2.5	90	90	72-107	0
1,2-Dichloropropane	mg/kg (ppm)	2.5	96	95	78-111	1
Bromodichloromethane	mg/kg (ppm)	2.5	103	103	75-126	0
Dibromomethane	mg/kg (ppm)	2.5	92	91	80-111	1
4-Methyl-2-pentanone	mg/kg (ppm)	12.5	97	95	80-128	2
cis-1,3-Dichloropropene	mg/kg (ppm)	2.5	98	98	71-138	0
Toluene	mg/kg (ppm)	2.5	88	88	79-112	0
trans-1,3-Dichloropropene	mg/kg (ppm)	2.5	105	103	77-135	2
1,1,2-Trichloroethane	mg/kg (ppm)	2.5	94	94	84-115	0
2-Hexanone	mg/kg (ppm)	12.5	98	96	71-129	2
1,3-Dichloropropane	mg/kg (ppm)	2.5	90	89	82-113	1
Tetrachloroethene	mg/kg (ppm)	2.5	95	96	77-110	1
Dibromochloromethane	mg/kg (ppm)	2.5	107	106	64-152	1
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2.5	101	100	83-116	1
Chlorobenzene	mg/kg (ppm)	2.5	92	90	82-113	2
Ethylbenzene	mg/kg (ppm)	2.5	92	91	81-114	1
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	2.5	104	104	76-125	0
m,p-Xylene	mg/kg (ppm)	5	91	91	82-115	0
o-Xylene	mg/kg (ppm)	2.5	93	93	81-116	0
Styrene	mg/kg (ppm)	2.5	94	94	81-118	0
Isopropylbenzene	mg/kg (ppm)	2.5	92	93	81-117	1
Bromoform	mg/kg (ppm)	2.5	110	109	50-174	1
n-Propylbenzene	mg/kg (ppm)	2.5	95	93	82-116	2
Bromobenzene	mg/kg (ppm)	2.5	92	91	82-118	1
1,3,5-Trimethylbenzene	mg/kg (ppm)	2.5	96	95	83-120	1
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	2.5	99	96	83-125	3
1,2,3-Trichloropropane	mg/kg (ppm)	2.5	93	89	79-116	4
2-Chlorotoluene	mg/kg (ppm)	2.5	92	90	80-114	2
4-Chlorotoluene	mg/kg (ppm)	2.5	92	91	82-114	1
tert-Butylbenzene	mg/kg (ppm)	2.5	93	93	82-116	0
1,2,4-Trimethylbenzene	mg/kg (ppm)	2.5	94	93	82-116	1
sec-Butylbenzene	mg/kg (ppm)	2.5	94	94	81-123	0
p-Isopropyltoluene	mg/kg (ppm)	2.5	95	94	82-124	1
1,3-Dichlorobenzene	mg/kg (ppm)	2.5	94	92	80-118	2
1,4-Dichlorobenzene	mg/kg (ppm)	2.5	90	89	79-117	1
1,2-Dichlorobenzene	mg/kg (ppm)	2.5	93	91	80-118	2
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	2.5	105	103	71-131	2
1,2,4-Trichlorobenzene	mg/kg (ppm)	2.5	88	86	75-122	2
Hexachlorobutadiene	mg/kg (ppm)	2.5	89	88	74-130	1
Naphthalene	mg/kg (ppm)	2.5	91	91	83-128	0
1,2,3-Trichlorobenzene	mg/kg (ppm)	2.5	87	87	80-126	0

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 306247-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Dichlorodifluoromethane	ug/L (ppb)	50	<0.16	105	55-144
Chloromethane	ug/L (ppb)	50	<0.22	104	67-131
Vinyl chloride	ug/L (ppb)	50	0.52	106	61-139
Bromomethane	ug/L (ppb)	50	<0.2	635 vo	66-129
Chloroethane	ug/L (ppb)	50	<0.18	191 vo	68-126
Trichlorofluoromethane	ug/L (ppb)	50	<0.17	136 vo	71-128
Acetone	ug/L (ppb)	250	<2.6	109	48-149
1,1-Dichloroethene	ug/L (ppb)	50	<0.19	105	71-123
Methylene chloride	ug/L (ppb)	50	<3	101	61-126
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	<0.13	106	68-125
trans-1,2-Dichloroethene	ug/L (ppb)	50	<0.24	104	72-122
1,1-Dichloroethane	ug/L (ppb)	50	<0.18	103	79-113
2,2-Dichloropropane	ug/L (ppb)	50	<0.3	119	58-132
cis-1,2-Dichloroethene	ug/L (ppb)	50	3.6	102	73-119
Chloroform	ug/L (ppb)	50	<0.24	100	80-112
2-Butanone (MEK)	ug/L (ppb)	250	<0.94	105	69-123
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<0.11	100	78-113
1,1,1-Trichloroethane	ug/L (ppb)	50	<0.2	113	79-116
1,1-Dichloropropene	ug/L (ppb)	50	<0.26	99	67-121
Carbon tetrachloride	ug/L (ppb)	50	<0.24	128 vo	72-123
Benzene	ug/L (ppb)	50	<0.13	98	79-109
Trichloroethene	ug/L (ppb)	50	1.4	100	75-109
1,2-Dichloropropane	ug/L (ppb)	50	<0.32	101	80-111
Bromodichloromethane	ug/L (ppb)	50	<0.38	116	78-117
Dibromomethane	ug/L (ppb)	50	<0.28	106	80-112
4-Methyl-2-pentanone	ug/L (ppb)	250	<1.3	111	79-123
cis-1,3-Dichloropropene	ug/L (ppb)	50	<0.2	116	76-120
Toluene	ug/L (ppb)	50	<0.13	96	73-117
trans-1,3-Dichloropropene	ug/L (ppb)	50	<0.34	105	75-122
1,1,2-Trichloroethane	ug/L (ppb)	50	<0.28	102	81-111
2-Hexanone	ug/L (ppb)	250	<1	111	75-126
1,3-Dichloropropane	ug/L (ppb)	50	<0.2	100	81-111
Tetrachloroethene	ug/L (ppb)	50	<0.28	97	72-113
Dibromochloromethane	ug/L (ppb)	50	<0.24	113	69-129
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	<0.24	124 vo	83-114
Chlorobenzene	ug/L (ppb)	50	<0.1	98	75-115
Ethylbenzene	ug/L (ppb)	50	<0.16	98	71-120
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	<0.32	128 vo	78-122
m,p-Xylene	ug/L (ppb)	100	<0.5	100	63-128
o-Xylene	ug/L (ppb)	50	<0.22	100	64-129
Styrene	ug/L (ppb)	50	<0.22	101	70-122
Isopropylbenzene	ug/L (ppb)	50	<0.15	101	76-118
Bromoform	ug/L (ppb)	50	<0.22	117	49-138
n-Propylbenzene	ug/L (ppb)	50	<0.14	99	74-117
Bromobenzene	ug/L (ppb)	50	<0.18	98	70-121
1,3,5-Trimethylbenzene	ug/L (ppb)	50	<0.18	102	81-112
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	<0.24	109	79-120
1,2,3-Trichloropropane	ug/L (ppb)	50	<0.28	101	72-119
2-Chlorotoluene	ug/L (ppb)	50	<0.13	97	77-114
4-Chlorotoluene	ug/L (ppb)	50	<0.16	98	81-109
tert-Butylbenzene	ug/L (ppb)	50	<0.15	101	81-116
1,2,4-Trimethylbenzene	ug/L (ppb)	50	<0.11	101	74-118
sec-Butylbenzene	ug/L (ppb)	50	<0.12	101	77-118
p-Isopropyltoluene	ug/L (ppb)	50	<0.15	101	64-132
1,3-Dichlorobenzene	ug/L (ppb)	50	<0.15	97	81-111
1,4-Dichlorobenzene	ug/L (ppb)	50	<0.094	97	78-110
1,2-Dichlorobenzene	ug/L (ppb)	50	<0.13	97	81-111
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	<0.44	112	69-129
1,2,4-Trichlorobenzene	ug/L (ppb)	50	<0.34	94	74-115
Hexachlorobutadiene	ug/L (ppb)	50	<0.46	89	67-120
Naphthalene	ug/L (ppb)	50	<0.28	102	63-136
1,2,3-Trichlorobenzene	ug/L (ppb)	50	<0.38	90	79-115

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	ug/L (ppb)	50	100	104	54-149	4
Chloromethane	ug/L (ppb)	50	97	102	67-133	5
Vinyl chloride	ug/L (ppb)	50	98	103	73-132	5
Bromomethane	ug/L (ppb)	50	604 vo	614 vo	69-123	2
Chloroethane	ug/L (ppb)	50	175 vo	186 vo	68-126	6
Trichlorofluoromethane	ug/L (ppb)	50	123	132	70-132	7
Acetone	ug/L (ppb)	250	102	110	44-145	8
1,1-Dichloroethene	ug/L (ppb)	50	100	106	75-119	6
Methylene chloride	ug/L (ppb)	50	98	104	63-132	6
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	91	98	70-122	7
trans-1,2-Dichloroethene	ug/L (ppb)	50	98	104	76-118	6
1,1-Dichloroethane	ug/L (ppb)	50	96	102	80-116	6
2,2-Dichloropropane	ug/L (ppb)	50	111	125	62-141	12
cis-1,2-Dichloroethene	ug/L (ppb)	50	95	100	81-111	5
Chloroform	ug/L (ppb)	50	118 vo	124 vo	81-109	5
2-Butanone (MEK)	ug/L (ppb)	250	98	101	53-140	3
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	93	98	79-109	5
1,1,1-Trichloroethane	ug/L (ppb)	50	106	113	80-116	6
1,1-Dichloropropene	ug/L (ppb)	50	94	99	78-112	5
Carbon tetrachloride	ug/L (ppb)	50	128	136 vo	72-128	6
Benzene	ug/L (ppb)	50	93	96	81-108	3
Trichloroethene	ug/L (ppb)	50	94	99	77-108	5
1,2-Dichloropropane	ug/L (ppb)	50	96	101	82-109	5
Bromodichloromethane	ug/L (ppb)	50	116	121 vo	76-120	4
Dibromomethane	ug/L (ppb)	50	100	105	80-110	5
4-Methyl-2-pentanone	ug/L (ppb)	250	104	110	59-142	6
cis-1,3-Dichloropropene	ug/L (ppb)	50	113	120	76-128	6
Toluene	ug/L (ppb)	50	92	96	83-108	4
trans-1,3-Dichloropropene	ug/L (ppb)	50	104	108	76-128	4
1,1,2-Trichloroethane	ug/L (ppb)	50	97	101	82-110	4
2-Hexanone	ug/L (ppb)	250	99	105	53-145	6
1,3-Dichloropropane	ug/L (ppb)	50	94	99	83-110	5
Tetrachloroethene	ug/L (ppb)	50	91	94	78-109	3
Dibromochloromethane	ug/L (ppb)	50	118	123	63-140	4
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	118 vo	124 vo	85-113	5
Chlorobenzene	ug/L (ppb)	50	92	96	84-108	4
Ethylbenzene	ug/L (ppb)	50	93	97	84-110	4
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	128 vo	135 vo	76-125	5
m,p-Xylene	ug/L (ppb)	100	95	99	84-112	4
o-Xylene	ug/L (ppb)	50	94	100	82-113	6
Styrene	ug/L (ppb)	50	96	101	84-116	5
Isopropylbenzene	ug/L (ppb)	50	95	100	81-122	5
Bromoform	ug/L (ppb)	50	127	130	40-161	2
n-Propylbenzene	ug/L (ppb)	50	95	99	81-115	4
Bromobenzene	ug/L (ppb)	50	93	96	80-113	3
1,3,5-Trimethylbenzene	ug/L (ppb)	50	97	102	83-117	5
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	105	110	79-118	5
1,2,3-Trichloropropane	ug/L (ppb)	50	96	100	74-116	4
2-Chlorotoluene	ug/L (ppb)	50	94	97	79-112	3
4-Chlorotoluene	ug/L (ppb)	50	94	98	81-113	4
tert-Butylbenzene	ug/L (ppb)	50	97	101	81-119	4
1,2,4-Trimethylbenzene	ug/L (ppb)	50	96	100	83-116	4
sec-Butylbenzene	ug/L (ppb)	50	97	102	83-116	5
p-Isopropyltoluene	ug/L (ppb)	50	98	102	82-119	4
1,3-Dichlorobenzene	ug/L (ppb)	50	92	97	83-111	5
1,4-Dichlorobenzene	ug/L (ppb)	50	92	95	82-109	3
1,2-Dichlorobenzene	ug/L (ppb)	50	92	96	83-111	4
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	124	125	62-133	1
1,2,4-Trichlorobenzene	ug/L (ppb)	50	93	95	77-117	2
Hexachlorobutadiene	ug/L (ppb)	50	89	95	74-118	7
Naphthalene	ug/L (ppb)	50	98	102	75-131	4
1,2,3-Trichlorobenzene	ug/L (ppb)	50	91	94	82-115	3

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270D

Laboratory Code: 306147-29 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Phenol	mg/kg (ppm)	1.7	78	90	50-150	14
Bis(2-chloroethyl) ether	mg/kg (ppm)	1.7	76	90	50-150	17
2-Chlorophenol	mg/kg (ppm)	1.7	79	93	50-150	16
1,3-Dichlorobenzene	mg/kg (ppm)	1.7	73	81	50-150	10
1,4-Dichlorobenzene	mg/kg (ppm)	1.7	76	79	50-150	4
1,2-Dichlorobenzene	mg/kg (ppm)	1.7	76	83	50-150	9
Benzyl alcohol	mg/kg (ppm)	1.7	87	117	50-150	29 vo
Bis(2-chloroisopropyl) ether	mg/kg (ppm)	1.7	70	82	50-150	16
2-Methylphenol	mg/kg (ppm)	1.7	76	91	50-150	18
Hexachloroethane	mg/kg (ppm)	1.7	70	81	50-150	15
N-Nitroso-di-n-propylamine	mg/kg (ppm)	1.7	76	96	50-150	23 vo
3-Methylphenol + 4-Methylphenol	mg/kg (ppm)	1.7	76	93	50-150	20
Nitrobenzene	mg/kg (ppm)	1.7	79	88 J	50-150	11
Isophorone	mg/kg (ppm)	1.7	83	91 J	50-150	9
2-Nitrophenol	mg/kg (ppm)	1.7	84	100 J	50-150	17
2,4-Dimethylphenol	mg/kg (ppm)	1.7	70	75 J	50-150	7
Benzoic acid	mg/kg (ppm)	2.5	69	102 J	50-150	39 vo
Bis(2-chloroethoxy)methane	mg/kg (ppm)	1.7	82	86 J	50-150	5
2,4-Dichlorophenol	mg/kg (ppm)	1.7	85	98 J	50-150	14
1,2,4-Trichlorobenzene	mg/kg (ppm)	1.7	82	87 J	50-150	6
Hexachlorobutadiene	mg/kg (ppm)	1.7	83	84 J	50-150	1
4-Chloroaniline	mg/kg (ppm)	3.3	67	72 J	50-150	7
4-Chloro-3-methylphenol	mg/kg (ppm)	1.7	85	102 J	50-150	18
2-Methylnaphthalene	mg/kg (ppm)	1.7	79	89 J	50-150	12
Hexachlorocyclopentadiene	mg/kg (ppm)	1.7	53	84 J	50-150	45 vo
2,4,6-Trichlorophenol	mg/kg (ppm)	1.7	86	98 J	50-150	13
2,4,5-Trichlorophenol	mg/kg (ppm)	1.7	91	99 J	50-150	8
2-Chloronaphthalene	mg/kg (ppm)	1.7	86	92 J	50-150	7
2-Nitroaniline	mg/kg (ppm)	1.7	85	100 J	50-150	16
Dimethyl phthalate	mg/kg (ppm)	1.7	90	96 J	50-150	6
2,6-Dinitrotoluene	mg/kg (ppm)	1.7	94	104 J	50-150	10
3-Nitroaniline	mg/kg (ppm)	3.3	72	76 J	50-150	5
2,4-Dinitrophenol	mg/kg (ppm)	1.7	48 vo	117 J	50-150	84 vo
Dibenzofuran	mg/kg (ppm)	1.7	88	94 J	50-150	7
2,4-Dinitrotoluene	mg/kg (ppm)	1.7	86	98 J	50-150	13
4-Nitrophenol	mg/kg (ppm)	1.7	83	109 J	50-150	27 vo
Diethyl phthalate	mg/kg (ppm)	1.7	90	96 J	50-150	6
4-Chlorophenyl phenyl ether	mg/kg (ppm)	1.7	86	92 J	50-150	7
N-Nitrosodiphenylamine	mg/kg (ppm)	1.7	88	88 J	50-150	0
4-Nitroaniline	mg/kg (ppm)	3.3	77	81 J	50-150	5
4,6-Dinitro-2-methylphenol	mg/kg (ppm)	1.7	61	114J	50-150	61 vo
4-Bromophenyl phenyl ether	mg/kg (ppm)	1.7	89	93 J	50-150	4
Hexachlorobenzene	mg/kg (ppm)	1.7	89	92 J	50-150	3
Pentachlorophenol	mg/kg (ppm)	1.7	88	107 J	50-150	19
Carbazole	mg/kg (ppm)	1.7	86	89 J	50-150	3
Di-n-butyl phthalate	mg/kg (ppm)	1.7	92	91 J	50-150	1
Benzyl butyl phthalate	mg/kg (ppm)	1.7	101	107 J	50-150	6
Bis(2-ethylhexyl) phthalate	mg/kg (ppm)	1.7	99	101 J	50-150	2
Di-n-octyl phthalate	mg/kg (ppm)	1.7	111	103 J	50-150	7

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270 D

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Phenol	mg/kg (ppm)	1.7	87	91	51-119	4
Bis(2-chloroethyl) ether	mg/kg (ppm)	1.7	92	85	60-112	8
2-Chlorophenol	mg/kg (ppm)	1.7	90	93	59-114	3
1,3-Dichlorobenzene	mg/kg (ppm)	1.7	90	91	62-113	1
1,4-Dichlorobenzene	mg/kg (ppm)	1.7	91	90	61-114	1
1,2-Dichlorobenzene	mg/kg (ppm)	1.7	91	92	61-113	1
Benzyl alcohol	mg/kg (ppm)	1.7	92	96	50-119	4
Bis(2-chloroisopropyl) ether	mg/kg (ppm)	1.7	85	85	59-113	0
2-Methylphenol	mg/kg (ppm)	1.7	85	92	58-115	8
Hexachloroethane	mg/kg (ppm)	1.7	91	90	63-114	1
N-Nitroso-di-n-propylamine	mg/kg (ppm)	1.7	91	96	62-114	5
3-Methylphenol + 4-Methylphenol	mg/kg (ppm)	1.7	86	94	54-120	9
Nitrobenzene	mg/kg (ppm)	1.7	93	94	59-114	1
Isophorone	mg/kg (ppm)	1.7	94	97	61-113	3
2-Nitrophenol	mg/kg (ppm)	1.7	99	101	59-114	2
2,4-Dimethylphenol	mg/kg (ppm)	1.7	75	85	54-107	12
Benzoic acid	mg/kg (ppm)	2.5	109	116	43-150	6
Bis(2-chloroethoxy)methane	mg/kg (ppm)	1.7	92	95	60-114	3
2,4-Dichlorophenol	mg/kg (ppm)	1.7	91	95	57-118	4
1,2,4-Trichlorobenzene	mg/kg (ppm)	1.7	93	95	56-112	2
Hexachlorobutadiene	mg/kg (ppm)	1.7	95	93	60-116	2
4-Chloroaniline	mg/kg (ppm)	3.3	56	44	10-126	24 vo
4-Chloro-3-methylphenol	mg/kg (ppm)	1.7	88	95	59-115	8
2-Methylnaphthalene	mg/kg (ppm)	1.7	88	91	60-115	3
Hexachlorocyclopentadiene	mg/kg (ppm)	1.7	97	95	41-107	2
2,4,6-Trichlorophenol	mg/kg (ppm)	1.7	92	96	47-119	4
2,4,5-Trichlorophenol	mg/kg (ppm)	1.7	93	99	61-121	6
2-Chloronaphthalene	mg/kg (ppm)	1.7	94	96	58-114	2
2-Nitroaniline	mg/kg (ppm)	1.7	92	97	55-119	5
Dimethyl phthalate	mg/kg (ppm)	1.7	96	98	58-116	2
2,6-Dinitrotoluene	mg/kg (ppm)	1.7	100	104	57-119	4
3-Nitroaniline	mg/kg (ppm)	3.3	85	92	10-143	8
2,4-Dinitrophenol	mg/kg (ppm)	1.7	73	79	40-122	8
Dibenzofuran	mg/kg (ppm)	1.7	94	99	56-115	5
2,4-Dinitrotoluene	mg/kg (ppm)	1.7	89	94	53-126	5
4-Nitrophenol	mg/kg (ppm)	1.7	94	102	40-124	8
Diethyl phthalate	mg/kg (ppm)	1.7	99	97	57-116	2
4-Chlorophenyl phenyl ether	mg/kg (ppm)	1.7	93	94	54-119	1
N-Nitrosodiphenylamine	mg/kg (ppm)	1.7	92	95	54-113	3
4-Nitroaniline	mg/kg (ppm)	3.3	93	97	47-109	4
4,6-Dinitro-2-methylphenol	mg/kg (ppm)	1.7	83	90	57-108	8
4-Bromophenyl phenyl ether	mg/kg (ppm)	1.7	97	98	56-116	1
Hexachlorobenzene	mg/kg (ppm)	1.7	95	98	57-115	3
Pentachlorophenol	mg/kg (ppm)	1.7	92	94	45-123	2
Carbazole	mg/kg (ppm)	1.7	95	98	57-116	3
Di-n-butyl phthalate	mg/kg (ppm)	1.7	100	102	56-118	2
Benzyl butyl phthalate	mg/kg (ppm)	1.7	102	101	56-122	1
Bis(2-ethylhexyl) phthalate	mg/kg (ppm)	1.7	93	99	56-125	6
Di-n-octyl phthalate	mg/kg (ppm)	1.7	97	104	58-120	7

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270D

Laboratory Code: 306269-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
2-Methylphenol	mg/kg (ppm)	1.7	<0.3	65	46 vo	50-150	34 vo
Bis(2-ethylhexyl) phthalate	mg/kg (ppm)	1.7	<0.48	86	81	50-150	6

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270D

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
2-Methylphenol	mg/kg (ppm)	1.7	85	82	58-115	4
Bis(2-ethylhexyl) phthalate	mg/kg (ppm)	1.7	93	96	56-125	3

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR PNA'S BY EPA METHOD 8270D SIM

Laboratory Code: 306147-25 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.17	<0.00022	43 vo	49	44-129	13
Acenaphthylene	mg/kg (ppm)	0.17	<0.000091	62	67	52-121	8
Acenaphthene	mg/kg (ppm)	0.17	<0.00014	61	66	51-123	8
Fluorene	mg/kg (ppm)	0.17	<0.00015	70	75	37-137	7
Phenanthrene	mg/kg (ppm)	0.17	0.00061	73	77	45-124	5
Anthracene	mg/kg (ppm)	0.17	<0.000088	66	72	32-124	9
Fluoranthene	mg/kg (ppm)	0.17	<0.00028	75	81	50-125	8
Pyrene	mg/kg (ppm)	0.17	0.00032	76	82	41-135	8
Benz(a)anthracene	mg/kg (ppm)	0.17	<0.00018	70	77	23-144	10
Chrysene	mg/kg (ppm)	0.17	<0.00019	71	80	45-122	12
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	0.00018	74	82	31-144	10
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	<0.00036	75	84	45-130	11
Benzo(a)pyrene	mg/kg (ppm)	0.17	<0.00022	65	74	39-128	13
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	<0.00062	68	77	28-146	12
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	<0.00034	65	74	46-129	13
Benzo(g,h,i)perylene	mg/kg (ppm)	0.17	<0.00034	68	77	37-133	12

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.17	81	86	58-121	6
Acenaphthylene	mg/kg (ppm)	0.17	89	91	54-121	2
Acenaphthene	mg/kg (ppm)	0.17	86	89	54-123	3
Fluorene	mg/kg (ppm)	0.17	91	91	56-127	0
Phenanthrene	mg/kg (ppm)	0.17	89	91	55-122	2
Anthracene	mg/kg (ppm)	0.17	85	87	50-120	2
Fluoranthene	mg/kg (ppm)	0.17	93	94	54-129	1
Pyrene	mg/kg (ppm)	0.17	93	97	53-127	4
Benz(a)anthracene	mg/kg (ppm)	0.17	92	94	51-115	2
Chrysene	mg/kg (ppm)	0.17	94	95	55-129	1
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	97	101	56-123	4
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	94	96	54-131	2
Benzo(a)pyrene	mg/kg (ppm)	0.17	88	90	51-118	2
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	98	99	49-148	1
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	92	93	50-141	1
Benzo(g,h,i)perylene	mg/kg (ppm)	0.17	92	94	52-131	2

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR PNA'S BY EPA METHOD 8270D SIM

Laboratory Code: 306269-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.17	<0.00022	48	68	44-129	34 vo
Acenaphthylene	mg/kg (ppm)	0.17	<0.000091	66	76	52-121	14
Acenaphthene	mg/kg (ppm)	0.17	<0.00014	64	75	51-123	16
Fluorene	mg/kg (ppm)	0.17	<0.00015	74	82	37-137	10
Phenanthrene	mg/kg (ppm)	0.17	<0.00032	70	75	45-124	7
Anthracene	mg/kg (ppm)	0.17	<0.000088	71	76	32-124	7
Fluoranthene	mg/kg (ppm)	0.17	0.00028	72	77	50-125	7
Pyrene	mg/kg (ppm)	0.17	0.00032	77	83	41-135	7
Benz(a)anthracene	mg/kg (ppm)	0.17	0.00025	70	74	23-144	6
Chrysene	mg/kg (ppm)	0.17	0.00025	73	80	45-122	9
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	0.00036	65	71	31-144	9
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	<0.00036	65	73	45-130	12
Benzo(a)pyrene	mg/kg (ppm)	0.17	0.00025	59	66	39-128	11
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	<0.00062	65	67	28-146	3
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	<0.00034	61	67	46-129	9
Benzo(g,h,i)perylene	mg/kg (ppm)	0.17	<0.00034	61	62	37-133	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.17	74	76	58-121	3
Acenaphthylene	mg/kg (ppm)	0.17	78	87	54-121	11
Acenaphthene	mg/kg (ppm)	0.17	76	86	54-123	12
Fluorene	mg/kg (ppm)	0.17	75	91	56-127	19
Phenanthrene	mg/kg (ppm)	0.17	84	88	55-122	5
Anthracene	mg/kg (ppm)	0.17	81	86	50-120	6
Fluoranthene	mg/kg (ppm)	0.17	80	97	54-129	19
Pyrene	mg/kg (ppm)	0.17	97	96	53-127	1
Benz(a)anthracene	mg/kg (ppm)	0.17	82	89	51-115	8
Chrysene	mg/kg (ppm)	0.17	92	94	55-129	2
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	83	90	56-123	8
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	81	81	54-131	0
Benzo(a)pyrene	mg/kg (ppm)	0.17	68	74	51-118	8
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	77	85	49-148	10
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	75	81	50-141	8
Benzo(g,h,i)perylene	mg/kg (ppm)	0.17	73	79	52-131	8

Date of Report: 07/19/13
Date Received: 06/10/13
Project: Crowley RIFS 101.00205.00019, F&BI 306147

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS AS AROCLOR 1016/1260 BY EPA METHOD 8082A

Laboratory Code: 306147-09 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Control Limits
Aroclor 1016	mg/kg (ppm)	0.8	<0.033	79	50-150
Aroclor 1260	mg/kg (ppm)	0.8	<0.033	93	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Aroclor 1016	mg/kg (ppm)	0.8	81	89	70-130	9
Aroclor 1260	mg/kg (ppm)	0.8	90	90	70-130	0

Date of Report: 07/19/13
Date Received: 06/10/13
Project: Crowley RIFS 101.00205.00019, F&BI 306147

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 306147-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Beryllium	mg/kg (ppm)	5	0.138	117	118	67-138	1
Chromium	mg/kg (ppm)	50	11.7	89 b	87 b	57-128	2 b
Nickel	mg/kg (ppm)	25	18.9	87 b	83 b	69-112	5 b
Copper	mg/kg (ppm)	50	15.7	78 b	74 b	57-120	5 b
Zinc	mg/kg (ppm)	50	22.1	117 b	87 b	55-129	29 b
Arsenic	mg/kg (ppm)	10	3.75	161 b	96 b	70-118	51 b
Selenium	mg/kg (ppm)	5	<0.91	99	96	64-117	3
Silver	mg/kg (ppm)	10	<0.079	103	100	73-122	3
Cadmium	mg/kg (ppm)	10	<0.20	106	104	83-116	2
Antimony	mg/kg (ppm)	20	0.702	118 vo	97	54-116	20
Barium	mg/kg (ppm)	50	38.0	90 b	86 b	60-141	5 b
Thallium	mg/kg (ppm)	5	0.071	100	97	68-121	3
Lead	mg/kg (ppm)	50	2.61	115	100	59-148	14

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Beryllium	mg/kg (ppm)	5	128	69-146
Chromium	mg/kg (ppm)	50	106	78-121
Nickel	mg/kg (ppm)	25	105	82-122
Copper	mg/kg (ppm)	50	100	82-119
Zinc	mg/kg (ppm)	50	106	81-120
Arsenic	mg/kg (ppm)	10	103	83-113
Selenium	mg/kg (ppm)	5	110	84-115
Silver	mg/kg (ppm)	10	103	81-116
Cadmium	mg/kg (ppm)	10	104	54-114
Antimony	mg/kg (ppm)	20	102	69-114
Barium	mg/kg (ppm)	50	102	85-116
Thallium	mg/kg (ppm)	5	102	77-123
Lead	mg/kg (ppm)	50	106	80-120

Date of Report: 07/19/13
Date Received: 06/10/13
Project: Crowley RIFS 101.00205.00019, F&BI 306147

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 306191-04 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/kg (ppm)	10	1.71	95	99	70-118	4
Silver	mg/kg (ppm)	10	<0.0784	99	100	73-122	1
Antimony	mg/kg (ppm)	20	0.125	92	92	54-116	0
Barium	mg/kg (ppm)	50	69.6	61 b	148 b	60-141	83 b
Lead	mg/kg (ppm)	50	2.01	100	103	59-148	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/kg (ppm)	10	98	83-113
Silver	mg/kg (ppm)	10	100	81-116
Antimony	mg/kg (ppm)	20	97	69-114
Barium	mg/kg (ppm)	50	100	85-116
Lead	mg/kg (ppm)	50	101	80-120

Date of Report: 07/19/13
Date Received: 06/10/13
Project: Crowley RIFS 101.00205.00019, F&BI 306147

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Laboratory Code: 306147-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Mercury	mg/kg (ppm)	0.125	0.020	93	91	62-140	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Mercury	mg/kg (ppm)	0.125	79	63-131

Date of Report: 07/19/13
Date Received: 06/10/13
Project: Crowley RIFS 101.00205.00019, F&BI 306147

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Laboratory Code: 306191-04 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Mercury	mg/kg (ppm)	0.125	0.014	97	99	62-140	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Mercury	mg/kg (ppm)	0.125	92	63-131

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

306147

SAMPLE CHAIN OF CUSTODY

KJ 06-10-13 V1/V54/ BIY

Page # 1 of 3

Send Report To Mike Staton

Company SCR International Corp

Address 22118 20th AVE SE, G203

City, State, ZIP Bothell, WA 98021

Phone # 425-402-8800 Fax # 425-702-8798

SAMPLERS (signature)

PROJECT NAME/NO.: Crowley RIFS 101.00205.00019

PO#: 101.00205.00019

REMARKS: NWTPH-Dx after silica gel cleanup; HOLD ALL for Crosstalk; email copy of COCs to Mikestaton

TURNAROUND TIME: ☒ Standard (2 Weeks) ☐ RUSH ____ Rush charges authorized by ____

SAMPLE DISPOSAL: ☒ Dispose after 30 days ☐ Return samples ☐ Will call with instructions

Mstaton@strcorpthq.com

⊗ = analyze per Mike Staton (cp 6/17/13)
✓ = analyze per KJ (cp 6/19/13)
* = extract & hold per M. Staton (cp 6/24/13)

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260C	SVOCs by 8270D	HFS	NWTPH-Dx	PAHs by 8270D SIM	PCBs by 8082A	Mercury by 7471B	Priority Pollutant Metals (13)	Cr VI by 7196A (Hold)	Notes
EB-28-1.0	01A-F	6/10/13	0915	Soil	6				X	X		X	X	X	X	X	X	
HOLD EB-28-2.5	02		0920															HOLD
EB-28-5.0	03		0925															
HOLD EB-28-7.5	04		0935															HOLD
EB-28-10.0	05		0945															~~HOLD~~ Analyze
HOLD EB-28-12.5	06		0940															HOLD
HOLD EB-28-15.0	07		0950										*	*				HOLD
HOLD EB-28-20.0	09		1000															HOLD
EB-45-1.0	09		1130															
HOLD EB-45-2.5	10		1140															HOLD

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Amanda Mengis	SCR	6/10/13	1440
Received by:	HONG NGUYEN	FBI	V	V
Relinquished by:				
Received by:		Samples received at 3 °C		

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FORMS\COC\COC.DOC

306147

SAMPLE CHAIN OF CUSTODY KJ 06-10-13 V1/V54/BDY

Page # 2 of 3

Send Report To Mike Stetson
Company SLR International Corp
Address 22118 20th Ave SE, G202
City, State, ZIP Bothell, WA 98021
Phone # 425-402-8800 Fax # 425-402-6468

SAMPLERS (signature)

PROJECT NAME/NO.: Crowley RIFS 101.00205.00019

PO#: 101.00205.00019

REMARKS
NWTPH-Dx after silica gel cleanup
HOLD All for Client
email copy of COC to mstetson@slrconsulting.com

TURNAROUND TIME
☒ Standard (2 Weeks)
☐ RUSH
Rush charges authorized by

SAMPLE DISPOSAL
☒ Dispose after 30 days
☐ Return samples
☐ Will call with instructions

	Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260C	SVOCs by 8270D	HFS	NWTPH-Dx	PAHs by 8270D SIM	PCBs by 8082A	Arsenic by 6020A	Perchlorate by 314.0	Cyanide (Total) by 9014	Notes
	EB-45-5.0	11 AF	6/10/13	1145	Soil	6				X	X		X	X	X	X	X	X	
OLD	EB-45-7.50	12		1150															HOLD
	EB-45-10.0	13		1155															~~HOLD~~ Analyze
OLD	EB-45-12.5	14		1200							✓			✓		✓	✓		~~HOLD~~ 6/11/13
	EB-40-1.0	15		1300															
OLD	EB-40-2.5	16		1305															HOLD
	EB-40-5.0	17		1310															
OLD	EB-40-7.5	18		1320															HOLD
	EB-40-10.0	19		1325															
OLD	EB-40-12.5	20	↓	1335	↓	↓													HOLD

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Amanda Meginot	SLR	6/10/13	1740
Received by:	HONG NGUYEN	FBI	↓	↓
Relinquished by:				3
Received by:		Samples received at ___ °C		

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

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306147

SAMPLE CHAIN OF CUSTODY

KJ 06-10-13 V1/VS4/BIY

Page # 3 of 3

Send Report To Mike Stanton
Company SLR International
Address 22118 20th AVE SE, G202
City, State, ZIP Bothell, WA 98021
Phone # 425-402-8800 Fax # 425-402-8561

SAMPLERS (signature) Amanda N. Mengrint

PROJECT NAME/NO. Crowley RIFS 101.0205.00019

PO# 101.00205.00019

REMARKS NWTPH-Dx after silica gel cleanup
HOLD ALL for CrVI
email copy of COC to mstanton@slrconsulting.com

TURNAROUND TIME
☒ Standard (2 Weeks)
☐ RUSH
Rush charges authorized by

SAMPLE DISPOSAL
☒ Dispose after 30 days
☐ Return samples
☐ Will call with instructions

Sample ID (EB-41→EB-47 per mike Stanton 6/11/13)	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260C	SVOCs by 8270D	HFS	DNAPL Hot Spot (HOLD)	NWTPH-Dx	PAH by 8270D SIM	PCBs by 8082A	Metals by 6020A	Cr VI by 7196A (HOLD)	Notes
EB-41-1.0	21AF	6/10/13	1415	SOIL	6				X	X		X	X	X	X	X	X	
EB-41-2.5	22A-E		1425															HOLD
EB-41-5.0	23AF		1435															
EB-41-7.5	24		1500															HOLD
EB-41-10.0	25		1510															
EB-41-12.5	26		1530															HOLD
EB-41-15.0	27		1540															HOLD per mike Stanton 6/17/13
EB-41-20.0	28	↓	1550	↓	↓									Add				HOLD
EB-81-2.5	29	6/10/13	1445	SOIL	6													HOLD per mike Stanton 6/24/13
TB-060613	30A,B	6/10/13	1445	WATER	2				⊗	X		X	X	X	X	X	X	HOLD

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FORMS\COC\COC.DOC

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Amanda Mengrint	SLR	6/10/13	1740
Received by:		HONG NGUYEN	FBA	"	"
Relinquished by:				3	
Received by:			Samples received at		°C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Kurt Johnson, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

July 22, 2013

Mike Staton
SLR International Corp.
22118 20th Ave. SE., G-202
Bothell, WA 98021

Dear Mr. Staton:

Included are the results from the testing of material submitted on June 12, 2013 from the Crowley RIFS 101.00205.00019, F&BI 306191 project. There are 98 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michele Costales Poquiz

Michele Costales Poquiz
Chemist

Enclosures
SLR0722R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on June 12, 2013 by Friedman & Bruya, Inc. from the SLR International Corp. Crowley RIFS 101.00205.00019, F&BI 306191 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SLR International Corp.
306191-01	TB-061213
306191-02	EMW-11S-1.0
306191-03	EMW-11S-2.5
306191-04	EMW-11S-5.0
306191-05	EMW-11S-7.5
306191-06	EMW-11S-10.0
306191-07	EMW-11S-12.5
306191-08	EMW-1S-2.5
306191-09	EMW-1S-5.0
306191-10	EMW-1S-7.5
306191-11	EMW-1S-10.0
306191-12	EMW-1S-15.0
306191-13	EMW-6S-1.0
306191-14	EMW-6S-2.5
306191-15	EMW-6S-5.0
306191-16	EMW-6S-7.5
306191-17	EMW-6S-10.0
306191-18	EMW-6S-12.5
306191-19	EMW-8S-1.0
306191-20	EMW-8S-2.5
306191-21	EMW-8S-5.0
306191-22	EMW-8S-7.5
306191-23	EMW-8S-10.0
306191-24	EMW-8S-12.5
306191-25	EMW-90S-7.5

Total Petroluem Hydrocarbons as Diesel and Motor Oil by Method NWTPH-Dx with Silica Gel

All quality control requirements were acceptable.

Volatile Compounds by EPA Method 8260C

The presence of methylene chloride in the samples is likely due to laboratory contamination. The results have been flagged accordingly.

The trip blank sample was received with incorrect preservation for the 8260 analysis of vinyl chloride. The result should be considered an estimate.

CASE NARRATIVE (cont.)

The percent recovery for the laboratory control sample (LCS), matrix spike (MS) and/or matrix spike duplicate (MSD) exceeded acceptance criteria for the 8260C analysis of several compounds. In addition, the relative percent difference (RPD) for the MS and MSD exceeded acceptance criteria for bromomethane. These analytes were not identified in the samples, therefore the results are acceptable.

Semivolatile Organic Compounds by EPA Method 8270D
The samples EMW-11S-1.0, EMW-11S-5.0, EMW-11S-10.0, EMW-1S-2.5, EMW-1S-5.0, EMW-6S-1.0, and EMW-8S-1.0 were diluted due to matrix interferences. The reporting limits have been raised accordingly.

The internal standard associated with several analytes exceeded acceptance criteria for the sample EMW-8S-1.0. The sample was diluted and reanalyzed. The results for the full strength and the dilution analyses are included.

The calibration results for several compounds fell outside of acceptance criteria for the method blank. The values reported are estimates.

Semivolatile Organic Compounds by EPA Method 8270D SIM
The samples EMW-11S-5.0, EMW-1S-2.5, EMW-1S-5.0, and EMW-6S-1.0 were diluted due to matrix interferences. The reporting limits have been raised accordingly.

The percent recovery for the MSD and the RPD for the MS and MSD exceeded acceptance criteria for the 8270D and 8270D SIM analysis of several compounds. In addition, the internal standard associated with di-n-octyl phthalate was out of control limits. The results have been flagged accordingly.

Polychlorinated Biphenyls as Aroclor 1016/1260 by EPA Method 8082A
For sample EMW-11S-5.0, although a pattern of peaks characteristic of any of the individual Aroclors was not identified, the presence of PCB congeners cannot be ruled out based on the data generated. Additional testing of this sample by EPA Method 1668 or similar would be recommended to evaluate the presence or absence of PCBs in this sample, if warranted.

Total Metals by EPA Method 200.8
All quality control requirements were acceptable.

Total Mercury by EPA Method 1631E
All quality control requirements were acceptable.

Date of Report: 07/22/13
Date Received: 06/12/13
Project: Crowley RIFS 101.00205.00019, F&BI 306191
Date Extracted: 06/21/13
Date Analyzed: 06/21/13 and 06/22/13

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx
Sample Extracts Passed Through a Silica Gel Column Prior to Analysis
Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 53-144)
EMW-11S-1.0 306191-02	<12	32	101
EMW-11S-5.0 306191-04	<12	34	94
EMW-11S-10.0 306191-06	<12	<21	110
EMW-1S-2.5 306191-08	<12	110	97
EMW-1S-5.0 306191-09	<12	<21	107
EMW-1S-10.0 306191-11	<12	<21	91
EMW-6S-1.0 306191-13	<12	270	101
EMW-6S-5.0 306191-15	<12	<21	108
EMW-6S-10.0 306191-17	<12	<21	97
EMW-8S-1.0 306191-19	<12	<21	95

Date of Report: 07/22/13
Date Received: 06/12/13
Project: Crowley RIFS 101.00205.00019, F&BI 306191
Date Extracted: 06/21/13
Date Analyzed: 06/21/13 and 06/22/13

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx
Sample Extracts Passed Through a Silica Gel Column Prior to Analysis
Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 53-144)
EMW-8S-5.0 306191-21	99	69	96
EMW-8S-10.0 306191-23	<12	<21	105
Method Blank 03-1200 MB	<12	<21	115

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-11S-1.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	306191-02
Date Analyzed:	06/20/13	Data File:	062022.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	96	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	0.11 lc	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-11S-5.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	306191-04
Date Analyzed:	06/20/13	Data File:	062023.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	0.15 lc	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-11S-10.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	306191-06
Date Analyzed:	06/20/13	Data File:	062024.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	0.12 lc	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-1S-2.5	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	306191-08
Date Analyzed:	06/20/13	Data File:	062025.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	96	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	0.23 lc	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-1S-5.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	306191-09
Date Analyzed:	06/20/13	Data File:	062026.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	0.097 lc	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-1S-10.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	306191-11
Date Analyzed:	06/20/13	Data File:	062027.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	96	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	0.22	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	0.098 lc	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-6S-1.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	306191-13
Date Analyzed:	06/20/13	Data File:	062028.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	96	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	0.069 lc	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-6S-5.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	306191-15
Date Analyzed:	06/20/13	Data File:	062029.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	96	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	0.13 lc	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-6S-10.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	306191-17
Date Analyzed:	06/20/13	Data File:	062030.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	96	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	0.072 lc	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-8S-1.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	306191-19
Date Analyzed:	06/20/13	Data File:	062031.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	0.099 lc	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-8S-5.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	306191-21
Date Analyzed:	06/20/13	Data File:	062032.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	0.14 lc	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-8S-10.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	306191-23
Date Analyzed:	06/20/13	Data File:	062033.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	0.12 lc	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	03-1119 mb
Date Analyzed:	06/20/13	Data File:	062020.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	0.15 lc	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	TB-061213	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/18/13	Lab ID:	306191-01
Date Analyzed:	06/18/13	Data File:	061814.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	97	50	150
4-Bromofluorobenzene	95	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13 pr	Dibromochloromethane	<0.24
Bromomethane	<0.2	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/18/13	Lab ID:	03-1114 mb
Date Analyzed:	06/18/13	Data File:	061809.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	96	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-11S-1.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	306191-02 1/10
Date Analyzed:	06/27/13	Data File:	062619.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	58 ds	56	115
Phenol-d6	63 ds	54	113
Nitrobenzene-d5	64 ds	31	164
2-Fluorobiphenyl	69 ds	47	133
2,4,6-Tribromophenol	73 ds	35	141
Terphenyl-d14	98 ds	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.054	2,4,6-Trichlorophenol	<0.08
Bis(2-chloroethyl) ether	<0.016	2,4,5-Trichlorophenol	<0.096
2-Chlorophenol	<0.062	2-Chloronaphthalene	<0.014
1,3-Dichlorobenzene	<0.026	2-Nitroaniline	<0.026
1,4-Dichlorobenzene	<0.024	Dimethyl phthalate	<0.012
1,2-Dichlorobenzene	<0.04	2,6-Dinitrotoluene	<0.018
Benzyl alcohol	<0.05	3-Nitroaniline	<0.17
Bis(2-chloroisopropyl) ether	<0.016	2,4-Dinitrophenol	<0.14
2-Methylphenol	<0.064	Dibenzofuran	<0.01
Hexachloroethane	<0.034	2,4-Dinitrotoluene	<0.016
N-Nitroso-di-n-propylamine	<0.03	4-Nitrophenol	<0.18
3-Methylphenol + 4-Methylphenol	<0.14	Diethyl phthalate	<0.04
Nitrobenzene	<0.026	4-Chlorophenyl phenyl ether	<0.016
Isophorone	<0.012	N-Nitrosodiphenylamine	<0.01
2-Nitrophenol	<0.082	4-Nitroaniline	<0.18
2,4-Dimethylphenol	<0.19	4,6-Dinitro-2-methylphenol	<0.11
Benzoic acid	<0.55	4-Bromophenyl phenyl ether	<0.016
Bis(2-chloroethoxy)methane	<0.014	Hexachlorobenzene	<0.01
2,4-Dichlorophenol	<0.058	Pentachlorophenol	<0.062 j
1,2,4-Trichlorobenzene	<0.034	Carbazole	<0.02
Hexachlorobutadiene	<0.02	Di-n-butyl phthalate	<0.2
4-Chloroaniline	<1.8	Benzyl butyl phthalate	<0.058
4-Chloro-3-methylphenol	<0.044	Bis(2-ethylhexyl) phthalate	<0.13
2-Methylnaphthalene	<0.01	Di-n-octyl phthalate	<0.034
Hexachlorocyclopentadiene	<0.022		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-11S-5.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	306191-04 1/10
Date Analyzed:	06/27/13	Data File:	062620.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	49 ds	56	115
Phenol-d6	55 ds	54	113
Nitrobenzene-d5	50 ds	31	164
2-Fluorobiphenyl	59 ds	47	133
2,4,6-Tribromophenol	74 ds	35	141
Terphenyl-d14	91 ds	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.054	2,4,6-Trichlorophenol	<0.08
Bis(2-chloroethyl) ether	<0.016	2,4,5-Trichlorophenol	<0.096
2-Chlorophenol	<0.062	2-Chloronaphthalene	<0.014
1,3-Dichlorobenzene	<0.026	2-Nitroaniline	<0.026
1,4-Dichlorobenzene	<0.024	Dimethyl phthalate	<0.012
1,2-Dichlorobenzene	<0.04	2,6-Dinitrotoluene	<0.018
Benzyl alcohol	<0.05	3-Nitroaniline	<0.17
Bis(2-chloroisopropyl) ether	<0.016	2,4-Dinitrophenol	<0.14
2-Methylphenol	<0.064	Dibenzofuran	<0.01
Hexachloroethane	<0.034	2,4-Dinitrotoluene	<0.016
N-Nitroso-di-n-propylamine	<0.03	4-Nitrophenol	<0.18
3-Methylphenol + 4-Methylphenol	<0.14	Diethyl phthalate	<0.04
Nitrobenzene	<0.026	4-Chlorophenyl phenyl ether	<0.016
Isophorone	<0.012	N-Nitrosodiphenylamine	<0.01
2-Nitrophenol	<0.082	4-Nitroaniline	<0.18
2,4-Dimethylphenol	<0.19	4,6-Dinitro-2-methylphenol	<0.11
Benzoic acid	<0.55	4-Bromophenyl phenyl ether	<0.016
Bis(2-chloroethoxy)methane	<0.014	Hexachlorobenzene	<0.01
2,4-Dichlorophenol	<0.058	Pentachlorophenol	<0.062 j
1,2,4-Trichlorobenzene	<0.034	Carbazole	<0.02
Hexachlorobutadiene	<0.02	Di-n-butyl phthalate	<0.2
4-Chloroaniline	<1.8	Benzyl butyl phthalate	<0.058
4-Chloro-3-methylphenol	<0.044	Bis(2-ethylhexyl) phthalate	<0.13
2-Methylnaphthalene	<0.01	Di-n-octyl phthalate	<0.034
Hexachlorocyclopentadiene	<0.022		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-11S-10.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	306191-06 1/10
Date Analyzed:	06/26/13	Data File:	062616.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	45 ds	56	115
Phenol-d6	43 ds	54	113
Nitrobenzene-d5	42 ds	31	164
2-Fluorobiphenyl	63 ds	47	133
2,4,6-Tribromophenol	59 ds	35	141
Terphenyl-d14	80 ds	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.054	2,4,6-Trichlorophenol	<0.08
Bis(2-chloroethyl) ether	<0.016	2,4,5-Trichlorophenol	<0.096
2-Chlorophenol	<0.062	2-Chloronaphthalene	<0.014
1,3-Dichlorobenzene	<0.026	2-Nitroaniline	<0.026
1,4-Dichlorobenzene	<0.024	Dimethyl phthalate	<0.012
1,2-Dichlorobenzene	<0.04	2,6-Dinitrotoluene	<0.018
Benzyl alcohol	<0.05	3-Nitroaniline	<0.17
Bis(2-chloroisopropyl) ether	<0.016	2,4-Dinitrophenol	<0.14
2-Methylphenol	<0.064	Dibenzofuran	<0.01
Hexachloroethane	<0.034	2,4-Dinitrotoluene	<0.016
N-Nitroso-di-n-propylamine	<0.03	4-Nitrophenol	<0.18
3-Methylphenol + 4-Methylphenol	<0.14	Diethyl phthalate	<0.04
Nitrobenzene	<0.026	4-Chlorophenyl phenyl ether	<0.016
Isophorone	<0.012	N-Nitrosodiphenylamine	<0.01
2-Nitrophenol	<0.082	4-Nitroaniline	<0.18
2,4-Dimethylphenol	<0.19	4,6-Dinitro-2-methylphenol	<0.11
Benzoic acid	<0.55	4-Bromophenyl phenyl ether	<0.016
Bis(2-chloroethoxy)methane	<0.014	Hexachlorobenzene	<0.01
2,4-Dichlorophenol	<0.058	Pentachlorophenol	<0.062 j
1,2,4-Trichlorobenzene	<0.034	Carbazole	<0.02
Hexachlorobutadiene	<0.02	Di-n-butyl phthalate	<0.2
4-Chloroaniline	<1.8	Benzyl butyl phthalate	<0.058
4-Chloro-3-methylphenol	<0.044	Bis(2-ethylhexyl) phthalate	<0.13
2-Methylnaphthalene	<0.01	Di-n-octyl phthalate	<0.034
Hexachlorocyclopentadiene	<0.022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-11S-12.5	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306191-07
Date Analyzed:	07/11/13	Data File:	071029.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	72	56	115
Phenol-d6	75	54	113
Nitrobenzene-d5	75	31	164
2-Fluorobiphenyl	76	47	133
2,4,6-Tribromophenol	88	35	141
Terphenyl-d14	85	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	0.0068	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014
2-Methylphenol	<0.0064	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019 jl	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062 j
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	<0.013
2-Methylnaphthalene	<0.001	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-1S-2.5	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	306191-08 1/10
Date Analyzed:	06/27/13	Data File:	062618.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	59 ds	56	115
Phenol-d6	61 ds	54	113
Nitrobenzene-d5	52 ds	31	164
2-Fluorobiphenyl	68 ds	47	133
2,4,6-Tribromophenol	75 ds	35	141
Terphenyl-d14	96 ds	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.054	2,4,6-Trichlorophenol	<0.08
Bis(2-chloroethyl) ether	<0.016	2,4,5-Trichlorophenol	<0.096
2-Chlorophenol	<0.062	2-Chloronaphthalene	<0.014
1,3-Dichlorobenzene	<0.026	2-Nitroaniline	<0.026
1,4-Dichlorobenzene	<0.024	Dimethyl phthalate	<0.012
1,2-Dichlorobenzene	<0.04	2,6-Dinitrotoluene	<0.018
Benzyl alcohol	<0.05	3-Nitroaniline	<0.17
Bis(2-chloroisopropyl) ether	<0.016	2,4-Dinitrophenol	<0.14
2-Methylphenol	<0.064	Dibenzofuran	<0.01
Hexachloroethane	<0.034	2,4-Dinitrotoluene	<0.016
N-Nitroso-di-n-propylamine	<0.03	4-Nitrophenol	<0.18
3-Methylphenol + 4-Methylphenol	<0.14	Diethyl phthalate	<0.04
Nitrobenzene	<0.026	4-Chlorophenyl phenyl ether	<0.016
Isophorone	<0.012	N-Nitrosodiphenylamine	<0.01
2-Nitrophenol	<0.082	4-Nitroaniline	<0.18
2,4-Dimethylphenol	<0.19	4,6-Dinitro-2-methylphenol	<0.11
Benzoic acid	<0.55	4-Bromophenyl phenyl ether	<0.016
Bis(2-chloroethoxy)methane	<0.014	Hexachlorobenzene	<0.01
2,4-Dichlorophenol	<0.058	Pentachlorophenol	<0.062 j
1,2,4-Trichlorobenzene	<0.034	Carbazole	<0.02
Hexachlorobutadiene	<0.02	Di-n-butyl phthalate	<0.2
4-Chloroaniline	<1.8	Benzyl butyl phthalate	<0.058
4-Chloro-3-methylphenol	<0.044	Bis(2-ethylhexyl) phthalate	<0.13
2-Methylnaphthalene	<0.01	Di-n-octyl phthalate	<0.034
Hexachlorocyclopentadiene	<0.022		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-1S-5.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	306191-09 1/10
Date Analyzed:	06/26/13	Data File:	062617.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	65 ds	56	115
Phenol-d6	64 ds	54	113
Nitrobenzene-d5	64 ds	31	164
2-Fluorobiphenyl	72 ds	47	133
2,4,6-Tribromophenol	75 ds	35	141
Terphenyl-d14	101 ds	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.054	2,4,6-Trichlorophenol	<0.08
Bis(2-chloroethyl) ether	<0.016	2,4,5-Trichlorophenol	<0.096
2-Chlorophenol	<0.062	2-Chloronaphthalene	<0.014
1,3-Dichlorobenzene	<0.026	2-Nitroaniline	<0.026
1,4-Dichlorobenzene	<0.024	Dimethyl phthalate	<0.012
1,2-Dichlorobenzene	<0.04	2,6-Dinitrotoluene	<0.018
Benzyl alcohol	<0.05	3-Nitroaniline	<0.17
Bis(2-chloroisopropyl) ether	<0.016	2,4-Dinitrophenol	<0.14
2-Methylphenol	<0.064	Dibenzofuran	<0.01
Hexachloroethane	<0.034	2,4-Dinitrotoluene	<0.016
N-Nitroso-di-n-propylamine	<0.03	4-Nitrophenol	<0.18
3-Methylphenol + 4-Methylphenol	<0.14	Diethyl phthalate	<0.04
Nitrobenzene	<0.026	4-Chlorophenyl phenyl ether	<0.016
Isophorone	<0.012	N-Nitrosodiphenylamine	<0.01
2-Nitrophenol	<0.082	4-Nitroaniline	<0.18
2,4-Dimethylphenol	<0.19	4,6-Dinitro-2-methylphenol	<0.11
Benzoic acid	<0.55	4-Bromophenyl phenyl ether	<0.016
Bis(2-chloroethoxy)methane	<0.014	Hexachlorobenzene	<0.01
2,4-Dichlorophenol	<0.058	Pentachlorophenol	<0.062 j
1,2,4-Trichlorobenzene	<0.034	Carbazole	<0.02
Hexachlorobutadiene	<0.02	Di-n-butyl phthalate	<0.2
4-Chloroaniline	<1.8	Benzyl butyl phthalate	<0.058
4-Chloro-3-methylphenol	<0.044	Bis(2-ethylhexyl) phthalate	<0.13
2-Methylnaphthalene	<0.01	Di-n-octyl phthalate	<0.034
Hexachlorocyclopentadiene	<0.022		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-1S-10.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	306191-11
Date Analyzed:	06/25/13	Data File:	062511.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	62	56	115
Phenol-d6	69	54	113
Nitrobenzene-d5	69	31	164
2-Fluorobiphenyl	62	47	133
2,4,6-Tribromophenol	86	35	141
Terphenyl-d14	84	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	0.054	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014
2-Methylphenol	<0.0064	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062 j
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	<0.013
2-Methylnaphthalene	<0.001	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-6S-1.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	306191-13 1/100
Date Analyzed:	06/25/13	Data File:	062517.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	67 ds	56	115
Phenol-d6	47 ds	54	113
Nitrobenzene-d5	50 ds	31	164
2-Fluorobiphenyl	70 ds	47	133
2,4,6-Tribromophenol	53 ds	35	141
Terphenyl-d14	110 ds	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.54	2,4,6-Trichlorophenol	<0.8
Bis(2-chloroethyl) ether	<0.16	2,4,5-Trichlorophenol	<0.96
2-Chlorophenol	<0.62	2-Chloronaphthalene	<0.14
1,3-Dichlorobenzene	<0.26	2-Nitroaniline	<0.26
1,4-Dichlorobenzene	<0.24	Dimethyl phthalate	<0.12
1,2-Dichlorobenzene	<0.4	2,6-Dinitrotoluene	<0.18
Benzyl alcohol	<0.5	3-Nitroaniline	<1.7
Bis(2-chloroisopropyl) ether	<0.16	2,4-Dinitrophenol	<1.4
2-Methylphenol	<0.64	Dibenzofuran	<0.1
Hexachloroethane	<0.34	2,4-Dinitrotoluene	<0.16
N-Nitroso-di-n-propylamine	<0.3	4-Nitrophenol	<1.8
3-Methylphenol + 4-Methylphenol	<1.4	Diethyl phthalate	<0.4
Nitrobenzene	<0.26	4-Chlorophenyl phenyl ether	<0.16
Isophorone	<0.12	N-Nitrosodiphenylamine	<0.1
2-Nitrophenol	<0.82	4-Nitroaniline	<1.8
2,4-Dimethylphenol	<1.9	4,6-Dinitro-2-methylphenol	<1.1
Benzoic acid	<5.5	4-Bromophenyl phenyl ether	<0.16
Bis(2-chloroethoxy)methane	<0.14	Hexachlorobenzene	<0.1
2,4-Dichlorophenol	<0.58	Pentachlorophenol	<0.62 j
1,2,4-Trichlorobenzene	<0.34	Carbazole	<0.2
Hexachlorobutadiene	<0.2	Di-n-butyl phthalate	<2
4-Chloroaniline	<18	Benzyl butyl phthalate	<0.58
4-Chloro-3-methylphenol	<0.44	Bis(2-ethylhexyl) phthalate	<1.3
2-Methylnaphthalene	<0.1	Di-n-octyl phthalate	<0.34
Hexachlorocyclopentadiene	<0.22		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-6S-5.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	306191-15
Date Analyzed:	06/25/13	Data File:	062512.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	55 ip	56	115
Phenol-d6	62	54	113
Nitrobenzene-d5	62	31	164
2-Fluorobiphenyl	64	47	133
2,4,6-Tribromophenol	80	35	141
Terphenyl-d14	93	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	0.021	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014
2-Methylphenol	<0.0064	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062 j
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	<0.013
2-Methylnaphthalene	<0.001	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-6S-10.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	306191-17
Date Analyzed:	06/25/13	Data File:	062513.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	67	56	115
Phenol-d6	75	54	113
Nitrobenzene-d5	67	31	164
2-Fluorobiphenyl	61	47	133
2,4,6-Tribromophenol	91	35	141
Terphenyl-d14	82	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	0.072	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014
2-Methylphenol	<0.0064	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062 j
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	<0.013
2-Methylnaphthalene	<0.001	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-6S-12.5	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306191-18
Date Analyzed:	07/10/13	Data File:	071005.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	74	56	115
Phenol-d6	73	54	113
Nitrobenzene-d5	79	31	164
2-Fluorobiphenyl	80	47	133
2,4,6-Tribromophenol	91	35	141
Terphenyl-d14	94	64	125

Compounds:	Concentration mg/kg (ppm)
Benzyl alcohol	0.011

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-8S-1.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	306191-19
Date Analyzed:	06/25/13	Data File:	062519.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	64	56	115
Phenol-d6	75	54	113
Nitrobenzene-d5	69	31	164
2-Fluorobiphenyl	73 J	47	133
2,4,6-Tribromophenol	89 J	35	141
Terphenyl-d14	88	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008 J
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096 J
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014 J
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026 J
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012 J
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018 J
Benzyl alcohol	0.023	3-Nitroaniline	<0.017 J
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014 J
2-Methylphenol	<0.0064	Dibenzofuran	<0.001 J
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016 J
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018 J
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004 J
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016 J
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001 J
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018 J
2,4-Dimethylphenol	<0.019	4,6-Dinitro-2-methylphenol	<0.011 J
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016 J
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001 J
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062 J j
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002 J
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02 J
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	<0.013
2-Methylnaphthalene	<0.001	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022 J		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-8S-1.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	306191-19 1/10
Date Analyzed:	06/27/13	Data File:	062621.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	65 ds	56	115
Phenol-d6	55 ds	54	113
Nitrobenzene-d5	56 ds	31	164
2-Fluorobiphenyl	80 ds	47	133
2,4,6-Tribromophenol	67 ds	35	141
Terphenyl-d14	91 ds	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.054	2,4,6-Trichlorophenol	<0.08
Bis(2-chloroethyl) ether	<0.016	2,4,5-Trichlorophenol	<0.096
2-Chlorophenol	<0.062	2-Chloronaphthalene	<0.014
1,3-Dichlorobenzene	<0.026	2-Nitroaniline	<0.026
1,4-Dichlorobenzene	<0.024	Dimethyl phthalate	<0.012
1,2-Dichlorobenzene	<0.04	2,6-Dinitrotoluene	<0.018
Benzyl alcohol	<0.05	3-Nitroaniline	<0.17
Bis(2-chloroisopropyl) ether	<0.016	2,4-Dinitrophenol	<0.14
2-Methylphenol	<0.064	Dibenzofuran	<0.01
Hexachloroethane	<0.034	2,4-Dinitrotoluene	<0.016
N-Nitroso-di-n-propylamine	<0.03	4-Nitrophenol	<0.18
3-Methylphenol + 4-Methylphenol	<0.14	Diethyl phthalate	<0.04
Nitrobenzene	<0.026	4-Chlorophenyl phenyl ether	<0.016
Isophorone	<0.012	N-Nitrosodiphenylamine	<0.01
2-Nitrophenol	<0.082	4-Nitroaniline	<0.18
2,4-Dimethylphenol	<0.19	4,6-Dinitro-2-methylphenol	<0.11
Benzoic acid	<0.55	4-Bromophenyl phenyl ether	<0.016
Bis(2-chloroethoxy)methane	<0.014	Hexachlorobenzene	<0.01
2,4-Dichlorophenol	<0.058	Pentachlorophenol	<0.062 j
1,2,4-Trichlorobenzene	<0.034	Carbazole	<0.02
Hexachlorobutadiene	<0.02	Di-n-butyl phthalate	<0.2
4-Chloroaniline	<1.8	Benzyl butyl phthalate	<0.058
4-Chloro-3-methylphenol	<0.044	Bis(2-ethylhexyl) phthalate	<0.13
2-Methylnaphthalene	<0.01	Di-n-octyl phthalate	<0.034
Hexachlorocyclopentadiene	<0.022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-8S-5.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	306191-21
Date Analyzed:	06/25/13	Data File:	062520.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	66	56	115
Phenol-d6	78	54	113
Nitrobenzene-d5	79	31	164
2-Fluorobiphenyl	88	47	133
2,4,6-Tribromophenol	90	35	141
Terphenyl-d14	86	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	0.027	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014
2-Methylphenol	<0.0064	Dibenzofuran	0.0060
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062 j
1,2,4-Trichlorobenzene	<0.0034	Carbazole	0.013
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	<0.013
2-Methylnaphthalene	0.014	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-8S-10.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	306191-23
Date Analyzed:	06/25/13	Data File:	062514.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	68	56	115
Phenol-d6	76	54	113
Nitrobenzene-d5	71	31	164
2-Fluorobiphenyl	73	47	133
2,4,6-Tribromophenol	90	35	141
Terphenyl-d14	81	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	0.024	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014
2-Methylphenol	<0.0064	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062 j
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	<0.013
2-Methylnaphthalene	<0.001	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	03-1236 mb
Date Analyzed:	06/25/13	Data File:	062506.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	79	56	115
Phenol-d6	88	54	113
Nitrobenzene-d5	92	31	164
2-Fluorobiphenyl	90	47	133
2,4,6-Tribromophenol	96	35	141
Terphenyl-d14	95	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	<0.005	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014
2-Methylphenol	<0.0064	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062 j
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	<0.013
2-Methylnaphthalene	<0.001	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	03-1253 mb
Date Analyzed:	07/09/13	Data File:	070918.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	84	56	115
Phenol-d6	87	54	113
Nitrobenzene-d5	91	31	164
2-Fluorobiphenyl	91	47	133
2,4,6-Tribromophenol	91	35	141
Terphenyl-d14	90	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	<0.005	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014 ca
2-Methylphenol	<0.0064	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019	4,6-Dinitro-2-methylphenol	<0.011 ca
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062 j
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	<0.013
2-Methylnaphthalene	<0.001	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-11S-1.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	306191-02
Date Analyzed:	06/26/13	Data File:	062613.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	74	50	150
Benzo(a)anthracene-d12	89	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.00022
Acenaphthylene	<0.000091
Acenaphthene	0.00022
Fluorene	0.00022
Phenanthrene	0.0010
Anthracene	0.00024
Fluoranthene	0.0015
Pyrene	0.0019
Benz(a)anthracene	0.0011
Chrysene	0.0017
Benzo(a)pyrene	0.0010
Benzo(b)fluoranthene	0.0015
Benzo(k)fluoranthene	0.00050
Indeno(1,2,3-cd)pyrene	0.00077
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	0.0011

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-11S-5.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	306191-04 1/10
Date Analyzed:	06/25/13	Data File:	062515.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	168 ds	50	150
Benzo(a)anthracene-d12	85 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.0029
Acenaphthylene	0.0010
Acenaphthene	0.0083
Fluorene	0.0054
Phenanthrene	0.12
Anthracene	0.048
Fluoranthene	0.33
Pyrene	0.47
Benz(a)anthracene	0.40
Chrysene	0.58
Benzo(a)pyrene	0.54
Benzo(b)fluoranthene	0.66
Benzo(k)fluoranthene	0.22
Indeno(1,2,3-cd)pyrene	0.34
Dibenz(a,h)anthracene	0.072
Benzo(g,h,i)perylene	0.27

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-11S-10.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	306191-06
Date Analyzed:	06/26/13	Data File:	062614.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	77	50	150
Benzo(a)anthracene-d12	83	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.00022
Acenaphthylene	<0.000091
Acenaphthene	<0.00014
Fluorene	0.00022
Phenanthrene	0.00097
Anthracene	0.00020
Fluoranthene	0.0012
Pyrene	0.0016
Benz(a)anthracene	0.00089
Chrysene	0.0015
Benzo(a)pyrene	0.00074
Benzo(b)fluoranthene	0.00097
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	<0.00062
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	0.00074

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-11S-12.5	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306191-07
Date Analyzed:	07/09/13	Data File:	070839.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	73	50	150
Benzo(a)anthracene-d12	81	35	159

Compounds:	Concentration mg/kg (ppm)
Benz(a)anthracene	<0.00018
Benzo(a)pyrene	<0.00022
Benzo(b)fluoranthene	<0.00018

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-1S-2.5	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	306191-08 1/10
Date Analyzed:	06/25/13	Data File:	062513.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	179 ds	50	150
Benzo(a)anthracene-d12	91 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.0022
Acenaphthylene	<0.00091
Acenaphthene	<0.0014
Fluorene	<0.0015
Phenanthrene	0.0065
Anthracene	<0.00088
Fluoranthene	0.014
Pyrene	0.012
Benz(a)anthracene	0.0063
Chrysene	0.0094
Benzo(a)pyrene	0.0072
Benzo(b)fluoranthene	0.011
Benzo(k)fluoranthene	0.0043
Indeno(1,2,3-cd)pyrene	0.0073
Dibenz(a,h)anthracene	<0.0034
Benzo(g,h,i)perylene	0.0086

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-1S-5.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	306191-09 1/10
Date Analyzed:	06/25/13	Data File:	062512.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	177 ds	50	150
Benzo(a)anthracene-d12	84 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.0022
Acenaphthylene	0.00099
Acenaphthene	<0.0014
Fluorene	<0.0015
Phenanthrene	0.010
Anthracene	0.0017
Fluoranthene	0.011
Pyrene	0.013
Benz(a)anthracene	0.0070
Chrysene	0.010
Benzo(a)pyrene	0.010
Benzo(b)fluoranthene	0.013
Benzo(k)fluoranthene	0.0042
Indeno(1,2,3-cd)pyrene	0.011
Dibenz(a,h)anthracene	<0.0034
Benzo(g,h,i)perylene	0.014

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-1S-10.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	306191-11
Date Analyzed:	06/25/13	Data File:	062522.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	52	50	150
Benzo(a)anthracene-d12	49	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.00022
Acenaphthylene	<0.000091
Acenaphthene	<0.00014
Fluorene	<0.00015
Phenanthrene	0.00090
Anthracene	0.00017
Fluoranthene	0.0028
Pyrene	0.0033
Benz(a)anthracene	0.0022
Chrysene	0.0026
Benzo(a)pyrene	0.0025
Benzo(b)fluoranthene	0.0029
Benzo(k)fluoranthene	0.0015
Indeno(1,2,3-cd)pyrene	0.0019
Dibenz(a,h)anthracene	0.00035
Benzo(g,h,i)perylene	0.0018

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-1S-15.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306191-12
Date Analyzed:	07/09/13	Data File:	070840.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	66	50	150
Benzo(a)anthracene-d12	70	35	159

Compounds:	Concentration mg/kg (ppm)
Benz(a)anthracene	0.0019
Benzo(a)pyrene	0.0026
Benzo(b)fluoranthene	0.0029
Benzo(k)fluoranthene	0.00083
Indeno(1,2,3-cd)pyrene	0.0021

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ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-6S-1.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	306191-13 1/100
Date Analyzed:	06/26/13	Data File:	062617.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	674 ds	50	150
Benzo(a)anthracene-d12	163 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.022
Acenaphthylene	<0.0091
Acenaphthene	<0.014
Fluorene	<0.015
Phenanthrene	<0.032
Anthracene	<0.0088
Fluoranthene	<0.028
Pyrene	<0.026
Benz(a)anthracene	<0.018
Chrysene	0.022
Benzo(a)pyrene	<0.022
Benzo(b)fluoranthene	<0.018
Benzo(k)fluoranthene	<0.036
Indeno(1,2,3-cd)pyrene	<0.062
Dibenz(a,h)anthracene	<0.034
Benzo(g,h,i)perylene	<0.034

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-6S-5.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	306191-15
Date Analyzed:	06/25/13	Data File:	062523.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	80	50	150
Benzo(a)anthracene-d12	82	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.00022
Acenaphthylene	<0.000091
Acenaphthene	<0.00014
Fluorene	<0.00015
Phenanthrene	0.00048
Anthracene	<0.000088
Fluoranthene	0.00055
Pyrene	0.00051
Benz(a)anthracene	0.00028
Chrysene	0.00043
Benzo(a)pyrene	0.00035
Benzo(b)fluoranthene	0.00050
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	0.00074
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	0.0011

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-6S-10.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	306191-17
Date Analyzed:	06/25/13	Data File:	062524.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	70	50	150
Benzo(a)anthracene-d12	65	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.00027
Acenaphthylene	<0.000091
Acenaphthene	<0.00014
Fluorene	<0.00015
Phenanthrene	0.0011
Anthracene	0.00016
Fluoranthene	0.00094
Pyrene	0.0014
Benz(a)anthracene	0.00059
Chrysene	0.00058
Benzo(a)pyrene	0.00044
Benzo(b)fluoranthene	0.00050
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	<0.00062
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	0.00040

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-6S-12.5	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306191-18
Date Analyzed:	07/09/13	Data File:	070841.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	73	50	150
Benzo(a)anthracene-d12	86	35	159

Compounds:	Concentration mg/kg (ppm)
Benz(a)anthracene	0.00026
Benzo(a)pyrene	<0.00022

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-8S-1.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	306191-19
Date Analyzed:	06/26/13	Data File:	062615.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	79	50	150
Benzo(a)anthracene-d12	89	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.00041
Acenaphthylene	0.00045
Acenaphthene	<0.00014
Fluorene	0.00032
Phenanthrene	0.0018
Anthracene	0.00075
Fluoranthene	0.0053
Pyrene	0.0061
Benz(a)anthracene	0.0040
Chrysene	0.0056
Benzo(a)pyrene	0.0055
Benzo(b)fluoranthene	0.0080
Benzo(k)fluoranthene	0.0026
Indeno(1,2,3-cd)pyrene	0.0052
Dibenz(a,h)anthracene	0.0011
Benzo(g,h,i)perylene	0.0058

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-8S-5.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	306191-21
Date Analyzed:	06/26/13	Data File:	062528.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	75	50	150
Benzo(a)anthracene-d12	92	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.014
Acenaphthylene	0.0070
Acenaphthene	<0.00014
Fluorene	0.0019
Phenanthrene	0.028
Anthracene	0.027
Fluoranthene	0.055
Pyrene	0.076 ve
Benz(a)anthracene	0.054
Chrysene	0.16 ve
Benzo(a)pyrene	0.079 ve
Benzo(b)fluoranthene	0.16 ve
Benzo(k)fluoranthene	0.047
Indeno(1,2,3-cd)pyrene	0.12 ve
Dibenz(a,h)anthracene	0.027
Benzo(g,h,i)perylene	0.12 ve

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-8S-5.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	306191-21 1/100
Date Analyzed:	06/26/13	Data File:	062616.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	869 ds	50	150
Benzo(a)anthracene-d12	115 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.022
Acenaphthylene	<0.0091
Acenaphthene	<0.014
Fluorene	<0.015
Phenanthrene	<0.032
Anthracene	0.035
Fluoranthene	0.064
Pyrene	0.068
Benz(a)anthracene	0.054
Chrysene	0.17
Benzo(a)pyrene	0.086
Benzo(b)fluoranthene	0.16
Benzo(k)fluoranthene	0.053
Indeno(1,2,3-cd)pyrene	0.12
Dibenz(a,h)anthracene	<0.034
Benzo(g,h,i)perylene	0.14

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-8S-10.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	306191-23
Date Analyzed:	06/25/13	Data File:	062525.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	73	50	150
Benzo(a)anthracene-d12	72	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.00053
Acenaphthylene	<0.000091
Acenaphthene	0.00015
Fluorene	<0.00015
Phenanthrene	0.0014
Anthracene	0.00012
Fluoranthene	0.00044
Pyrene	0.00048
Benz(a)anthracene	0.00031
Chrysene	0.00040
Benzo(a)pyrene	<0.00022
Benzo(b)fluoranthene	0.00032
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	<0.00062
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	<0.00034

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-8S-12.5	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306191-24
Date Analyzed:	07/09/13	Data File:	070929.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	74	50	150
Benzo(a)anthracene-d12	78	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.00022

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	03-1254 mb2
Date Analyzed:	07/08/13	Data File:	070826.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	76	50	150
Benzo(a)anthracene-d12	87	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.00022
Acenaphthylene	<0.000091
Acenaphthene	<0.00014
Fluorene	<0.00015
Phenanthrene	<0.00032
Anthracene	<0.000088
Fluoranthene	<0.00028
Pyrene	<0.00026
Benz(a)anthracene	<0.00018
Chrysene	<0.00019
Benzo(a)pyrene	<0.00022
Benzo(b)fluoranthene	<0.00018
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	<0.00062
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	<0.00034

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	03-1235 mb
Date Analyzed:	06/25/13	Data File:	062506B.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	82	50	150
Benzo(a)anthracene-d12	84	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.00022
Acenaphthylene	<0.000091
Acenaphthene	<0.00014
Fluorene	<0.00015
Phenanthrene	<0.00032
Anthracene	<0.000088
Fluoranthene	<0.00028
Pyrene	<0.00026
Benz(a)anthracene	<0.00018
Chrysene	<0.00019
Benzo(a)pyrene	<0.00022
Benzo(b)fluoranthene	<0.00018
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	<0.00062
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	<0.00034

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-11S-1.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/26/13	Lab ID:	306191-02
Date Analyzed:	07/02/13	Data File:	12.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	90	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-11S-5.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/26/13	Lab ID:	306191-04
Date Analyzed:	07/02/13	Data File:	14.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	54	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-11S-10.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/26/13	Lab ID:	306191-06
Date Analyzed:	07/02/13	Data File:	16.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	65	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-1S-2.5	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/26/13	Lab ID:	306191-08
Date Analyzed:	07/02/13	Data File:	18.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	94	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-1S-5.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/26/13	Lab ID:	306191-09
Date Analyzed:	07/09/13	Data File:	10.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	79	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-1S-10.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/26/13	Lab ID:	306191-11
Date Analyzed:	07/02/13	Data File:	22.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	84	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-6S-1.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/26/13	Lab ID:	306191-13
Date Analyzed:	07/09/13	Data File:	12.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	91	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-6S-5.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/26/13	Lab ID:	306191-15
Date Analyzed:	07/02/13	Data File:	26.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	68	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-6S-10.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/26/13	Lab ID:	306191-17
Date Analyzed:	07/09/13	Data File:	14.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	61	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-8S-1.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/26/13	Lab ID:	306191-19
Date Analyzed:	07/09/13	Data File:	16.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	79	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-8S-5.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/26/13	Lab ID:	306191-21
Date Analyzed:	07/09/13	Data File:	18.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	77	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-8S-10.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/26/13	Lab ID:	306191-23
Date Analyzed:	07/02/13	Data File:	40.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	84	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/26/13	Lab ID:	03-1245 mb
Date Analyzed:	07/02/13	Data File:	10.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	88	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-11S-1.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/21/13	Lab ID:	306191-02
Date Analyzed:	06/24/13	Data File:	306191-02.019
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	98	60	125
Indium	89	60	125
Holmium	96	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.120
Chromium	10.9
Nickel	18.4
Copper	11.4
Zinc	19.3
Arsenic	2.77
Selenium	<0.912
Silver	<0.0784
Cadmium	<0.204
Antimony	0.426
Barium	34.8
Thallium	<0.0434
Lead	2.42

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-11S-5.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/21/13	Lab ID:	306191-04
Date Analyzed:	06/24/13	Data File:	306191-04.015
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	103	60	125
Indium	92	60	125
Holmium	99	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.114
Chromium	17.2
Nickel	18.7
Copper	10.2
Zinc	18.3
Arsenic	1.86
Selenium	<0.912
Silver	<0.0784
Cadmium	<0.204
Antimony	0.136
Barium	75.7
Thallium	<0.0434
Lead	2.18

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-11S-10.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/21/13	Lab ID:	306191-06
Date Analyzed:	06/24/13	Data File:	306191-06.020
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	97	60	125
Indium	89	60	125
Holmium	96	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.082
Chromium	4.87
Nickel	7.17
Copper	5.83
Zinc	14.4
Arsenic	1.25
Selenium	<0.912
Silver	<0.0784
Cadmium	<0.204
Antimony	<0.106
Barium	14.2
Thallium	<0.0434
Lead	1.09

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-1S-2.5	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/21/13	Lab ID:	306191-08
Date Analyzed:	06/24/13	Data File:	306191-08.021
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	103	60	125
Indium	90	60	125
Holmium	96	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.111
Chromium	16.6
Nickel	19.7
Copper	32.2
Zinc	247
Arsenic	3.97
Selenium	<0.912
Silver	<0.0784
Cadmium	0.540
Antimony	0.956
Barium	40.5
Thallium	<0.0434
Lead	32.5

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-1S-5.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/21/13	Lab ID:	306191-09
Date Analyzed:	06/24/13	Data File:	306191-09.022
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	93	60	125
Indium	87	60	125
Holmium	93	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	<0.086
Chromium	8.20
Nickel	17.0
Copper	10.5
Zinc	39.1
Arsenic	1.97
Selenium	<0.912
Silver	<0.0784
Cadmium	0.252
Antimony	0.678
Barium	19.3
Thallium	<0.0434
Lead	11.6

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-1S-10.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/21/13	Lab ID:	306191-11
Date Analyzed:	06/24/13	Data File:	306191-11.023
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	96	60	125
Indium	90	60	125
Holmium	96	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.163
Chromium	7.47
Nickel	4.59
Copper	15.9
Zinc	21.6
Arsenic	4.34
Selenium	<0.912
Silver	<0.0784
Cadmium	<0.204
Antimony	<0.106
Barium	44.4
Thallium	<0.0434
Lead	9.03

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-6S-1.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/21/13	Lab ID:	306191-13
Date Analyzed:	06/24/13	Data File:	306191-13.024
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	98	60	125
Indium	87	60	125
Holmium	95	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.121
Chromium	9.67
Nickel	12.1
Copper	20.3
Zinc	33.1
Arsenic	3.72
Selenium	<0.912
Silver	<0.0784
Cadmium	<0.204
Antimony	0.789
Barium	39.5
Thallium	<0.0434
Lead	17.9

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-6S-5.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/21/13	Lab ID:	306191-15
Date Analyzed:	06/24/13	Data File:	306191-15.025
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	96	60	125
Indium	90	60	125
Holmium	97	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	<0.086
Chromium	3.91
Nickel	3.65
Copper	6.18
Zinc	11.3
Arsenic	2.05
Selenium	<0.912
Silver	<0.0784
Cadmium	<0.204
Antimony	0.216
Barium	13.3
Thallium	<0.0434
Lead	1.21

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-6S-10.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/21/13	Lab ID:	306191-17
Date Analyzed:	06/24/13	Data File:	306191-17.026
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	93	60	125
Indium	89	60	125
Holmium	95	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.108
Chromium	8.35
Nickel	6.51
Copper	14.8
Zinc	16.1
Arsenic	2.03
Selenium	<0.912
Silver	<0.0784
Cadmium	<0.204
Antimony	0.348
Barium	24.1
Thallium	<0.0434
Lead	2.68

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-8S-1.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/21/13	Lab ID:	306191-19
Date Analyzed:	06/24/13	Data File:	306191-19.027
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	94	60	125
Indium	85	60	125
Holmium	92	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.139
Chromium	10.2
Nickel	15.9
Copper	15.6
Zinc	29.0
Arsenic	5.55
Selenium	<0.912
Silver	<0.0784
Cadmium	<0.204
Antimony	1.95
Barium	37.9
Thallium	<0.0434
Lead	4.15

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-8S-5.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/21/13	Lab ID:	306191-21
Date Analyzed:	06/24/13	Data File:	306191-21.028
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	94	60	125
Indium	87	60	125
Holmium	95	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	<0.086
Chromium	4.48
Nickel	4.17
Copper	7.41
Zinc	18.7
Arsenic	3.02
Selenium	<0.912
Silver	<0.0784
Cadmium	<0.204
Antimony	0.130
Barium	15.3
Thallium	<0.0434
Lead	1.48

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-8S-10.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/21/13	Lab ID:	306191-23
Date Analyzed:	06/24/13	Data File:	306191-23.030
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	94	60	125
Indium	88	60	125
Holmium	95	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.094
Chromium	5.68
Nickel	5.47
Copper	7.93
Zinc	14.2
Arsenic	1.69
Selenium	<0.912
Silver	<0.0784
Cadmium	<0.204
Antimony	<0.106
Barium	20.4
Thallium	<0.0434
Lead	1.59

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/21/13	Lab ID:	I3-362 mb
Date Analyzed:	06/24/13	Data File:	I3-362 mb.014
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	93	60	125
Indium	92	60	125
Holmium	97	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	<0.086
Chromium	<0.47
Nickel	<0.206
Copper	<0.375 j
Zinc	<0.97
Arsenic	<0.422
Selenium	<0.912
Silver	<0.079
Cadmium	<0.204
Antimony	<0.106
Barium	<0.0524 j
Thallium	<0.0434
Lead	<0.0496 j

Date of Report: 07/22/13
Date Received: 06/12/13
Project: Crowley RIFS 101.00205.00019, F&BI 306191
Date Extracted: 06/21/13
Date Analyzed: 06/24/13 and 06/26/13

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Total Mercury
EMW-11S-1.0 306191-02	0.016
EMW-11S-5.0 306191-04	0.014
EMW-11S-10.0 306191-06	0.0078
EMW-1S-2.5 306191-08 1/5	0.022
EMW-1S-5.0 306191-09	0.029
EMW-1S-10.0 306191-11	0.059
EMW-6S-1.0 306191-13	0.017
EMW-6S-5.0 306191-15	0.0059
EMW-6S-10.0 306191-17	0.029
EMW-8S-1.0 306191-19	0.021
EMW-8S-5.0 306191-21	0.012

Date of Report: 07/22/13
Date Received: 06/12/13
Project: Crowley RIFS 101.00205.00019, F&BI 306191
Date Extracted: 06/21/13
Date Analyzed: 06/24/13 and 06/26/13

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL MERCURY
USING EPA METHOD 1631E

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Total Mercury
EMW-8S-10.0 306191-23	0.013
Method Blank	<0.002
Method Blank	<0.002

Date of Report: 07/22/13
Date Received: 06/12/13
Project: Crowley RIFS 101.00205.00019, F&BI 306191

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 306191-04 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	500	26	96	107	64-133	11

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	500	123	58-147

Date of Report: 07/22/13
Date Received: 06/12/13
Project: Crowley RIFS 101.00205.00019, F&BI 306191

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 306191-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	mg/kg (ppm)	2.5	<0.02	29	30	10-56	3
Chloromethane	mg/kg (ppm)	2.5	<0.026	58	60	10-90	3
Vinyl chloride	mg/kg (ppm)	2.5	<0.016	62	64	10-91	3
Bromomethane	mg/kg (ppm)	2.5	<0.034	77	111 vo	10-110	36 vo
Chloroethane	mg/kg (ppm)	2.5	<0.024	81	86	10-101	6
Trichlorofluoromethane	mg/kg (ppm)	2.5	<0.02	76	80	10-95	5
Acetone	mg/kg (ppm)	12.5	<0.2	106	101	11-141	5
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.026	78	77	11-103	1
Methylene chloride	mg/kg (ppm)	2.5	0.10	95	95	14-128	0
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2.5	<0.013	101	103	17-134	2
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.024	88	89	13-112	1
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.017	89	91	23-115	2
2,2-Dichloropropane	mg/kg (ppm)	2.5	<0.026	106	117	18-117	10
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.022	91	90	25-120	1
Chloroform	mg/kg (ppm)	2.5	<0.017	90	90	29-117	0
2-Butanone (MEK)	mg/kg (ppm)	12.5	<0.14	99	94	20-133	5
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.016	91	91	22-124	0
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.022	95	100	27-112	5
1,1-Dichloropropene	mg/kg (ppm)	2.5	<0.024	87	88	26-107	1
Carbon tetrachloride	mg/kg (ppm)	2.5	<0.03	100	108	22-115	8
Benzene	mg/kg (ppm)	2.5	<0.014	89	88	26-114	1
Trichloroethene	mg/kg (ppm)	2.5	<0.034	91	90	30-112	1
1,2-Dichloropropane	mg/kg (ppm)	2.5	<0.034	93	93	31-119	0
Bromodichloromethane	mg/kg (ppm)	2.5	<0.024	96	99	31-131	3
Dibromomethane	mg/kg (ppm)	2.5	<0.022	95	95	27-124	0
4-Methyl-2-pentanone	mg/kg (ppm)	12.5	<0.14	103	100	16-147	3
cis-1,3-Dichloropropene	mg/kg (ppm)	2.5	<0.022	106	110	28-137	4
Toluene	mg/kg (ppm)	2.5	<0.017	90	88	34-112	2
trans-1,3-Dichloropropene	mg/kg (ppm)	2.5	<0.015	98	101	30-136	3
1,1,2-Trichloroethane	mg/kg (ppm)	2.5	<0.014	94	92	32-126	2
2-Hexanone	mg/kg (ppm)	12.5	<0.096	102	98	17-147	4
1,3-Dichloropropane	mg/kg (ppm)	2.5	<0.02	94	91	29-125	3
Tetrachloroethene	mg/kg (ppm)	2.5	<0.026	90	89	27-110	1
Dibromochloromethane	mg/kg (ppm)	2.5	<0.026	93	96	32-143	3
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2.5	<0.03	109	110	32-126	1
Chlorobenzene	mg/kg (ppm)	2.5	<0.014	91	90	37-113	1
Ethylbenzene	mg/kg (ppm)	2.5	<0.013	92	90	38-111	2
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	2.5	<0.028	106	111	35-126	5
m,p-Xylene	mg/kg (ppm)	5	<0.03	93	92	38-112	1
o-Xylene	mg/kg (ppm)	2.5	<0.034	93	92	38-113	1
Styrene	mg/kg (ppm)	2.5	<0.022	94	93	38-118	1
Isopropylbenzene	mg/kg (ppm)	2.5	<0.019	94	93	37-114	1
Bromoform	mg/kg (ppm)	2.5	<0.034	96	99	18-155	3
n-Propylbenzene	mg/kg (ppm)	2.5	<0.017	94	92	36-114	2
Bromobenzene	mg/kg (ppm)	2.5	<0.012	91	89	40-115	2
1,3,5-Trimethylbenzene	mg/kg (ppm)	2.5	<0.011	97	95	35-116	2
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	2.5	<0.036	98	98	33-128	0
1,2,3-Trichloropropane	mg/kg (ppm)	2.5	<0.022	93	92	33-123	1
2-Chlorotoluene	mg/kg (ppm)	2.5	<0.016	91	90	39-110	1
4-Chlorotoluene	mg/kg (ppm)	2.5	<0.019	93	92	39-111	1
tert-Butylbenzene	mg/kg (ppm)	2.5	<0.022	96	94	36-116	2
1,2,4-Trimethylbenzene	mg/kg (ppm)	2.5	<0.016	95	94	35-116	1
sec-Butylbenzene	mg/kg (ppm)	2.5	<0.015	96	95	33-118	1
p-Isopropyltoluene	mg/kg (ppm)	2.5	<0.012	96	94	32-119	2
1,3-Dichlorobenzene	mg/kg (ppm)	2.5	<0.02	92	91	38-111	1
1,4-Dichlorobenzene	mg/kg (ppm)	2.5	<0.032	91	91	39-109	0
1,2-Dichlorobenzene	mg/kg (ppm)	2.5	<0.016	91	90	40-111	1
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	2.5	<0.08	95	100	34-134	5
1,2,4-Trichlorobenzene	mg/kg (ppm)	2.5	<0.036	86	87	31-117	1
Hexachlorobutadiene	mg/kg (ppm)	2.5	<0.04	85	86	25-122	1
Naphthalene	mg/kg (ppm)	2.5	<0.024	92	92	39-120	0
1,2,3-Trichlorobenzene	mg/kg (ppm)	2.5	<0.019	83	84	35-117	1

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Dichlorodifluoromethane	mg/kg (ppm)	2.5	43	10-76
Chloromethane	mg/kg (ppm)	2.5	70	34-98
Vinyl chloride	mg/kg (ppm)	2.5	76	42-107
Bromomethane	mg/kg (ppm)	2.5	106	46-113
Chloroethane	mg/kg (ppm)	2.5	86	47-115
Trichlorofluoromethane	mg/kg (ppm)	2.5	90	53-112
Acetone	mg/kg (ppm)	12.5	121	39-147
1,1-Dichloroethene	mg/kg (ppm)	2.5	90	65-110
Methylene chloride	mg/kg (ppm)	2.5	106	62-119
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2.5	103	72-122
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	96	71-113
1,1-Dichloroethane	mg/kg (ppm)	2.5	98	76-109
2,2-Dichloropropane	mg/kg (ppm)	2.5	115	64-151
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	97	77-110
Chloroform	mg/kg (ppm)	2.5	98	78-108
2-Butanone (MEK)	mg/kg (ppm)	12.5	110	60-121
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	97	80-109
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	109	72-116
1,1-Dichloropropene	mg/kg (ppm)	2.5	96	77-108
Carbon tetrachloride	mg/kg (ppm)	2.5	121	67-123
Benzene	mg/kg (ppm)	2.5	95	75-107
Trichloroethene	mg/kg (ppm)	2.5	96	72-107
1,2-Dichloropropane	mg/kg (ppm)	2.5	101	78-111
Bromodichloromethane	mg/kg (ppm)	2.5	111	75-126
Dibromomethane	mg/kg (ppm)	2.5	103	80-111
4-Methyl-2-pentanone	mg/kg (ppm)	12.5	109	80-128
cis-1,3-Dichloropropene	mg/kg (ppm)	2.5	120	71-138
Toluene	mg/kg (ppm)	2.5	96	79-112
trans-1,3-Dichloropropene	mg/kg (ppm)	2.5	111	77-135
1,1,2-Trichloroethane	mg/kg (ppm)	2.5	102	84-115
2-Hexanone	mg/kg (ppm)	12.5	110	71-129
1,3-Dichloropropane	mg/kg (ppm)	2.5	99	82-113
Tetrachloroethene	mg/kg (ppm)	2.5	94	77-110
Dibromochloromethane	mg/kg (ppm)	2.5	111	64-152
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2.5	123 vo	83-116
Chlorobenzene	mg/kg (ppm)	2.5	97	82-113
Ethylbenzene	mg/kg (ppm)	2.5	97	81-114
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	2.5	126 vo	76-125
m,p-Xylene	mg/kg (ppm)	5	99	82-115
o-Xylene	mg/kg (ppm)	2.5	99	81-116
Styrene	mg/kg (ppm)	2.5	100	81-118
Isopropylbenzene	mg/kg (ppm)	2.5	99	81-117
Bromoform	mg/kg (ppm)	2.5	113	50-174
n-Propylbenzene	mg/kg (ppm)	2.5	100	82-116
Bromobenzene	mg/kg (ppm)	2.5	97	82-118
1,3,5-Trimethylbenzene	mg/kg (ppm)	2.5	103	83-120
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	2.5	108	83-125
1,2,3-Trichloropropane	mg/kg (ppm)	2.5	99	79-116
2-Chlorotoluene	mg/kg (ppm)	2.5	97	80-114
4-Chlorotoluene	mg/kg (ppm)	2.5	99	82-114
tert-Butylbenzene	mg/kg (ppm)	2.5	102	82-116
1,2,4-Trimethylbenzene	mg/kg (ppm)	2.5	102	82-116
sec-Butylbenzene	mg/kg (ppm)	2.5	103	81-123
p-Isopropyltoluene	mg/kg (ppm)	2.5	103	82-124
1,3-Dichlorobenzene	mg/kg (ppm)	2.5	98	80-118
1,4-Dichlorobenzene	mg/kg (ppm)	2.5	97	79-117
1,2-Dichlorobenzene	mg/kg (ppm)	2.5	97	80-118
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	2.5	114	71-131
1,2,4-Trichlorobenzene	mg/kg (ppm)	2.5	96	75-122
Hexachlorobutadiene	mg/kg (ppm)	2.5	91	74-130
Naphthalene	mg/kg (ppm)	2.5	100	83-128
1,2,3-Trichlorobenzene	mg/kg (ppm)	2.5	92	80-126

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 306247-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Dichlorodifluoromethane	ug/L (ppb)	50	<0.16	105	55-144
Chloromethane	ug/L (ppb)	50	<0.22	104	67-131
Vinyl chloride	ug/L (ppb)	50	0.52	106	61-139
Bromomethane	ug/L (ppb)	50	<0.2	635 vo	66-129
Chloroethane	ug/L (ppb)	50	<0.18	191 vo	68-126
Trichlorofluoromethane	ug/L (ppb)	50	<0.17	136 vo	71-128
Acetone	ug/L (ppb)	250	<2.6	109	48-149
1,1-Dichloroethene	ug/L (ppb)	50	<0.19	105	71-123
Methylene chloride	ug/L (ppb)	50	<3	101	61-126
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	<0.13	106	68-125
trans-1,2-Dichloroethene	ug/L (ppb)	50	<0.24	104	72-122
1,1-Dichloroethane	ug/L (ppb)	50	<0.18	103	79-113
2,2-Dichloropropane	ug/L (ppb)	50	<0.3	119	58-132
cis-1,2-Dichloroethene	ug/L (ppb)	50	3.6	102	73-119
Chloroform	ug/L (ppb)	50	<0.24	100	80-112
2-Butanone (MEK)	ug/L (ppb)	250	<0.94	105	69-123
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<0.11	100	78-113
1,1,1-Trichloroethane	ug/L (ppb)	50	<0.2	113	79-116
1,1-Dichloropropene	ug/L (ppb)	50	<0.26	99	67-121
Carbon tetrachloride	ug/L (ppb)	50	<0.24	128 vo	72-123
Benzene	ug/L (ppb)	50	<0.13	98	79-109
Trichloroethene	ug/L (ppb)	50	1.4	100	75-109
1,2-Dichloropropane	ug/L (ppb)	50	<0.32	101	80-111
Bromodichloromethane	ug/L (ppb)	50	<0.38	116	78-117
Dibromomethane	ug/L (ppb)	50	<0.28	106	80-112
4-Methyl-2-pentanone	ug/L (ppb)	250	<1.3	111	79-123
cis-1,3-Dichloropropene	ug/L (ppb)	50	<0.2	116	76-120
Toluene	ug/L (ppb)	50	<0.13	96	73-117
trans-1,3-Dichloropropene	ug/L (ppb)	50	<0.34	105	75-122
1,1,2-Trichloroethane	ug/L (ppb)	50	<0.28	102	81-111
2-Hexanone	ug/L (ppb)	250	<1	111	75-126
1,3-Dichloropropane	ug/L (ppb)	50	<0.2	100	81-111
Tetrachloroethene	ug/L (ppb)	50	<0.28	97	72-113
Dibromochloromethane	ug/L (ppb)	50	<0.24	113	69-129
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	<0.24	124 vo	83-114
Chlorobenzene	ug/L (ppb)	50	<0.1	98	75-115
Ethylbenzene	ug/L (ppb)	50	<0.16	98	71-120
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	<0.32	128 vo	78-122
m,p-Xylene	ug/L (ppb)	100	<0.5	100	63-128
o-Xylene	ug/L (ppb)	50	<0.22	100	64-129
Styrene	ug/L (ppb)	50	<0.22	101	70-122
Isopropylbenzene	ug/L (ppb)	50	<0.15	101	76-118
Bromoform	ug/L (ppb)	50	<0.22	117	49-138
n-Propylbenzene	ug/L (ppb)	50	<0.14	99	74-117
Bromobenzene	ug/L (ppb)	50	<0.18	98	70-121
1,3,5-Trimethylbenzene	ug/L (ppb)	50	<0.18	102	81-112
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	<0.24	109	79-120
1,2,3-Trichloropropane	ug/L (ppb)	50	<0.28	101	72-119
2-Chlorotoluene	ug/L (ppb)	50	<0.13	97	77-114
4-Chlorotoluene	ug/L (ppb)	50	<0.16	98	81-109
tert-Butylbenzene	ug/L (ppb)	50	<0.15	101	81-116
1,2,4-Trimethylbenzene	ug/L (ppb)	50	<0.11	101	74-118
sec-Butylbenzene	ug/L (ppb)	50	<0.12	101	77-118
p-Isopropyltoluene	ug/L (ppb)	50	<0.15	101	64-132
1,3-Dichlorobenzene	ug/L (ppb)	50	<0.15	97	81-111
1,4-Dichlorobenzene	ug/L (ppb)	50	<0.094	97	78-110
1,2-Dichlorobenzene	ug/L (ppb)	50	<0.13	97	81-111
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	<0.44	112	69-129
1,2,4-Trichlorobenzene	ug/L (ppb)	50	<0.34	94	74-115
Hexachlorobutadiene	ug/L (ppb)	50	<0.46	89	67-120
Naphthalene	ug/L (ppb)	50	<0.28	102	63-136
1,2,3-Trichlorobenzene	ug/L (ppb)	50	<0.38	90	79-115

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	ug/L (ppb)	50	100	104	54-149	4
Chloromethane	ug/L (ppb)	50	97	102	67-133	5
Vinyl chloride	ug/L (ppb)	50	98	103	73-132	5
Bromomethane	ug/L (ppb)	50	604 vo	614 vo	69-123	2
Chloroethane	ug/L (ppb)	50	175 vo	186 vo	68-126	6
Trichlorofluoromethane	ug/L (ppb)	50	123	132	70-132	7
Acetone	ug/L (ppb)	250	102	110	44-145	8
1,1-Dichloroethene	ug/L (ppb)	50	100	106	75-119	6
Methylene chloride	ug/L (ppb)	50	98	104	63-132	6
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	91	98	70-122	7
trans-1,2-Dichloroethene	ug/L (ppb)	50	98	104	76-118	6
1,1-Dichloroethane	ug/L (ppb)	50	96	102	80-116	6
2,2-Dichloropropane	ug/L (ppb)	50	111	125	62-141	12
cis-1,2-Dichloroethene	ug/L (ppb)	50	95	100	81-111	5
Chloroform	ug/L (ppb)	50	118 vo	124 vo	81-109	5
2-Butanone (MEK)	ug/L (ppb)	250	98	101	53-140	3
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	93	98	79-109	5
1,1,1-Trichloroethane	ug/L (ppb)	50	106	113	80-116	6
1,1-Dichloropropene	ug/L (ppb)	50	94	99	78-112	5
Carbon tetrachloride	ug/L (ppb)	50	128	136 vo	72-128	6
Benzene	ug/L (ppb)	50	93	96	81-108	3
Trichloroethene	ug/L (ppb)	50	94	99	77-108	5
1,2-Dichloropropane	ug/L (ppb)	50	96	101	82-109	5
Bromodichloromethane	ug/L (ppb)	50	116	121 vo	76-120	4
Dibromomethane	ug/L (ppb)	50	100	105	80-110	5
4-Methyl-2-pentanone	ug/L (ppb)	250	104	110	59-142	6
cis-1,3-Dichloropropene	ug/L (ppb)	50	113	120	76-128	6
Toluene	ug/L (ppb)	50	92	96	83-108	4
trans-1,3-Dichloropropene	ug/L (ppb)	50	104	108	76-128	4
1,1,2-Trichloroethane	ug/L (ppb)	50	97	101	82-110	4
2-Hexanone	ug/L (ppb)	250	99	105	53-145	6
1,3-Dichloropropane	ug/L (ppb)	50	94	99	83-110	5
Tetrachloroethene	ug/L (ppb)	50	91	94	78-109	3
Dibromochloromethane	ug/L (ppb)	50	118	123	63-140	4
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	118 vo	124 vo	85-113	5
Chlorobenzene	ug/L (ppb)	50	92	96	84-108	4
Ethylbenzene	ug/L (ppb)	50	93	97	84-110	4
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	128 vo	135 vo	76-125	5
m,p-Xylene	ug/L (ppb)	100	95	99	84-112	4
o-Xylene	ug/L (ppb)	50	94	100	82-113	6
Styrene	ug/L (ppb)	50	96	101	84-116	5
Isopropylbenzene	ug/L (ppb)	50	95	100	81-122	5
Bromoform	ug/L (ppb)	50	127	130	40-161	2
n-Propylbenzene	ug/L (ppb)	50	95	99	81-115	4
Bromobenzene	ug/L (ppb)	50	93	96	80-113	3
1,3,5-Trimethylbenzene	ug/L (ppb)	50	97	102	83-117	5
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	105	110	79-118	5
1,2,3-Trichloropropane	ug/L (ppb)	50	96	100	74-116	4
2-Chlorotoluene	ug/L (ppb)	50	94	97	79-112	3
4-Chlorotoluene	ug/L (ppb)	50	94	98	81-113	4
tert-Butylbenzene	ug/L (ppb)	50	97	101	81-119	4
1,2,4-Trimethylbenzene	ug/L (ppb)	50	96	100	83-116	4
sec-Butylbenzene	ug/L (ppb)	50	97	102	83-116	5
p-Isopropyltoluene	ug/L (ppb)	50	98	102	82-119	4
1,3-Dichlorobenzene	ug/L (ppb)	50	92	97	83-111	5
1,4-Dichlorobenzene	ug/L (ppb)	50	92	95	82-109	3
1,2-Dichlorobenzene	ug/L (ppb)	50	92	96	83-111	4
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	124	125	62-133	1
1,2,4-Trichlorobenzene	ug/L (ppb)	50	93	95	77-117	2
Hexachlorobutadiene	ug/L (ppb)	50	89	95	74-118	7
Naphthalene	ug/L (ppb)	50	98	102	75-131	4
1,2,3-Trichlorobenzene	ug/L (ppb)	50	91	94	82-115	3

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270D

Laboratory Code: 306269-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Phenol	mg/kg (ppm)	1.7	<0.3	82	66	50-150	22 vo
Bis(2-chloroethyl) ether	mg/kg (ppm)	1.7	<0.03	74	90	50-150	20
2-Chlorophenol	mg/kg (ppm)	1.7	<0.3	82	63	50-150	26 vo
1,3-Dichlorobenzene	mg/kg (ppm)	1.7	<0.03	61	62	50-150	2
1,4-Dichlorobenzene	mg/kg (ppm)	1.7	<0.03	64	67	50-150	5
1,2-Dichlorobenzene	mg/kg (ppm)	1.7	<0.03	68	65	50-150	5
Benzyl alcohol	mg/kg (ppm)	1.7	<0.3	58	37 vo	50-150	44 vo
Bis(2-chloroisopropyl) ether	mg/kg (ppm)	1.7	<0.03	68	60	50-150	12
2-Methylphenol	mg/kg (ppm)	1.7	<0.3	65	46 vo	50-150	34 vo
Hexachloroethane	mg/kg (ppm)	1.7	<0.03	62	63	50-150	2
N-Nitroso-di-n-propylamine	mg/kg (ppm)	1.7	<0.03	78	59	50-150	28 vo
3-Methylphenol + 4-Methylphenol	mg/kg (ppm)	1.7	<0.6	79	58	50-150	31 vo
Nitrobenzene	mg/kg (ppm)	1.7	<0.03	76	67	50-150	13
Isophorone	mg/kg (ppm)	1.7	<0.03	76	68	50-150	11
2-Nitrophenol	mg/kg (ppm)	1.7	<0.3	86	74	50-150	15
2,4-Dimethylphenol	mg/kg (ppm)	1.7	<0.3	63	55	50-150	14
Benzoic acid	mg/kg (ppm)	2.5	<1.5	76	22 vo	50-150	110 vo
Bis(2-chloroethoxy)methane	mg/kg (ppm)	1.7	<0.03	74	67	50-150	10
2,4-Dichlorophenol	mg/kg (ppm)	1.7	<0.3	84	65	50-150	26 vo
1,2,4-Trichlorobenzene	mg/kg (ppm)	1.7	<0.03	74	71	50-150	4
Hexachlorobutadiene	mg/kg (ppm)	1.7	<0.03	71	73	50-150	3
4-Chloroaniline	mg/kg (ppm)	3.3	<3	63	53	50-150	17
4-Chloro-3-methylphenol	mg/kg (ppm)	1.7	<0.3	86	63	50-150	31 vo
2-Methylnaphthalene	mg/kg (ppm)	1.7	<0.03	75	63	50-150	17
Hexachlorocyclopentadiene	mg/kg (ppm)	1.7	<0.09	70	52	50-150	30 vo
2,4,6-Trichlorophenol	mg/kg (ppm)	1.7	<0.3	81	67	50-150	19
2,4,5-Trichlorophenol	mg/kg (ppm)	1.7	<0.3	88	74	50-150	17
2-Chloronaphthalene	mg/kg (ppm)	1.7	<0.03	78	72	50-150	8
2-Nitroaniline	mg/kg (ppm)	1.7	<0.03	87	72	50-150	19
Dimethyl phthalate	mg/kg (ppm)	1.7	<0.03	86	73	50-150	16
2,6-Dinitrotoluene	mg/kg (ppm)	1.7	<0.03	92	77	50-150	18
3-Nitroaniline	mg/kg (ppm)	3.3	<3	71	62	50-150	14
2,4-Dinitrophenol	mg/kg (ppm)	1.7	<0.9	95	38 vo	50-150	86 vo
Dibenzofuran	mg/kg (ppm)	1.7	<0.03	83	73	50-150	13
2,4-Dinitrotoluene	mg/kg (ppm)	1.7	<0.03	88	69	50-150	24 vo
4-Nitrophenol	mg/kg (ppm)	1.7	<0.9	82	68	50-150	19
Diethyl phthalate	mg/kg (ppm)	1.7	<0.03	84	73	50-150	14
4-Chlorophenyl phenyl ether	mg/kg (ppm)	1.7	<0.03	82	71	50-150	14
N-Nitrosodiphenylamine	mg/kg (ppm)	1.7	<0.03	80	72	50-150	11
4-Nitroaniline	mg/kg (ppm)	3.3	<3	77	63	50-150	20
4,6-Dinitro-2-methylphenol	mg/kg (ppm)	1.7	<0.9	98	57	50-150	53 vo
4-Bromophenyl phenyl ether	mg/kg (ppm)	1.7	<0.03	85	75	50-150	12
Hexachlorobenzene	mg/kg (ppm)	1.7	<0.03	82	73	50-150	12
Pentachlorophenol	mg/kg (ppm)	1.7	<0.3	88	59	50-150	39 vo
Carbazole	mg/kg (ppm)	1.7	<0.03	84	75	50-150	11
Di-n-butyl phthalate	mg/kg (ppm)	1.7	<0.03	87	80	50-150	8
Benzyl butyl phthalate	mg/kg (ppm)	1.7	<0.03	93	83	50-150	11
Bis(2-ethylhexyl) phthalate	mg/kg (ppm)	1.7	<0.48	86	81	50-150	6
Di-n-octyl phthalate	mg/kg (ppm)	1.7	<0.03	92	87 J	50-150	6

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270D

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Phenol	mg/kg (ppm)	1.7	83	83	51-119	0
Bis(2-chloroethyl) ether	mg/kg (ppm)	1.7	83	82	60-112	1
2-Chlorophenol	mg/kg (ppm)	1.7	88	90	59-114	2
1,3-Dichlorobenzene	mg/kg (ppm)	1.7	85	87	62-113	2
1,4-Dichlorobenzene	mg/kg (ppm)	1.7	87	89	61-114	2
1,2-Dichlorobenzene	mg/kg (ppm)	1.7	87	89	61-113	2
Benzyl alcohol	mg/kg (ppm)	1.7	86	86	50-119	0
Bis(2-chloroisopropyl) ether	mg/kg (ppm)	1.7	77	81	59-113	5
2-Methylphenol	mg/kg (ppm)	1.7	85	82	58-115	4
Hexachloroethane	mg/kg (ppm)	1.7	85	88	63-114	3
N-Nitroso-di-n-propylamine	mg/kg (ppm)	1.7	86	87	62-114	1
3-Methylphenol + 4-Methylphenol	mg/kg (ppm)	1.7	86	86	54-120	0
Nitrobenzene	mg/kg (ppm)	1.7	85	89	59-114	5
Isophorone	mg/kg (ppm)	1.7	87	92	61-113	6
2-Nitrophenol	mg/kg (ppm)	1.7	95	101	59-114	6
2,4-Dimethylphenol	mg/kg (ppm)	1.7	79	81	54-107	2
Benzoic acid	mg/kg (ppm)	2.5	105	100	43-150	5
Bis(2-chloroethoxy)methane	mg/kg (ppm)	1.7	85	91	60-114	7
2,4-Dichlorophenol	mg/kg (ppm)	1.7	91	95	57-118	4
1,2,4-Trichlorobenzene	mg/kg (ppm)	1.7	87	92	56-112	6
Hexachlorobutadiene	mg/kg (ppm)	1.7	87	94	60-116	8
4-Chloroaniline	mg/kg (ppm)	3.3	59	73	10-126	21 vo
4-Chloro-3-methylphenol	mg/kg (ppm)	1.7	93	93	59-115	0
2-Methylnaphthalene	mg/kg (ppm)	1.7	84	89	60-115	6
Hexachlorocyclopentadiene	mg/kg (ppm)	1.7	80	76	41-107	5
2,4,6-Trichlorophenol	mg/kg (ppm)	1.7	89	91	47-119	2
2,4,5-Trichlorophenol	mg/kg (ppm)	1.7	98	98	61-121	0
2-Chloronaphthalene	mg/kg (ppm)	1.7	88	92	58-114	4
2-Nitroaniline	mg/kg (ppm)	1.7	95	95	55-119	0
Dimethyl phthalate	mg/kg (ppm)	1.7	92	96	58-116	4
2,6-Dinitrotoluene	mg/kg (ppm)	1.7	101	102	57-119	1
3-Nitroaniline	mg/kg (ppm)	3.3	79	83	10-143	5
2,4-Dinitrophenol	mg/kg (ppm)	1.7	97	83	40-122	16
Dibenzofuran	mg/kg (ppm)	1.7	91	93	56-115	2
2,4-Dinitrotoluene	mg/kg (ppm)	1.7	94	95	53-126	1
4-Nitrophenol	mg/kg (ppm)	1.7	85	82	40-124	4
Diethyl phthalate	mg/kg (ppm)	1.7	91	93	57-116	2
4-Chlorophenyl phenyl ether	mg/kg (ppm)	1.7	89	92	54-119	3
N-Nitrosodiphenylamine	mg/kg (ppm)	1.7	87	91	54-113	4
4-Nitroaniline	mg/kg (ppm)	3.3	87	89	47-109	2
4,6-Dinitro-2-methylphenol	mg/kg (ppm)	1.7	99	90	57-108	10
4-Bromophenyl phenyl ether	mg/kg (ppm)	1.7	92	96	56-116	4
Hexachlorobenzene	mg/kg (ppm)	1.7	92	92	57-115	0
Pentachlorophenol	mg/kg (ppm)	1.7	90	86	45-123	5
Carbazole	mg/kg (ppm)	1.7	90	90	57-116	0
Di-n-butyl phthalate	mg/kg (ppm)	1.7	94	96	56-118	2
Benzyl butyl phthalate	mg/kg (ppm)	1.7	97	101	56-122	4
Bis(2-ethylhexyl) phthalate	mg/kg (ppm)	1.7	93	96	56-125	3
Di-n-octyl phthalate	mg/kg (ppm)	1.7	99	103	58-120	4

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270D

Laboratory Code: 306220-17 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Phenol	mg/kg (ppm)	1.7	<0.0054	64	62	50-150	3
Bis(2-chloroethyl) ether	mg/kg (ppm)	1.7	<0.0016	55	61	50-150	10
2-Chlorophenol	mg/kg (ppm)	1.7	<0.0062	61	66	50-150	8
1,3-Dichlorobenzene	mg/kg (ppm)	1.7	<0.0026	46 vo	63	50-150	31 vo
1,4-Dichlorobenzene	mg/kg (ppm)	1.7	<0.0024	46 vo	64	50-150	33 vo
1,2-Dichlorobenzene	mg/kg (ppm)	1.7	<0.004	49 vo	64	50-150	27 vo
Benzyl alcohol	mg/kg (ppm)	1.7	0.022	62	69	50-150	11
Bis(2-chloroisopropyl) ether	mg/kg (ppm)	1.7	<0.0016	50	59	50-150	17
2-Methylphenol	mg/kg (ppm)	1.7	<0.0064	61	61	50-150	0
Hexachloroethane	mg/kg (ppm)	1.7	<0.0034	36 vo	62	50-150	53 vo
N-Nitroso-di-n-propylamine	mg/kg (ppm)	1.7	<0.003	57	60	50-150	5
3-Methylphenol + 4-Methylphenol	mg/kg (ppm)	1.7	<0.014	62	62	50-150	0
Nitrobenzene	mg/kg (ppm)	1.7	<0.0026	58	68	50-150	16
Isophorone	mg/kg (ppm)	1.7	<0.0012	64	72	50-150	12
2-Nitrophenol	mg/kg (ppm)	1.7	<0.0082	60	75	50-150	22 vo
2,4-Dimethylphenol	mg/kg (ppm)	1.7	<0.019	56	58	50-150	4
Benzoic acid	mg/kg (ppm)	2.5	<0.055	17 vo	31 vo	50-150	58 vo
Bis(2-chloroethoxy)methane	mg/kg (ppm)	1.7	<0.0014	61	71	50-150	15
2,4-Dichlorophenol	mg/kg (ppm)	1.7	<0.0058	68	72	50-150	6
1,2,4-Trichlorobenzene	mg/kg (ppm)	1.7	<0.0034	57	71	50-150	22 vo
Hexachlorobutadiene	mg/kg (ppm)	1.7	<0.002	53	72	50-150	30 vo
4-Chloroaniline	mg/kg (ppm)	3.3	<0.18	56	57	50-150	2
4-Chloro-3-methylphenol	mg/kg (ppm)	1.7	<0.0044	72	72	50-150	0
2-Methylnaphthalene	mg/kg (ppm)	1.7	<0.001	59	68	50-150	14
Hexachlorocyclopentadiene	mg/kg (ppm)	1.7	<0.0022	19 vo	75	50-150	119 vo
2,4,6-Trichlorophenol	mg/kg (ppm)	1.7	<0.008	71	77	50-150	8
2,4,5-Trichlorophenol	mg/kg (ppm)	1.7	<0.0096	73	77	50-150	5
2-Chloronaphthalene	mg/kg (ppm)	1.7	<0.0014	65	77	50-150	17
2-Nitroaniline	mg/kg (ppm)	1.7	<0.0026	75	76	50-150	1
Dimethyl phthalate	mg/kg (ppm)	1.7	<0.0012	77	84	50-150	9
2,6-Dinitrotoluene	mg/kg (ppm)	1.7	0.027	45 vo	52	50-150	14
3-Nitroaniline	mg/kg (ppm)	3.3	<0.017	60	58	50-150	3
2,4-Dinitrophenol	mg/kg (ppm)	1.7	<0.014	8 vo	53	50-150	148 vo
Dibenzofuran	mg/kg (ppm)	1.7	<0.001	70	78	50-150	11
2,4-Dinitrotoluene	mg/kg (ppm)	1.7	<0.0016	78	84	50-150	7
4-Nitrophenol	mg/kg (ppm)	1.7	<0.018	55	63	50-150	14
Diethyl phthalate	mg/kg (ppm)	1.7	<0.004	75	80	50-150	6
4-Chlorophenyl phenyl ether	mg/kg (ppm)	1.7	<0.0016	72	79	50-150	9
N-Nitrosodiphenylamine	mg/kg (ppm)	1.7	<0.001	73	81	50-150	10
4-Nitroaniline	mg/kg (ppm)	3.3	<0.018	64	66	50-150	3
4,6-Dinitro-2-methylphenol	mg/kg (ppm)	1.7	<0.011	21 vo	76	50-150	113 vo
4-Bromophenyl phenyl ether	mg/kg (ppm)	1.7	<0.0016	76	86	50-150	12
Hexachlorobenzene	mg/kg (ppm)	1.7	<0.001	76	87	50-150	13
Pentachlorophenol	mg/kg (ppm)	1.7	<0.0062	64	72	50-150	12
Carbazole	mg/kg (ppm)	1.7	<0.002	66	74	50-150	11
Di-n-butyl phthalate	mg/kg (ppm)	1.7	<0.02	69	77	50-150	11
Benzyl butyl phthalate	mg/kg (ppm)	1.7	<0.0058	82	83	50-150	1
Bis(2-ethylhexyl) phthalate	mg/kg (ppm)	1.7	<0.013	75	80	50-150	6
Di-n-octyl phthalate	mg/kg (ppm)	1.7	<0.0034	83	88	50-150	6

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270D

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Phenol	mg/kg (ppm)	1.7	85	83	51-119	2
Bis(2-chloroethyl) ether	mg/kg (ppm)	1.7	84	81	60-112	4
2-Chlorophenol	mg/kg (ppm)	1.7	88	85	59-114	3
1,3-Dichlorobenzene	mg/kg (ppm)	1.7	84	80	62-113	5
1,4-Dichlorobenzene	mg/kg (ppm)	1.7	83	79	61-114	5
1,2-Dichlorobenzene	mg/kg (ppm)	1.7	86	82	61-113	5
Benzyl alcohol	mg/kg (ppm)	1.7	89	87	50-119	2
Bis(2-chloroisopropyl) ether	mg/kg (ppm)	1.7	80	77	59-113	4
2-Methylphenol	mg/kg (ppm)	1.7	78	81	58-115	4
Hexachloroethane	mg/kg (ppm)	1.7	82	78	63-114	5
N-Nitroso-di-n-propylamine	mg/kg (ppm)	1.7	88	85	62-114	3
3-Methylphenol + 4-Methylphenol	mg/kg (ppm)	1.7	82	81	54-120	1
Nitrobenzene	mg/kg (ppm)	1.7	83	81	59-114	2
Isophorone	mg/kg (ppm)	1.7	86	84	61-113	2
2-Nitrophenol	mg/kg (ppm)	1.7	94	90	59-114	4
2,4-Dimethylphenol	mg/kg (ppm)	1.7	39 vo	56	54-107	36 vo
Benzoic acid	mg/kg (ppm)	2.5	92	94	43-150	2
Bis(2-chloroethoxy)methane	mg/kg (ppm)	1.7	82	80	60-114	2
2,4-Dichlorophenol	mg/kg (ppm)	1.7	88	88	57-118	0
1,2,4-Trichlorobenzene	mg/kg (ppm)	1.7	86	83	56-112	4
Hexachlorobutadiene	mg/kg (ppm)	1.7	86	84	60-116	2
4-Chloroaniline	mg/kg (ppm)	3.3	45	46	10-126	2
4-Chloro-3-methylphenol	mg/kg (ppm)	1.7	89	90	59-115	1
2-Methylnaphthalene	mg/kg (ppm)	1.7	83	82	60-115	1
Hexachlorocyclopentadiene	mg/kg (ppm)	1.7	94	92	41-107	2
2,4,6-Trichlorophenol	mg/kg (ppm)	1.7	93	94	47-119	1
2,4,5-Trichlorophenol	mg/kg (ppm)	1.7	92	92	61-121	0
2-Chloronaphthalene	mg/kg (ppm)	1.7	89	88	58-114	1
2-Nitroaniline	mg/kg (ppm)	1.7	96	95	55-119	1
Dimethyl phthalate	mg/kg (ppm)	1.7	92	94	58-116	2
2,6-Dinitrotoluene	mg/kg (ppm)	1.7	99	100	57-119	1
3-Nitroaniline	mg/kg (ppm)	3.3	73	74	10-143	1
2,4-Dinitrophenol	mg/kg (ppm)	1.7	76	72	40-122	5
Dibenzofuran	mg/kg (ppm)	1.7	88	89	56-115	1
2,4-Dinitrotoluene	mg/kg (ppm)	1.7	100	102	53-126	2
4-Nitrophenol	mg/kg (ppm)	1.7	93	92	40-124	1
Diethyl phthalate	mg/kg (ppm)	1.7	92	93	57-116	1
4-Chlorophenyl phenyl ether	mg/kg (ppm)	1.7	88	89	54-119	1
N-Nitrosodiphenylamine	mg/kg (ppm)	1.7	84	85	54-113	1
4-Nitroaniline	mg/kg (ppm)	3.3	87	85	47-109	2
4,6-Dinitro-2-methylphenol	mg/kg (ppm)	1.7	76	73	57-108	4
4-Bromophenyl phenyl ether	mg/kg (ppm)	1.7	91	91	56-116	0
Hexachlorobenzene	mg/kg (ppm)	1.7	92	92	57-115	0
Pentachlorophenol	mg/kg (ppm)	1.7	94	95	45-123	1
Carbazole	mg/kg (ppm)	1.7	86	85	57-116	1
Di-n-butyl phthalate	mg/kg (ppm)	1.7	84	85	56-118	1
Benzyl butyl phthalate	mg/kg (ppm)	1.7	102	102	56-122	0
Bis(2-ethylhexyl) phthalate	mg/kg (ppm)	1.7	97	99	56-125	2
Di-n-octyl phthalate	mg/kg (ppm)	1.7	96	98	58-120	2

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR PNA'S BY EPA METHOD 8270D SIM

Laboratory Code: 306269-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.17	<0.00022	48	68	44-129	34 vo
Acenaphthylene	mg/kg (ppm)	0.17	<0.000091	66	76	52-121	14
Acenaphthene	mg/kg (ppm)	0.17	<0.00014	64	75	51-123	16
Fluorene	mg/kg (ppm)	0.17	<0.00015	74	82	37-137	10
Phenanthrene	mg/kg (ppm)	0.17	<0.00032	70	75	45-124	7
Anthracene	mg/kg (ppm)	0.17	<0.000088	71	76	32-124	7
Fluoranthene	mg/kg (ppm)	0.17	0.00028	72	77	50-125	7
Pyrene	mg/kg (ppm)	0.17	0.00032	77	83	41-135	7
Benz(a)anthracene	mg/kg (ppm)	0.17	0.00025	70	74	23-144	6
Chrysene	mg/kg (ppm)	0.17	0.00025	73	80	45-122	9
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	0.00036	65	71	31-144	9
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	<0.00036	65	73	45-130	12
Benzo(a)pyrene	mg/kg (ppm)	0.17	0.00025	59	66	39-128	11
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	<0.00062	65	67	28-146	3
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	<0.00034	61	67	46-129	9
Benzo(g,h,i)perylene	mg/kg (ppm)	0.17	<0.00034	61	62	37-133	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.17	74	76	58-121	3
Acenaphthylene	mg/kg (ppm)	0.17	78	87	54-121	11
Acenaphthene	mg/kg (ppm)	0.17	76	86	54-123	12
Fluorene	mg/kg (ppm)	0.17	75	91	56-127	19
Phenanthrene	mg/kg (ppm)	0.17	84	88	55-122	5
Anthracene	mg/kg (ppm)	0.17	81	86	50-120	6
Fluoranthene	mg/kg (ppm)	0.17	80	97	54-129	19
Pyrene	mg/kg (ppm)	0.17	97	96	53-127	1
Benz(a)anthracene	mg/kg (ppm)	0.17	82	89	51-115	8
Chrysene	mg/kg (ppm)	0.17	92	94	55-129	2
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	83	90	56-123	8
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	81	81	54-131	0
Benzo(a)pyrene	mg/kg (ppm)	0.17	68	74	51-118	8
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	77	85	49-148	10
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	75	81	50-141	8
Benzo(g,h,i)perylene	mg/kg (ppm)	0.17	73	79	52-131	8

Date of Report: 07/22/13
Date Received: 06/12/13
Project: Crowley RIFS 101.00205.00019, F&BI 306191

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR PNA'S BY EPA METHOD 8270D SIM

Laboratory Code: 306220-06 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.17	<0.00022	66	54	44-129	20
Acenaphthylene	mg/kg (ppm)	0.17	<0.000091	72	61	52-121	17
Acenaphthene	mg/kg (ppm)	0.17	<0.00014	70	59	51-123	17
Fluorene	mg/kg (ppm)	0.17	<0.00015	74	64	37-137	14
Phenanthrene	mg/kg (ppm)	0.17	<0.00032	75	67	45-124	11
Anthracene	mg/kg (ppm)	0.17	<0.000088	73	65	32-124	12
Fluoranthene	mg/kg (ppm)	0.17	<0.00028	75	71	50-125	5
Pyrene	mg/kg (ppm)	0.17	<0.00026	80	72	41-135	11
Benz(a)anthracene	mg/kg (ppm)	0.17	<0.00018	73	68	23-144	7
Chrysene	mg/kg (ppm)	0.17	<0.00019	78	72	45-122	8
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	<0.00018	69	66	31-144	4
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	<0.00036	63	61	45-130	3
Benzo(a)pyrene	mg/kg (ppm)	0.17	<0.00022	66	64	39-128	3
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	<0.00062	75	71	28-146	5
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	<0.00034	68	62	46-129	9
Benzo(g,h,i)perylene	mg/kg (ppm)	0.17	<0.00034	64	60	37-133	6

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.17	84	74	58-121	13
Acenaphthylene	mg/kg (ppm)	0.17	85	81	54-121	5
Acenaphthene	mg/kg (ppm)	0.17	84	79	54-123	6
Fluorene	mg/kg (ppm)	0.17	86	83	56-127	4
Phenanthrene	mg/kg (ppm)	0.17	84	82	55-122	2
Anthracene	mg/kg (ppm)	0.17	76	74	50-120	3
Fluoranthene	mg/kg (ppm)	0.17	87	85	54-129	2
Pyrene	mg/kg (ppm)	0.17	87	85	53-127	2
Benz(a)anthracene	mg/kg (ppm)	0.17	84	81	51-115	4
Chrysene	mg/kg (ppm)	0.17	89	87	55-129	2
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	86	84	56-123	2
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	76	75	54-131	1
Benzo(a)pyrene	mg/kg (ppm)	0.17	72	70	51-118	3
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	94	91	49-148	3
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	86	84	50-141	2
Benzo(g,h,i)perylene	mg/kg (ppm)	0.17	82	79	52-131	4

Date of Report: 07/22/13
Date Received: 06/12/13
Project: Crowley RIFS 101.00205.00019, F&BI 306191

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS AS AROCLOR 1016/1260 BY EPA METHOD 8082A

Laboratory Code: 306191-19 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Control Limits	RPD (Limit 20)
Aroclor 1016	mg/kg (ppm)	0.8	<0.033	88	87	50-150	1
Aroclor 1260	mg/kg (ppm)	0.8	<0.033	117	96	50-150	20

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	Acceptance Criteria
Aroclor 1016	mg/kg (ppm)	0.8	88	70-130
Aroclor 1260	mg/kg (ppm)	0.8	91	70-130

Date of Report: 07/22/13
Date Received: 06/12/13
Project: Crowley RIFS 101.00205.00019, F&BI 306191

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 306191-04 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Beryllium	mg/kg (ppm)	5	0.105	103	103	67-138	0
Chromium	mg/kg (ppm)	50	15.8	92 b	92 b	57-128	0 b
Nickel	mg/kg (ppm)	25	17.2	95 b	82 b	69-112	15 b
Copper	mg/kg (ppm)	50	9.41	87	86	57-120	1
Zinc	mg/kg (ppm)	50	16.8	89 b	92 b	55-129	3 b
Arsenic	mg/kg (ppm)	10	1.71	95	99	70-118	4
Selenium	mg/kg (ppm)	5	<0.912	88	90	64-117	2
Silver	mg/kg (ppm)	10	<.0784	99	100	73-122	1
Cadmium	mg/kg (ppm)	10	<0.204	102	102	83-116	0
Antimony	mg/kg (ppm)	20	0.125	92	92	54-116	0
Barium	mg/kg (ppm)	50	69.6	61 b	148 b	60-141	83 b
Thallium	mg/kg (ppm)	5	<.0434	99	98	68-121	1
Lead	mg/kg (ppm)	50	2.01	100	103	59-148	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Beryllium	mg/kg (ppm)	5	108	69-146
Chromium	mg/kg (ppm)	50	100	78-121
Nickel	mg/kg (ppm)	25	98	82-122
Copper	mg/kg (ppm)	50	97	82-119
Zinc	mg/kg (ppm)	50	93	81-120
Arsenic	mg/kg (ppm)	10	98	83-113
Selenium	mg/kg (ppm)	5	98	84-115
Silver	mg/kg (ppm)	10	100	81-116
Cadmium	mg/kg (ppm)	10	101	54-114
Antimony	mg/kg (ppm)	20	97	69-114
Barium	mg/kg (ppm)	50	100	85-116
Thallium	mg/kg (ppm)	5	99	77-123
Lead	mg/kg (ppm)	50	101	80-120

Date of Report: 07/22/13
Date Received: 06/12/13
Project: Crowley RIFS 101.00205.00019, F&BI 306191

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Laboratory Code: 306191-04 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Mercury	mg/kg (ppm)	0.125	0.014	97	99	62-140	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Mercury	mg/kg (ppm)	0.125	92	63-131

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

306191

SAMPLE CHAIN OF CUSTODY KJ 06-12-13

BD4/052/V1

Page # 1 of 3

Send Report To Mike Staton
Company SLR International
Address 22118 20th Ave SE, G202
City, State, ZIP Bothell, WA 98021
Phone # 425-402-8800 Fax # 425-402-4

SAMPLERS (signature)

PROJECT NAME/NO.: Crowley RIFS 101.00205.00019
PO#: 101.00205.00019

REMARKS: NWTPH-DX after silica gel cleanup
Hold for Grab
email coc to mstaton@slrconsulting.com

TURNAROUND TIME
☒ Standard (2 Weeks)
☐ RUSH
Rush charges authorized by

SAMPLE DISPOSAL
☐ Dispose after 30 days
☐ Return samples
☐ Will call with instructions

V=added per Mike Staton 6/28/13

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260C	SVOCs by 8270D	HFS	DRO+HO by NWTPH-DX	PAHs by 8270D SIM	PCBs by 8082A	Mercury by 7471B	Priority Pollutant Metals by 200.8	Cr(VI) by 7196A	HOLD	Notes
TB-061913	01	6/12/13	1045	WATER	2				X									HOLD	Analyze per Mike Staton 6/17/13
EMW-115-1.0	02	6/12/13	0820	SOIL	6				X	X		X	X	X	X	X	X		
EMW-115-2.5	03		0830															HOLD	
EMW-115-5.0	04		0840																
EMW-115-7.5	05		0850															HOLD	
EMW-115-10.0	06		0900																
EMW-115-12.5	07		0910							✓			✓					HOLD	
EMW-15-2.5	08		1055																
EMW-15-5.0	09		1105																
EMW-15-7.5	10		1115															HOLD	

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Amanda Mengist	SLR	6/12/13	1517
Received by:	Michele Costales Poquiz	FEBI	6/12/13	1517
Relinquished by:				
Received by:		Samples received at		4 °C

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

306191

SAMPLE CHAIN OF CUSTODY

KJ 06-12-13

BD4/0 SZ/N

Page # 2 of 3

Send Report To Mike Staton

Company SLR International Corp

Address 22118 20th AVE SE, 6202

City, State, ZIP Bothell, WA 98021

Phone # 425-402-8800 Fax # 425-402-8788

SAMPLERS (signature)

PROJECT NAME/NO. Cowley RIFS 101.00205.00019

PO# 101.00205.00019

REMARKS NWTPH-DX after silica gel cleanup
Hold for Cr6+
email COC to mstaton@slrconsulting.com

TURNAROUND TIME
☒ Standard (2 Weeks)
☐ RUSH
Rush charges authorized by

SAMPLE DISPOSAL
☐ Dispose after 30 days
☐ Return samples
☐ Will call with instructions

	Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260C	SVOCs by 8270D	HFS	DRO+HO by NWTPH-DX	PAHs by 8270D SIM	PCBs by 8082A	Mercury by 1631E	Priority Pollutant Metals Ba, Be 200.8	Cr6+ by 7196A	Notes
	EMW-15-10.0	11 A-F	6/12/13	1125	Soil	6				X	X		X	X	X	X	X	X	
OLD	EMW-15-15.0	12		1135										✓					HOLD
	EMW-65-1.0	13 A-E		1250															
OLD	EMW-65-2.5	14 A-E		1300															HOLD
	EMW-65-5.0	15		1310															
OLD	EMW-65-7.5	16		1320															HOLD
	EMW-65-10.0	17		1330															
OLD	EMW-65-12.5	18		1340							✓			✓					HOLD
	EMW-85-1.0	19		1415															
HOLD	EMW-85-2.5	20		1425															HOLD

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Amanda Mengnit	SLR	6/12/13	1517
Received by:	Michele Costales Poquiz	F&B	6/12/13	1517
Relinquished by:				
Received by:		Samples received at 4 °C		

306191

SAMPLE CHAIN OF CUSTODY

KJ 06-12-13

BIY / VSZ / 1

Page # 3 of 3

Send Report To Mike Staton
Company SLR International
Address 22118 20th Ave SE, G202
City, State, ZIP Bothell, WA 98021
Phone # 425-402-8800 Fax # 425-402-8488

SAMPLERS (signature)

PROJECT NAME/NO.: Crowley RIFS 101.00205.00019

PO#: 101.00205.00019

REMARKS
NWTPH-Dx after silica gel cleanup
HOLD for Cr6+
email cc to mstaton@slrconsulting.com

TURNAROUND TIME
☒ Standard (2 Weeks)
☐ RUSH
Rush charges authorized by

SAMPLE DISPOSAL
☐ Dispose after 30 days
☐ Return samples
☐ Will call with instructions

	Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260C	SVOCs by 8270D	HFS	Diesel by NWTPH-Dx	NWTPH-Dx	PAH by 8270D SIM	PCBs by 8082A	Mercury by 1631E	Radio Pollutant Ra+Ra by 9315	Cr6+ by 7196A	Notes
	EMW-85-5.0	21	1435	6/12/13	Soil	6														
OLD	EMW-85-7.5	22	1445																	HOLD
	EMW-85-10.0	23	1500																	
OLD	EMW-85-12.5	24	1510												✓					HOLD
HOLD	EMW-905-7.5	25	1545	↓	↓	↓														HOLD

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Amanda Mengriet	SLR	6/12/13	1517
Received by:	Michele Costales Poquiz	FEBI	6/12/13	1517
Relinquished by:			4	
Received by:		Samples received at ____ °C		

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FORMS\COC\COC.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Kurt Johnson, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

July 25, 2013

Mike Staton
SLR International Corp.
22118 20th Ave. SE., G-202
Bothell, WA 98021

Dear Mr. Staton:

Included are the results from the testing of material submitted on June 12, 2013 from the Crowley RIFS 101.00205.00019, F&BI 306183 project. There are 106 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michele Costales Poquiz

Michele Costales Poquiz
Chemist

Enclosures
SLR0725R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on June 12, 2013 by Friedman & Bruya, Inc. from the SLR International Corp. Crowley RIFS 101.00205.00019, F&BI 306183 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SLR International Corp.
306183-01	EMW-13S-1.0
306183-02	EMW-13S-2.5
306183-03	EMW-13S-5.0
306183-04	EMW-13S-7.5
306183-05	EMW-13S-12.5
306183-06	EMW-12S-1.0
306183-07	EMW-12S-2.5
306183-08	EMW-12S-5.0
306183-09	EMW-12S-7.5
306183-10	EMW-12S-10.0
306183-11	EMW-12S-12.5
306183-12	EMW-12S-15.0
306183-13	EMW-12S-20.0
306183-14	EMW-3S-1.0
306183-15	EMW-3S-2.5
306183-16	EMW-3S-5.0
306183-17	EMW-3S-7.5
306183-18	EMW-3S-10.0
306183-19	EMW-3S-12.5
306183-20	EMW-3S-15.0
306183-21	EMW3S-20.0
306183-22	TB-061113
306183-23	EMW-89S-5.0

Total Petroluem Hydrocarbons as Gasoline by Method NWTPH-Gx

All quality control requirements were acceptable.

Total Petroluem Hydrocarbons as Diesel and Motor Oil by Method NWTPH-Dx with Silica Gel

All quality control requirements were acceptable.

Volatile Compounds by EPA Method 8260C

The calibration result for 2,2-dichloropropane fell outside of acceptance criteria. The values reported are estimates.

CASE NARRATIVE (cont.)

The percent recovery for the matrix spike (MS), laboratory control sample (LCS), and laboratory control sample duplicate (LCSD) failed high for several compounds. In addition, the relative percent difference (RPD) for the MS and matrix spike duplicate (MSD) failed high for bromomethane. The compounds were not identified in the samples, therefore the results are valid.

Semivolatile Organic Compounds by EPA Method 8270D
The samples EMW-13S-1.0, EMW-13S-7.5, EMW-13S-12.5, EMW-12S-5.0, EMW-3S-1.0, EMW-3S-10.0, and EMW-89S-5.0 were diluted due to matrix interferences. The reporting limits have been raised accordingly.

The presence of bis(2-ethylhexyl) phthalate in the samples EMW-13S-5.0 and EMW-12S-10.0 is likely due to laboratory contamination. The results have been flagged accordingly.

The percent recovery for the MS, MSD, and LCS failed high for several compounds. In addition, the relative percent difference (RPD) for the LCS/LCSD and the MS/MSD exceeded acceptance criteria for several compounds. In addition, the RPD for the MS/MSD exceeded acceptance criteria for several compounds. The results have been flagged accordingly.

Semivolatile Organic Compounds by EPA Method 8270D SIM
The samples EMW-13S-1.0, EMW-13S-5.0, EMW-13S-7.5, EMW-13S-12.5, EMW-12S-5.0, EMW-3S-1.0, EMW-3S-10.0, and EMW-89S-5.0 were diluted due to matrix interferences. The reporting limits have been raised accordingly.

Polychlorinated Biphenyls as Aroclor 1016/1260 by EPA Method 8082A
The samples EMW-13S-1.0, EMW-13S-7.5, and EMW-89S-5.0 were diluted due to matrix interferences. The reporting limits have been raised accordingly.

The percent recovery for the MS exceeded acceptance criteria for Aroclor 1016. The result has been flagged accordingly.

Total Metals by EPA Method 200.8
Copper was identified at a low level in the method blank. The results have been flagged accordingly.

Total Mercury by EPA Method 1631E
All quality control requirements were acceptable.

Date of Report: 07/25/13
Date Received: 06/12/13
Project: Crowley RIFS 101.00205.00019, F&BI 306183
Date Extracted: 06/19/13
Date Analyzed: 06/19/13

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Gasoline Range	Surrogate (% Recovery) (Limit 58-139)
EMW-13S-1.0 306183-01	<0.20	80
EMW-13S-5.0 306183-03	<0.20	83
EMW-13S-7.5 306183-04	4.6	85
EMW-12S-1.0 306183-06	<0.20	83
EMW-12S-5.0 306183-08	<0.20	82
EMW-12S-10.0 306183-10	<0.20	81
EMW-12S-15.0 306183-12	<0.20	82
Method Blank 03-1162 MB	<0.20	83

Date of Report: 07/25/13
Date Received: 06/12/13
Project: Crowley RIFS 101.00205.00019, F&BI 306183
Date Extracted: 06/13/13 and 06/21/13
Date Analyzed: 06/17/13 and 06/22/13

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx
Sample Extracts Passed Through a Silica Gel Column Prior to Analysis
Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 53-144)
EMW-13S-1.0 306183-01	<12	100	102
EMW-13S-5.0 306183-03	<12	<21	101
EMW-13S-7.5 306183-04	230	550	106
EMW-13S-12.5 306183-05	250 x	460	103
EMW-12S-1.0 306183-06	<12	<21	107
EMW-12S-5.0 306183-08	<12	<21	118
EMW-12S-10.0 306183-10	<12	<21	112
EMW-12S-15.0 306183-12	<12	<21	128
EMW-3S-1.0 306183-14	14 x	110	103

Date of Report: 07/25/13
Date Received: 06/12/13
Project: Crowley RIFS 101.00205.00019, F&BI 306183
Date Extracted: 06/13/13 and 06/21/13
Date Analyzed: 06/17/13 and 06/22/13

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx
Sample Extracts Passed Through a Silica Gel Column Prior to Analysis
Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 53-144)
EMW-3S-5.0 306183-16	<12	<21	110
EMW-3S-10.0 306183-18	<12	<21	107
EMW-3S-15.0 306183-20	<12	<21	113
EMW-89S-5.0 306183-23	31 x	560	106
Method Blank 03-1149 MB	<12	<21	113
Method Blank 03-1217 MB	<12	<21	98

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-13S-1.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/14/13	Lab ID:	306183-01
Date Analyzed:	06/14/13	Data File:	061409.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026 ca	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-13S-5.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/14/13	Lab ID:	306183-03
Date Analyzed:	06/14/13	Data File:	061410.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026 ca	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-13S-7.5	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/14/13	Lab ID:	306183-04
Date Analyzed:	06/14/13	Data File:	061411.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026 ca	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	0.049
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	0.13
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	0.022
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	0.079
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-12S-1.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/14/13	Lab ID:	306183-06
Date Analyzed:	06/14/13	Data File:	061412.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026 ca	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-12S-5.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/14/13	Lab ID:	306183-08
Date Analyzed:	06/14/13	Data File:	061413.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026 ca	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-12S-10.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/14/13	Lab ID:	306183-10
Date Analyzed:	06/14/13	Data File:	061414.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026 ca	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-12S-15.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/14/13	Lab ID:	306183-12
Date Analyzed:	06/14/13	Data File:	061415.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026 ca	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-3S-1.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/14/13	Lab ID:	306183-14
Date Analyzed:	06/14/13	Data File:	061416.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026 ca	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-3S-5.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/14/13	Lab ID:	306183-16
Date Analyzed:	06/14/13	Data File:	061417.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026 ca	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-3S-10.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/14/13	Lab ID:	306183-18
Date Analyzed:	06/14/13	Data File:	061418.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026 ca	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-3S-15.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/14/13	Lab ID:	306183-20
Date Analyzed:	06/14/13	Data File:	061419.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026 ca	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-89S-5.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/14/13	Lab ID:	306183-23
Date Analyzed:	06/14/13	Data File:	061420.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026 ca	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

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Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/14/13	Lab ID:	03-1110 mb
Date Analyzed:	06/14/13	Data File:	061408.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026 ca	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	03-1220 mb
Date Analyzed:	06/24/13	Data File:	062408.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026 ca	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	TB-061113	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/18/13	Lab ID:	306183-22
Date Analyzed:	06/18/13	Data File:	061813.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	96	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13 pr	Dibromochloromethane	<0.24
Bromomethane	<0.2	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

FRIEDMAN & BRUYA, INC.

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Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/18/13	Lab ID:	03-1114 mb
Date Analyzed:	06/18/13	Data File:	061809.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	96	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-13S-1.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	306183-01 1/10
Date Analyzed:	06/22/13	Data File:	062123.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	73 ds	56	115
Phenol-d6	73 ds	54	113
Nitrobenzene-d5	71 ds	31	164
2-Fluorobiphenyl	80 ds	47	133
2,4,6-Tribromophenol	71 ds	35	141
Terphenyl-d14	94 ds	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.054	2,4,6-Trichlorophenol	<0.08
Bis(2-chloroethyl) ether	<0.016	2,4,5-Trichlorophenol	<0.096
2-Chlorophenol	<0.062	2-Chloronaphthalene	<0.014
1,3-Dichlorobenzene	<0.026	2-Nitroaniline	<0.026
1,4-Dichlorobenzene	<0.024	Dimethyl phthalate	<0.012
1,2-Dichlorobenzene	<0.04	2,6-Dinitrotoluene	<0.018
Benzyl alcohol	<0.05	3-Nitroaniline	<0.17
Bis(2-chloroisopropyl) ether	<0.016	2,4-Dinitrophenol	<0.14
2-Methylphenol	<0.064	Dibenzofuran	<0.01
Hexachloroethane	<0.034	2,4-Dinitrotoluene	<0.016
N-Nitroso-di-n-propylamine	<0.03	4-Nitrophenol	<0.18
3-Methylphenol + 4-Methylphenol	<0.14	Diethyl phthalate	<0.04
Nitrobenzene	<0.026	4-Chlorophenyl phenyl ether	<0.016
Isophorone	<0.012	N-Nitrosodiphenylamine	<0.01
2-Nitrophenol	<0.082	4-Nitroaniline	<0.18
2,4-Dimethylphenol	<0.19	4,6-Dinitro-2-methylphenol	<0.11
Benzoic acid	<0.55	4-Bromophenyl phenyl ether	<0.016
Bis(2-chloroethoxy)methane	<0.014	Hexachlorobenzene	<0.01
2,4-Dichlorophenol	<0.058	Pentachlorophenol	<0.062 j
1,2,4-Trichlorobenzene	<0.034	Carbazole	<0.02
Hexachlorobutadiene	<0.02	Di-n-butyl phthalate	<0.2
4-Chloroaniline	<1.8	Benzyl butyl phthalate	<0.058
4-Chloro-3-methylphenol	<0.044	Bis(2-ethylhexyl) phthalate	<0.13
2-Methylnaphthalene	<0.01	Di-n-octyl phthalate	<0.034
Hexachlorocyclopentadiene	<0.022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-13S-5.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	306183-03
Date Analyzed:	06/22/13	Data File:	062129.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	72	56	115
Phenol-d6	81	54	113
Nitrobenzene-d5	80	31	164
2-Fluorobiphenyl	84	47	133
2,4,6-Tribromophenol	90	35	141
Terphenyl-d14	112	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	0.0067	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014
2-Methylphenol	<0.0064	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062 j
1,2,4-Trichlorobenzene	<0.0034	Carbazole	0.0027
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	0.043 lc
2-Methylnaphthalene	<0.001	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-13S-7.5	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	306183-04 1/200
Date Analyzed:	06/22/13	Data File:	062124.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	87 ds	56	115
Phenol-d6	75 ds	54	113
Nitrobenzene-d5	99 ds	31	164
2-Fluorobiphenyl	98 ds	47	133
2,4,6-Tribromophenol	56 ds	35	141
Terphenyl-d14	123 ds	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<1.1	2,4,6-Trichlorophenol	<1.6
Bis(2-chloroethyl) ether	<0.32	2,4,5-Trichlorophenol	<1.9
2-Chlorophenol	<1.2	2-Chloronaphthalene	<0.28
1,3-Dichlorobenzene	<0.52	2-Nitroaniline	<0.52
1,4-Dichlorobenzene	<0.48	Dimethyl phthalate	<0.24
1,2-Dichlorobenzene	<0.8	2,6-Dinitrotoluene	<0.36
Benzyl alcohol	<1	3-Nitroaniline	<3.5
Bis(2-chloroisopropyl) ether	<0.32	2,4-Dinitrophenol	<2.8
2-Methylphenol	<1.3	Dibenzofuran	<0.2
Hexachloroethane	<0.68	2,4-Dinitrotoluene	<0.32
N-Nitroso-di-n-propylamine	<0.6	4-Nitrophenol	<3.6
3-Methylphenol + 4-Methylphenol	<2.9	Diethyl phthalate	<0.8
Nitrobenzene	<0.52	4-Chlorophenyl phenyl ether	<0.32
Isophorone	<0.24	N-Nitrosodiphenylamine	<0.2
2-Nitrophenol	<1.6	4-Nitroaniline	<3.6
2,4-Dimethylphenol	<3.7	4,6-Dinitro-2-methylphenol	<2.1
Benzoic acid	<11	4-Bromophenyl phenyl ether	<0.32
Bis(2-chloroethoxy)methane	<0.28	Hexachlorobenzene	<0.2
2,4-Dichlorophenol	<1.2	Pentachlorophenol	<1.2 j
1,2,4-Trichlorobenzene	<0.68	Carbazole	<0.4
Hexachlorobutadiene	<0.4	Di-n-butyl phthalate	<4
4-Chloroaniline	<36	Benzyl butyl phthalate	<1.2
4-Chloro-3-methylphenol	<0.88	Bis(2-ethylhexyl) phthalate	<2.7
2-Methylnaphthalene	0.23	Di-n-octyl phthalate	<0.68
Hexachlorocyclopentadiene	<0.44		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-12S-1.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	306183-06
Date Analyzed:	06/21/13	Data File:	062109.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	74	56	115
Phenol-d6	79	54	113
Nitrobenzene-d5	79	31	164
2-Fluorobiphenyl	82	47	133
2,4,6-Tribromophenol	85	35	141
Terphenyl-d14	93	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	0.0061	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014
2-Methylphenol	<0.0064	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062 j
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	<0.013
2-Methylnaphthalene	<0.001	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-12S-5.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	306183-08 1/100
Date Analyzed:	06/22/13	Data File:	062125.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	77 ds	56	115
Phenol-d6	76 ds	54	113
Nitrobenzene-d5	82 ds	31	164
2-Fluorobiphenyl	92 ds	47	133
2,4,6-Tribromophenol	24 ds	35	141
Terphenyl-d14	103 ds	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.54	2,4,6-Trichlorophenol	<0.8
Bis(2-chloroethyl) ether	<0.16	2,4,5-Trichlorophenol	<0.96
2-Chlorophenol	<0.62	2-Chloronaphthalene	<0.14
1,3-Dichlorobenzene	<0.26	2-Nitroaniline	<0.26
1,4-Dichlorobenzene	<0.24	Dimethyl phthalate	<0.12
1,2-Dichlorobenzene	<0.4	2,6-Dinitrotoluene	<0.18
Benzyl alcohol	<0.5	3-Nitroaniline	<1.7
Bis(2-chloroisopropyl) ether	<0.16	2,4-Dinitrophenol	<1.4
2-Methylphenol	<0.64	Dibenzofuran	0.11
Hexachloroethane	<0.34	2,4-Dinitrotoluene	<0.16
N-Nitroso-di-n-propylamine	<0.3	4-Nitrophenol	<1.8
3-Methylphenol + 4-Methylphenol	<1.4	Diethyl phthalate	<0.4
Nitrobenzene	<0.26	4-Chlorophenyl phenyl ether	<0.16
Isophorone	<0.12	N-Nitrosodiphenylamine	<0.1
2-Nitrophenol	<0.82	4-Nitroaniline	<1.8
2,4-Dimethylphenol	<1.9	4,6-Dinitro-2-methylphenol	<1.1
Benzoic acid	<5.5	4-Bromophenyl phenyl ether	<0.16
Bis(2-chloroethoxy)methane	<0.14	Hexachlorobenzene	<0.1
2,4-Dichlorophenol	<0.58	Pentachlorophenol	<0.62 j
1,2,4-Trichlorobenzene	<0.34	Carbazole	0.32
Hexachlorobutadiene	<0.2	Di-n-butyl phthalate	<2
4-Chloroaniline	<18	Benzyl butyl phthalate	<0.58
4-Chloro-3-methylphenol	<0.44	Bis(2-ethylhexyl) phthalate	<1.3
2-Methylnaphthalene	<0.1	Di-n-octyl phthalate	<0.34
Hexachlorocyclopentadiene	<0.22		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-12S-10.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	306183-10
Date Analyzed:	06/21/13	Data File:	062108.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	65	56	115
Phenol-d6	68	54	113
Nitrobenzene-d5	69	31	164
2-Fluorobiphenyl	78	47	133
2,4,6-Tribromophenol	81	35	141
Terphenyl-d14	94	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	0.0026
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	0.0083	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014
2-Methylphenol	<0.0064	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062 j
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	0.038 lc
2-Methylnaphthalene	<0.001	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-12S-15.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	306183-12
Date Analyzed:	06/21/13	Data File:	062107.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	48	56	115
Phenol-d6	56	54	113
Nitrobenzene-d5	56	31	164
2-Fluorobiphenyl	71	47	133
2,4,6-Tribromophenol	71	35	141
Terphenyl-d14	97	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	0.0013
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	<0.005	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014
2-Methylphenol	<0.0064	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062 j
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	<0.013
2-Methylnaphthalene	<0.001	Di-n-octyl phthalate	<0.0034 J
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-3S-1.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	306183-14 1/100
Date Analyzed:	06/22/13	Data File:	062126.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	91 ds	56	115
Phenol-d6	68 ds	54	113
Nitrobenzene-d5	82 ds	31	164
2-Fluorobiphenyl	89 ds	47	133
2,4,6-Tribromophenol	65 ds	35	141
Terphenyl-d14	98 ds	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.54	2,4,6-Trichlorophenol	<0.8
Bis(2-chloroethyl) ether	<0.16	2,4,5-Trichlorophenol	<0.96
2-Chlorophenol	<0.62	2-Chloronaphthalene	<0.14
1,3-Dichlorobenzene	<0.26	2-Nitroaniline	<0.26
1,4-Dichlorobenzene	<0.24	Dimethyl phthalate	<0.12
1,2-Dichlorobenzene	<0.4	2,6-Dinitrotoluene	<0.18
Benzyl alcohol	<0.5	3-Nitroaniline	<1.7
Bis(2-chloroisopropyl) ether	<0.16	2,4-Dinitrophenol	<1.4
2-Methylphenol	<0.64	Dibenzofuran	<0.1
Hexachloroethane	<0.34	2,4-Dinitrotoluene	<0.16
N-Nitroso-di-n-propylamine	<0.3	4-Nitrophenol	<1.8
3-Methylphenol + 4-Methylphenol	<1.4	Diethyl phthalate	<0.4
Nitrobenzene	<0.26	4-Chlorophenyl phenyl ether	<0.16
Isophorone	<0.12	N-Nitrosodiphenylamine	<0.1
2-Nitrophenol	<0.82	4-Nitroaniline	<1.8
2,4-Dimethylphenol	<1.9	4,6-Dinitro-2-methylphenol	<1.1
Benzoic acid	<5.5	4-Bromophenyl phenyl ether	<0.16
Bis(2-chloroethoxy)methane	<0.14	Hexachlorobenzene	<0.1
2,4-Dichlorophenol	<0.58	Pentachlorophenol	<0.62 j
1,2,4-Trichlorobenzene	<0.34	Carbazole	<0.2
Hexachlorobutadiene	<0.2	Di-n-butyl phthalate	<2
4-Chloroaniline	<18	Benzyl butyl phthalate	<0.58
4-Chloro-3-methylphenol	<0.44	Bis(2-ethylhexyl) phthalate	<1.3
2-Methylnaphthalene	<0.1	Di-n-octyl phthalate	<0.34
Hexachlorocyclopentadiene	<0.22		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-3S-5.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	306183-16
Date Analyzed:	06/22/13	Data File:	062130.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	72	56	115
Phenol-d6	77	54	113
Nitrobenzene-d5	80	31	164
2-Fluorobiphenyl	80	47	133
2,4,6-Tribromophenol	91	35	141
Terphenyl-d14	98	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	<0.005	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014
2-Methylphenol	<0.0064	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062 j
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	<0.013
2-Methylnaphthalene	<0.001	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-3S-10.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	306183-18 1/100
Date Analyzed:	06/22/13	Data File:	062127.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	59 ds	56	115
Phenol-d6	45 ds	54	113
Nitrobenzene-d5	76 ds	31	164
2-Fluorobiphenyl	76 ds	47	133
2,4,6-Tribromophenol	36 ds	35	141
Terphenyl-d14	92 ds	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.54	2,4,6-Trichlorophenol	<0.8
Bis(2-chloroethyl) ether	<0.16	2,4,5-Trichlorophenol	<0.96
2-Chlorophenol	<0.62	2-Chloronaphthalene	<0.14
1,3-Dichlorobenzene	<0.26	2-Nitroaniline	<0.26
1,4-Dichlorobenzene	<0.24	Dimethyl phthalate	<0.12
1,2-Dichlorobenzene	<0.4	2,6-Dinitrotoluene	<0.18
Benzyl alcohol	<0.5	3-Nitroaniline	<1.7
Bis(2-chloroisopropyl) ether	<0.16	2,4-Dinitrophenol	<1.4
2-Methylphenol	<0.64	Dibenzofuran	<0.1
Hexachloroethane	<0.34	2,4-Dinitrotoluene	<0.16
N-Nitroso-di-n-propylamine	<0.3	4-Nitrophenol	<1.8
3-Methylphenol + 4-Methylphenol	<1.4	Diethyl phthalate	<0.4
Nitrobenzene	<0.26	4-Chlorophenyl phenyl ether	<0.16
Isophorone	<0.12	N-Nitrosodiphenylamine	<0.1
2-Nitrophenol	<0.82	4-Nitroaniline	<1.8
2,4-Dimethylphenol	<1.9	4,6-Dinitro-2-methylphenol	<1.1
Benzoic acid	<5.5	4-Bromophenyl phenyl ether	<0.16
Bis(2-chloroethoxy)methane	<0.14	Hexachlorobenzene	<0.1
2,4-Dichlorophenol	<0.58	Pentachlorophenol	<0.62 j
1,2,4-Trichlorobenzene	<0.34	Carbazole	<0.2
Hexachlorobutadiene	<0.2	Di-n-butyl phthalate	<2
4-Chloroaniline	<18	Benzyl butyl phthalate	<0.58
4-Chloro-3-methylphenol	<0.44	Bis(2-ethylhexyl) phthalate	<1.3
2-Methylnaphthalene	<0.1	Di-n-octyl phthalate	<0.34
Hexachlorocyclopentadiene	<0.22		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-3S-15.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	306183-20
Date Analyzed:	06/21/13	Data File:	062106.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	74	56	115
Phenol-d6	83	54	113
Nitrobenzene-d5	85	31	164
2-Fluorobiphenyl	80	47	133
2,4,6-Tribromophenol	85	35	141
Terphenyl-d14	99	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	0.0014
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	0.0062	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014
2-Methylphenol	<0.0064	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062 j
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	<0.013
2-Methylnaphthalene	<0.001	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-89S-5.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	306183-23 1/200
Date Analyzed:	06/22/13	Data File:	062128.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	48 ds	56	115
Phenol-d6	63 ds	54	113
Nitrobenzene-d5	77 ds	31	164
2-Fluorobiphenyl	99 ds	47	133
2,4,6-Tribromophenol	0 ds	35	141
Terphenyl-d14	116 ds	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<1.1	2,4,6-Trichlorophenol	<1.6
Bis(2-chloroethyl) ether	<0.32	2,4,5-Trichlorophenol	<1.9
2-Chlorophenol	<1.2	2-Chloronaphthalene	<0.28
1,3-Dichlorobenzene	<0.52	2-Nitroaniline	<0.52
1,4-Dichlorobenzene	<0.48	Dimethyl phthalate	<0.24
1,2-Dichlorobenzene	<0.8	2,6-Dinitrotoluene	<0.36
Benzyl alcohol	<1	3-Nitroaniline	<3.5
Bis(2-chloroisopropyl) ether	<0.32	2,4-Dinitrophenol	<2.8
2-Methylphenol	<1.3	Dibenzofuran	<0.2
Hexachloroethane	<0.68	2,4-Dinitrotoluene	<0.32
N-Nitroso-di-n-propylamine	<0.6	4-Nitrophenol	<3.6
3-Methylphenol + 4-Methylphenol	<2.9	Diethyl phthalate	<0.8
Nitrobenzene	<0.52	4-Chlorophenyl phenyl ether	<0.32
Isophorone	<0.24	N-Nitrosodiphenylamine	<0.2
2-Nitrophenol	<1.6	4-Nitroaniline	<3.6
2,4-Dimethylphenol	<3.7	4,6-Dinitro-2-methylphenol	<2.1
Benzoic acid	<11	4-Bromophenyl phenyl ether	<0.32
Bis(2-chloroethoxy)methane	<0.28	Hexachlorobenzene	<0.2
2,4-Dichlorophenol	<1.2	Pentachlorophenol	<1.2 j
1,2,4-Trichlorobenzene	<0.68	Carbazole	<0.4
Hexachlorobutadiene	<0.4	Di-n-butyl phthalate	<4
4-Chloroaniline	<36	Benzyl butyl phthalate	<1.2
4-Chloro-3-methylphenol	<0.88	Bis(2-ethylhexyl) phthalate	<2.7
2-Methylnaphthalene	<0.2	Di-n-octyl phthalate	<0.68
Hexachlorocyclopentadiene	<0.44		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	03-1189 mb
Date Analyzed:	06/21/13	Data File:	062105.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	84	56	115
Phenol-d6	94	54	113
Nitrobenzene-d5	95	31	164
2-Fluorobiphenyl	92	47	133
2,4,6-Tribromophenol	101	35	141
Terphenyl-d14	98	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	<0.005	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014
2-Methylphenol	<0.0064	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062 j
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	<0.013
2-Methylnaphthalene	<0.001	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-13S-12.5	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306183-05 1/10
Date Analyzed:	07/20/13	Data File:	071935.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	81 ds	56	115
Phenol-d6	86 ds	54	113
Nitrobenzene-d5	98 ds	31	164
2-Fluorobiphenyl	103 ds	47	133
2,4,6-Tribromophenol	111 ds ca	35	141
Terphenyl-d14	118 ds	64	125

Compounds:	Concentration mg/kg (ppm)
2-Methylnaphthalene	0.058

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	03-1253 mb
Date Analyzed:	07/09/13	Data File:	070918.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	84	56	115
Phenol-d6	87	54	113
Nitrobenzene-d5	91	31	164
2-Fluorobiphenyl	91	47	133
2,4,6-Tribromophenol	91	35	141
Terphenyl-d14	90	64	125

Compounds:	Concentration mg/kg (ppm)
2-Methylnaphthalene	<0.001

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-13S-1.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	306183-01 1/10
Date Analyzed:	06/22/13	Data File:	062134.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	461 ds	50	150
Benzo(a)anthracene-d12	121 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.0022
Acenaphthylene	<0.00091
Acenaphthene	<0.0014
Fluorene	<0.0015
Phenanthrene	<0.0032
Anthracene	<0.00088
Fluoranthene	0.0054
Pyrene	0.0063
Benz(a)anthracene	0.0049
Chrysene	0.0056
Benzo(a)pyrene	0.0053
Benzo(b)fluoranthene	0.0069
Benzo(k)fluoranthene	<0.0036
Indeno(1,2,3-cd)pyrene	<0.0062
Dibenz(a,h)anthracene	<0.0034
Benzo(g,h,i)perylene	0.0049

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-13S-5.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	306183-03
Date Analyzed:	06/21/13	Data File:	062129.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	89	50	150
Benzo(a)anthracene-d12	135	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.00052
Acenaphthylene	0.00071
Acenaphthene	0.0012
Fluorene	0.0018
Phenanthrene	0.017
Anthracene	0.0042
Fluoranthene	0.074
Pyrene	0.085
Benz(a)anthracene	0.063
Chrysene	0.057
Benzo(a)pyrene	0.046
Benzo(b)fluoranthene	0.068
Benzo(k)fluoranthene	0.019
Indeno(1,2,3-cd)pyrene	0.030
Dibenz(a,h)anthracene	0.0072
Benzo(g,h,i)perylene	0.023

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-13S-5.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	306183-03 1/10
Date Analyzed:	06/24/13	Data File:	062405.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	232 ds	50	150
Benzo(a)anthracene-d12	114 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.0022
Acenaphthylene	<0.00091
Acenaphthene	<0.0014
Fluorene	<0.0015
Phenanthrene	0.017
Anthracene	0.0045
Fluoranthene	0.076
Pyrene	0.081
Benz(a)anthracene	0.055
Chrysene	0.063
Benzo(a)pyrene	0.045
Benzo(b)fluoranthene	0.061
Benzo(k)fluoranthene	0.022
Indeno(1,2,3-cd)pyrene	0.026
Dibenz(a,h)anthracene	0.0064
Benzo(g,h,i)perylene	0.023

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-13S-7.5	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	306183-04 1/200
Date Analyzed:	06/22/13	Data File:	062136.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	333 ds	50	150
Benzo(a)anthracene-d12	300 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.083
Acenaphthylene	0.032
Acenaphthene	0.21
Fluorene	0.31
Phenanthrene	1.3
Anthracene	0.72
Fluoranthene	2.8
Pyrene	2.8
Benz(a)anthracene	1.4
Chrysene	1.6
Benzo(a)pyrene	1.0
Benzo(b)fluoranthene	1.4
Benzo(k)fluoranthene	0.52
Indeno(1,2,3-cd)pyrene	0.60
Dibenz(a,h)anthracene	0.17
Benzo(g,h,i)perylene	0.52

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-12S-1.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	306183-06
Date Analyzed:	06/24/13	Data File:	062404.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	101	50	150
Benzo(a)anthracene-d12	123	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.00048
Acenaphthylene	0.000097
Acenaphthene	0.00083
Fluorene	0.00021
Phenanthrene	0.0020
Anthracene	0.00041
Fluoranthene	0.0059
Pyrene	0.0061
Benz(a)anthracene	0.0041
Chrysene	0.0043
Benzo(a)pyrene	0.0040
Benzo(b)fluoranthene	0.0061
Benzo(k)fluoranthene	0.0018
Indeno(1,2,3-cd)pyrene	0.0030
Dibenz(a,h)anthracene	0.00080
Benzo(g,h,i)perylene	0.0029

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-12S-5.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	306183-08 1/10
Date Analyzed:	06/22/13	Data File:	062135.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	236 ds	50	150
Benzo(a)anthracene-d12	123 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.0047
Acenaphthylene	0.0011
Acenaphthene	0.022
Fluorene	0.032
Phenanthrene	0.24
Anthracene	0.094
Fluoranthene	0.50
Pyrene	0.44
Benz(a)anthracene	0.26
Chrysene	0.24
Benzo(a)pyrene	0.15
Benzo(b)fluoranthene	0.22
Benzo(k)fluoranthene	0.072
Indeno(1,2,3-cd)pyrene	0.080
Dibenz(a,h)anthracene	0.025
Benzo(g,h,i)perylene	0.065

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-12S-10.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	306183-10
Date Analyzed:	06/21/13	Data File:	062120.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	80	50	150
Benzo(a)anthracene-d12	93	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.00022
Acenaphthylene	<0.000091
Acenaphthene	<0.00014
Fluorene	<0.00015
Phenanthrene	0.00075
Anthracene	<0.000088
Fluoranthene	<0.00028
Pyrene	<0.00026
Benz(a)anthracene	<0.00018
Chrysene	<0.00019
Benzo(a)pyrene	<0.00022
Benzo(b)fluoranthene	<0.00018
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	<0.00062
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	<0.00034

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-12S-15.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	306183-12
Date Analyzed:	06/21/13	Data File:	062127.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	68	50	150
Benzo(a)anthracene-d12	72	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.00025
Acenaphthylene	<0.000091
Acenaphthene	<0.00014
Fluorene	<0.00015
Phenanthrene	<0.00032
Anthracene	<0.000088
Fluoranthene	<0.00028
Pyrene	<0.00026
Benz(a)anthracene	<0.00018
Chrysene	<0.00019
Benzo(a)pyrene	<0.00022
Benzo(b)fluoranthene	<0.00018
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	<0.00062
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	<0.00034

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-3S-1.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	306183-14 1/100
Date Analyzed:	06/22/13	Data File:	062131.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	370 ds	50	150
Benzo(a)anthracene-d12	238 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.022
Acenaphthylene	<0.0091
Acenaphthene	<0.014
Fluorene	<0.015
Phenanthrene	0.057
Anthracene	0.044
Fluoranthene	0.24
Pyrene	0.21
Benz(a)anthracene	0.12
Chrysene	0.14
Benzo(a)pyrene	0.14
Benzo(b)fluoranthene	0.20
Benzo(k)fluoranthene	0.070
Indeno(1,2,3-cd)pyrene	0.12
Dibenz(a,h)anthracene	<0.034
Benzo(g,h,i)perylene	0.11

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-3S-5.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	306183-16
Date Analyzed:	06/21/13	Data File:	062128.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	92	50	150
Benzo(a)anthracene-d12	419 ip	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.00023
Acenaphthylene	<0.000091
Acenaphthene	<0.00014
Fluorene	0.00019
Phenanthrene	0.00094
Anthracene	0.00085
Fluoranthene	0.0017
Pyrene	0.00087
Benz(a)anthracene	0.00061
Chrysene	0.00064
Benzo(a)pyrene	0.00061
Benzo(b)fluoranthene	0.00085
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	<0.00062
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	0.00037

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-3S-10.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	306183-18 1/100
Date Analyzed:	06/22/13	Data File:	062132.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	880 ds	50	150
Benzo(a)anthracene-d12	129 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.022
Acenaphthylene	0.14
Acenaphthene	<0.014
Fluorene	0.029
Phenanthrene	0.14
Anthracene	0.085
Fluoranthene	0.29
Pyrene	0.27
Benz(a)anthracene	0.15
Chrysene	0.19
Benzo(a)pyrene	0.26
Benzo(b)fluoranthene	0.33
Benzo(k)fluoranthene	0.10
Indeno(1,2,3-cd)pyrene	0.24
Dibenz(a,h)anthracene	0.048
Benzo(g,h,i)perylene	0.24

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-3S-15.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	306183-20
Date Analyzed:	06/21/13	Data File:	062123.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	88	50	150
Benzo(a)anthracene-d12	142	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.00023
Acenaphthylene	<0.000091
Acenaphthene	<0.00014
Fluorene	<0.00015
Phenanthrene	0.00062
Anthracene	<0.000088
Fluoranthene	<0.00028
Pyrene	<0.00026
Benz(a)anthracene	<0.00018
Chrysene	<0.00019
Benzo(a)pyrene	<0.00022
Benzo(b)fluoranthene	<0.00018
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	<0.00062
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	<0.00034

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-89S-5.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	306183-23 1/200
Date Analyzed:	06/22/13	Data File:	062133.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	1050 ds	50	150
Benzo(a)anthracene-d12	175 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.044
Acenaphthylene	<0.018
Acenaphthene	<0.028
Fluorene	<0.03
Phenanthrene	<0.064
Anthracene	<0.018
Fluoranthene	<0.056
Pyrene	<0.052
Benz(a)anthracene	0.058
Chrysene	0.044
Benzo(a)pyrene	<0.044
Benzo(b)fluoranthene	0.059
Benzo(k)fluoranthene	<0.072
Indeno(1,2,3-cd)pyrene	<0.12
Dibenz(a,h)anthracene	<0.068
Benzo(g,h,i)perylene	<0.068

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	03-1188 mb
Date Analyzed:	06/21/13	Data File:	062119.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	101	50	150
Benzo(a)anthracene-d12	121	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.00022
Acenaphthylene	<0.000091
Acenaphthene	<0.00014
Fluorene	<0.00015
Phenanthrene	<0.00032
Anthracene	<0.000088
Fluoranthene	<0.00028
Pyrene	<0.00026
Benz(a)anthracene	<0.00018
Chrysene	<0.00019
Benzo(a)pyrene	<0.00022
Benzo(b)fluoranthene	<0.00018
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	<0.00062
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	<0.00034

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-13S-12.5	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306183-05 1/100
Date Analyzed:	07/09/13	Data File:	070931.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	3450 ds	50	150
Benzo(a)anthracene-d12	1470 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.026
2-Methylnaphthalene	0.030
1-Methylnaphthalene	0.059
Acenaphthylene	0.017
Acenaphthene	0.15
Fluorene	0.14
Phenanthrene	2.4
Anthracene	0.51
Fluoranthene	2.7
Pyrene	3.1
Benz(a)anthracene	1.1
Chrysene	1.2
Benzo(b)fluoranthene	1.1
Benzo(k)fluoranthene	0.36
Benzo(a)pyrene	0.99
Indeno(1,2,3-cd)pyrene	0.79
Dibenz(a,h)anthracene	0.13
Benzo(g,h,i)perylene	0.75

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	03-1254 mb2
Date Analyzed:	07/08/13	Data File:	070826.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	76	50	150
Benzo(a)anthracene-d12	87	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.00022
Acenaphthylene	<0.000091
Acenaphthene	<0.00014
Fluorene	<0.00015
Phenanthrene	<0.00032
Anthracene	<0.000088
Fluoranthene	<0.00028
Pyrene	<0.00026
Benz(a)anthracene	<0.00018
Chrysene	<0.00019
Benzo(a)pyrene	<0.00022
Benzo(b)fluoranthene	<0.00018
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	<0.00062
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	<0.00034

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-13S-1.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/13/13	Lab ID:	306183-01 1/10
Date Analyzed:	07/12/13	Data File:	08.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	155 ds	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.33
Aroclor 1232	<0.33
Aroclor 1016	<0.33
Aroclor 1242	<0.33
Aroclor 1248	<0.33
Aroclor 1254	<0.33
Aroclor 1260	<0.33

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-13S-5.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/13/13	Lab ID:	306183-03
Date Analyzed:	06/18/13	Data File:	12.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	91	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-13S-7.5	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/13/13	Lab ID:	306183-04 1/100
Date Analyzed:	06/19/13	Data File:	56.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	150	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<3.3
Aroclor 1232	<3.3
Aroclor 1016	<3.3
Aroclor 1242	<3.3
Aroclor 1248	<3.3
Aroclor 1254	<3.3
Aroclor 1260	<3.3

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-13S-12.5	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306183-05
Date Analyzed:	06/28/13	Data File:	14.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	80	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-12S-1.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/13/13	Lab ID:	306183-06
Date Analyzed:	06/18/13	Data File:	14.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	89	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-12S-5.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/13/13	Lab ID:	306183-08
Date Analyzed:	06/18/13	Data File:	16.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	86	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-12S-10.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/13/13	Lab ID:	306183-10
Date Analyzed:	06/18/13	Data File:	22.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	77	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-12S-15.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/13/13	Lab ID:	306183-12
Date Analyzed:	06/18/13	Data File:	24.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	70	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-3S-1.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/13/13	Lab ID:	306183-14
Date Analyzed:	06/18/13	Data File:	30.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	173 vo	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-3S-5.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/13/13	Lab ID:	306183-16
Date Analyzed:	06/18/13	Data File:	26.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	101	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-3S-10.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/13/13	Lab ID:	306183-18
Date Analyzed:	06/18/13	Data File:	32.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	91	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-3S-15.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/13/13	Lab ID:	306183-20
Date Analyzed:	06/18/13	Data File:	34.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	84	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-89S-5.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/13/13	Lab ID:	306183-23 1/10
Date Analyzed:	07/12/13	Data File:	12.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	220 ds	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.33
Aroclor 1232	<0.33
Aroclor 1016	<0.33
Aroclor 1242	<0.33
Aroclor 1248	<0.33
Aroclor 1254	<0.33
Aroclor 1260	<0.33

Analysis For PCBs By EPA Method 8082

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/13/13	Lab ID:	03-1150 mb
Date Analyzed:	06/18/13	Data File:	10.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	92	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	03-1255 mb
Date Analyzed:	06/28/13	Data File:	10.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	100	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-13S-1.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/18/13	Lab ID:	306183-01
Date Analyzed:	06/19/13	Data File:	306183-01.027
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	99	60	125
Indium	90	60	125
Holmium	99	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.133
Chromium	9.59
Nickel	12.3
Copper	19.5 fb
Zinc	45.7
Arsenic	10.1
Selenium	<0.912
Silver	<0.0784
Cadmium	<0.204
Antimony	4.01
Barium	35.9
Thallium	0.0867
Lead	9.48

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-13S-5.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/18/13	Lab ID:	306183-03
Date Analyzed:	06/19/13	Data File:	306183-03.024
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	93	60	125
Indium	85	60	125
Holmium	94	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.150
Chromium	13.2
Nickel	25.5
Copper	9.91 fb
Zinc	26.6
Arsenic	2.10
Selenium	<0.912
Silver	<0.0784
Cadmium	<0.204
Antimony	0.213
Barium	37.2
Thallium	0.0532
Lead	3.40

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-13S-7.5	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/18/13	Lab ID:	306183-04
Date Analyzed:	06/19/13	Data File:	306183-04.028
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	112	60	125
Indium	101	60	125
Holmium	99	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.243
Chromium	22.4
Nickel	21.8
Copper	125 fb
Zinc	503
Arsenic	148
Selenium	<0.912
Silver	0.258
Cadmium	0.668
Antimony	88.5
Barium	77.7
Thallium	0.109
Lead	192

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-13S-12.5	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/28/13	Lab ID:	306183-05
Date Analyzed:	06/28/13	Data File:	306183-05.084
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	103	60	125
Indium	90	60	125
Holmium	94	60	125

Analyte:	Concentration mg/kg (ppm)
Copper	12.9
Zinc	75.4
Arsenic	6.73
Silver	<0.0784 j
Antimony	1.52
Barium	37.5
Thallium	0.0518
Lead	86.2

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-12S-1.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/18/13	Lab ID:	306183-06
Date Analyzed:	06/19/13	Data File:	306183-06.029
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	102	60	125
Indium	91	60	125
Holmium	101	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.141
Chromium	10.0
Nickel	14.1
Copper	15.3 fb
Zinc	28.1
Arsenic	5.10
Selenium	<0.912
Silver	<0.0784
Cadmium	<0.204
Antimony	1.35
Barium	32.1
Thallium	<0.0434 j
Lead	4.55

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-12S-5.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/18/13	Lab ID:	306183-08
Date Analyzed:	06/19/13	Data File:	306183-08.030
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	102	60	125
Indium	92	60	125
Holmium	103	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.119
Chromium	21.3
Nickel	18.0
Copper	15.3 fb
Zinc	31.3
Arsenic	6.46
Selenium	<0.912
Silver	<0.0784
Cadmium	<0.204
Antimony	2.55
Barium	31.9
Thallium	<0.0434 j
Lead	5.46

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-12S-10.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/18/13	Lab ID:	306183-10
Date Analyzed:	06/19/13	Data File:	306183-10.031
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	99	60	125
Indium	91	60	125
Holmium	102	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.135
Chromium	6.30
Nickel	5.00
Copper	11.6 fb
Zinc	14.0
Arsenic	2.41
Selenium	<0.912
Silver	<0.0784
Cadmium	<0.204
Antimony	0.160
Barium	23.7
Thallium	<0.0434 j
Lead	1.75

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ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-12S-15.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/18/13	Lab ID:	306183-12
Date Analyzed:	06/19/13	Data File:	306183-12.032
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	113	60	125
Indium	90	60	125
Holmium	100	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.0927
Chromium	4.46
Nickel	5.56
Copper	7.28 fb
Zinc	12.7
Arsenic	5.79
Selenium	<0.912
Silver	<0.0784
Cadmium	<0.204
Antimony	<0.106
Barium	29.3
Thallium	0.0659
Lead	1.34

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-3S-1.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/18/13	Lab ID:	306183-14
Date Analyzed:	06/19/13	Data File:	306183-14.033
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	124	60	125
Indium	92	60	125
Holmium	102	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.107
Chromium	11.8
Nickel	15.9
Copper	32.1 fb
Zinc	210
Arsenic	5.49
Selenium	<0.912
Silver	0.151
Cadmium	1.40
Antimony	1.55
Barium	67.9
Thallium	0.0625
Lead	74.2

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-3S-5.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/18/13	Lab ID:	306183-16
Date Analyzed:	06/19/13	Data File:	306183-16.035
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	100	60	125
Indium	91	60	125
Holmium	100	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.144
Chromium	11.1
Nickel	18.0
Copper	8.87 fb
Zinc	16.5
Arsenic	2.44
Selenium	<0.912
Silver	<0.0784
Cadmium	<0.204
Antimony	0.215
Barium	33.5
Thallium	<0.0434 j
Lead	2.34

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-3S-10.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/18/13	Lab ID:	306183-18
Date Analyzed:	06/19/13	Data File:	306183-18.036
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	100	60	125
Indium	92	60	125
Holmium	102	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.183
Chromium	8.17
Nickel	6.43
Copper	18.1 fb
Zinc	43.0
Arsenic	4.68
Selenium	<0.912
Silver	0.106
Cadmium	<0.204
Antimony	0.643
Barium	88.4
Thallium	<0.0434 j
Lead	23.8

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-3S-15.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/18/13	Lab ID:	306183-20
Date Analyzed:	06/19/13	Data File:	306183-20.037
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	94	60	125
Indium	90	60	125
Holmium	100	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.161
Chromium	10.7
Nickel	8.16
Copper	14.9 fb
Zinc	23.2
Arsenic	2.28
Selenium	<0.912
Silver	<0.0784
Cadmium	<0.204
Antimony	0.121
Barium	23.6
Thallium	<0.0434 j
Lead	2.07

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-89S-5.0	Client:	SLR International Corp.
Date Received:	06/12/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/18/13	Lab ID:	306183-23
Date Analyzed:	06/19/13	Data File:	306183-23.038
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	101	60	125
Indium	90	60	125
Holmium	99	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.124
Chromium	17.6
Nickel	15.7
Copper	27.6 fb
Zinc	86.8
Arsenic	14.0
Selenium	<0.912
Silver	<0.0784
Cadmium	0.344
Antimony	9.44
Barium	52.5
Thallium	<0.0434 j
Lead	22.0

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/18/13	Lab ID:	I3-354 mb
Date Analyzed:	06/19/13	Data File:	I3-354 mb.021
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	86	60	125
Indium	87	60	125
Holmium	94	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	<0.0858
Chromium	<0.471
Nickel	<0.206
Copper	0.0790 j
Zinc	<0.969
Arsenic	<0.422
Selenium	<0.912
Silver	<0.0784
Cadmium	<0.204
Antimony	<0.106
Barium	<0.0524
Thallium	<0.0434 j
Lead	<0.0496

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/28/13	Lab ID:	I3-385 mb
Date Analyzed:	06/28/13	Data File:	I3-385 mb.069
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	102	60	125
Indium	101	60	125
Holmium	107	60	125

Analyte:	Concentration mg/kg (ppm)
Copper	<0.600 j
Zinc	<0.97
Arsenic	<0.422
Silver	<0.0784 j
Antimony	<0.106
Barium	<0.0524 j
Thallium	<0.0434 j
Lead	<0.0496 j

Date of Report: 07/25/13
Date Received: 06/12/13
Project: Crowley RIFS 101.00205.00019, F&BI 306183
Date Extracted: 06/18/13 and 06/28/13
Date Analyzed: 06/19/13 and 06/28/13

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Total Mercury
EMW-13S-1.0 306183-01	0.016
EMW-13S-5.0 306183-03	0.012
EMW-13S-7.5 306183-04	0.45
EMW-13S-12.5 306183-05	0.070
EMW-12S-1.0 306183-06	0.018
EMW-12S-5.0 306183-08	0.018
EMW-12S-10.0 306183-10	0.048
EMW-12S-15.0 306183-12	0.0075
EMW-3S-1.0 306183-14	0.053
EMW-3S-5.0 306183-16	0.019
EMW-3S-10.0 306183-18	0.058

Date of Report: 07/25/13
Date Received: 06/12/13
Project: Crowley RIFS 101.00205.00019, F&BI 306183
Date Extracted: 06/18/13 and 06/28/13
Date Analyzed: 06/19/13 and 06/28/13

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Total Mercury
EMW-3S-15.0 306183-20	0.026
EMW-89S-5.0 306183-23	0.022
Method Blank	<0.002
Method Blank	<0.002

Date of Report: 07/25/13
Date Received: 06/12/13
Project: Crowley RIFS 101.00205.00019, F&BI 306183

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TPH AS GASOLINE USING METHOD NWTPH-Gx

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Gasoline	mg/kg (ppm)	10	90	90	61-153	0

Date of Report: 07/25/13
Date Received: 06/12/13
Project: Crowley RIFS 101.00205.00019, F&BI 306183

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 306183-03 (Matrix Spike) Silica Gel

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	500	<12	88	102	64-133	15

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	500	107	58-147

Date of Report: 07/25/13
Date Received: 06/12/13
Project: Crowley RIFS 101.00205.00019, F&BI 306183

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 306292-03 (Matrix Spike) Silica Gel

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	500	150	79	85	64-133	7

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	500	99	58-147

Date of Report: 07/25/13
Date Received: 06/12/13
Project: Crowley RIFS 101.00205.00019, F&BI 306183

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 306183-03 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	mg/kg (ppm)	2.5	<0.02	26	25	10-56	4
Chloromethane	mg/kg (ppm)	2.5	<0.026	51	52	10-90	2
Vinyl chloride	mg/kg (ppm)	2.5	<0.016	55	54	10-91	2
Bromomethane	mg/kg (ppm)	2.5	<0.034	66	48	10-110	32 vo
Chloroethane	mg/kg (ppm)	2.5	<0.024	65	62	10-101	5
Trichlorofluoromethane	mg/kg (ppm)	2.5	<0.02	63	63	10-95	0
Acetone	mg/kg (ppm)	12.5	<0.2	68	69	11-141	1
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.026	69	70	11-103	1
Methylene chloride	mg/kg (ppm)	2.5	<0.054	80	75	14-128	6
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2.5	<0.013	73	75	17-134	3
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.024	74	75	13-112	1
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.017	76	76	23-115	0
2,2-Dichloropropane	mg/kg (ppm)	2.5	<0.026	57	61	18-117	7
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.022	75	76	25-120	1
Chloroform	mg/kg (ppm)	2.5	<0.017	79	79	29-117	0
2-Butanone (MEK)	mg/kg (ppm)	12.5	<0.14	78	79	20-133	1
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.016	77	77	22-124	0
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.021	71	75	27-112	5
1,1-Dichloropropene	mg/kg (ppm)	2.5	<0.024	76	76	26-107	0
Carbon tetrachloride	mg/kg (ppm)	2.5	<0.03	71	76	22-115	7
Benzene	mg/kg (ppm)	2.5	<0.014	75	75	26-114	0
Trichloroethene	mg/kg (ppm)	2.5	<0.034	76	77	30-112	1
1,2-Dichloropropane	mg/kg (ppm)	2.5	<0.034	77	79	31-119	3
Bromodichloromethane	mg/kg (ppm)	2.5	<0.024	80	85	31-131	6
Dibromomethane	mg/kg (ppm)	2.5	<0.022	79	80	27-124	1
4-Methyl-2-pentanone	mg/kg (ppm)	12.5	<0.14	83	84	16-147	1
cis-1,3-Dichloropropene	mg/kg (ppm)	2.5	<0.022	75	79	28-137	5
Toluene	mg/kg (ppm)	2.5	<0.017	75	75	34-112	0
trans-1,3-Dichloropropene	mg/kg (ppm)	2.5	<0.015	71	76	30-136	7
1,1,2-Trichloroethane	mg/kg (ppm)	2.5	<0.014	80	79	32-126	1
2-Hexanone	mg/kg (ppm)	12.5	<0.096	79	80	17-147	1
1,3-Dichloropropane	mg/kg (ppm)	2.5	<0.02	78	78	29-125	0
Tetrachloroethene	mg/kg (ppm)	2.5	<0.026	79	79	27-110	0
Dibromochloromethane	mg/kg (ppm)	2.5	<0.026	80	85	32-143	6
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2.5	<0.03	74	78	32-126	5
Chlorobenzene	mg/kg (ppm)	2.5	<0.014	77	77	37-113	0
Ethylbenzene	mg/kg (ppm)	2.5	<0.013	77	77	38-111	0
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	2.5	<0.028	77	82	35-126	6
m,p-Xylene	mg/kg (ppm)	5	<0.03	77	77	38-112	0
o-Xylene	mg/kg (ppm)	2.5	<0.034	80	80	38-113	0
Styrene	mg/kg (ppm)	2.5	<0.022	81	81	38-118	0
Isopropylbenzene	mg/kg (ppm)	2.5	<0.019	79	79	37-114	0
Bromoform	mg/kg (ppm)	2.5	<0.034	79	83	18-155	5
n-Propylbenzene	mg/kg (ppm)	2.5	<0.017	79	80	36-114	1
Bromobenzene	mg/kg (ppm)	2.5	<0.012	79	78	40-115	1
1,3,5-Trimethylbenzene	mg/kg (ppm)	2.5	<0.011	81	81	35-116	0
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	2.5	<0.036	82	84	33-128	2
1,2,3-Trichloropropane	mg/kg (ppm)	2.5	<0.022	79	80	33-123	1
2-Chlorotoluene	mg/kg (ppm)	2.5	<0.016	77	77	39-110	0
4-Chlorotoluene	mg/kg (ppm)	2.5	<0.019	78	79	39-111	1
tert-Butylbenzene	mg/kg (ppm)	2.5	<0.022	79	80	36-116	1
1,2,4-Trimethylbenzene	mg/kg (ppm)	2.5	<0.016	78	79	35-116	1
sec-Butylbenzene	mg/kg (ppm)	2.5	<0.015	79	80	33-118	1
p-Isopropyltoluene	mg/kg (ppm)	2.5	<0.012	80	80	32-119	0
1,3-Dichlorobenzene	mg/kg (ppm)	2.5	<0.020	76	77	38-111	1
1,4-Dichlorobenzene	mg/kg (ppm)	2.5	<0.032	75	75	39-109	0
1,2-Dichlorobenzene	mg/kg (ppm)	2.5	<0.016	77	77	40-111	0
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	2.5	<0.08	71	78	34-134	9
1,2,4-Trichlorobenzene	mg/kg (ppm)	2.5	<0.036	74	75	31-117	1
Hexachlorobutadiene	mg/kg (ppm)	2.5	<0.04	73	74	25-122	1
Naphthalene	mg/kg (ppm)	2.5	<0.024	78	79	39-120	1
1,2,3-Trichlorobenzene	mg/kg (ppm)	2.5	<0.019	73	74	35-117	1

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Dichlorodifluoromethane	mg/kg (ppm)	2.5	44	10-76
Chloromethane	mg/kg (ppm)	2.5	65	34-98
Vinyl chloride	mg/kg (ppm)	2.5	70	42-107
Bromomethane	mg/kg (ppm)	2.5	69	46-113
Chloroethane	mg/kg (ppm)	2.5	75	47-115
Trichlorofluoromethane	mg/kg (ppm)	2.5	79	53-112
Acetone	mg/kg (ppm)	12.5	74	39-147
1,1-Dichloroethene	mg/kg (ppm)	2.5	82	65-110
Methylene chloride	mg/kg (ppm)	2.5	84	62-119
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2.5	81	72-122
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	85	71-113
1,1-Dichloroethane	mg/kg (ppm)	2.5	85	76-109
2,2-Dichloropropane	mg/kg (ppm)	2.5	69	64-151
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	85	77-110
Chloroform	mg/kg (ppm)	2.5	87	78-108
2-Butanone (MEK)	mg/kg (ppm)	12.5	87	60-121
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	84	80-109
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	85	72-116
1,1-Dichloropropene	mg/kg (ppm)	2.5	86	77-108
Carbon tetrachloride	mg/kg (ppm)	2.5	91	67-123
Benzene	mg/kg (ppm)	2.5	84	75-107
Trichloroethene	mg/kg (ppm)	2.5	85	72-107
1,2-Dichloropropane	mg/kg (ppm)	2.5	87	78-111
Bromodichloromethane	mg/kg (ppm)	2.5	97	75-126
Dibromomethane	mg/kg (ppm)	2.5	89	80-111
4-Methyl-2-pentanone	mg/kg (ppm)	12.5	92	80-128
cis-1,3-Dichloropropene	mg/kg (ppm)	2.5	89	71-138
Toluene	mg/kg (ppm)	2.5	83	79-112
trans-1,3-Dichloropropene	mg/kg (ppm)	2.5	85	77-135
1,1,2-Trichloroethane	mg/kg (ppm)	2.5	88	84-115
2-Hexanone	mg/kg (ppm)	12.5	86	71-129
1,3-Dichloropropane	mg/kg (ppm)	2.5	85	82-113
Tetrachloroethene	mg/kg (ppm)	2.5	88	77-110
Dibromochloromethane	mg/kg (ppm)	2.5	98	64-152
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2.5	89	83-116
Chlorobenzene	mg/kg (ppm)	2.5	84	82-113
Ethylbenzene	mg/kg (ppm)	2.5	86	81-114
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	2.5	92	76-125
m,p-Xylene	mg/kg (ppm)	5	86	82-115
o-Xylene	mg/kg (ppm)	2.5	89	81-116
Styrene	mg/kg (ppm)	2.5	89	81-118
Isopropylbenzene	mg/kg (ppm)	2.5	88	81-117
Bromoform	mg/kg (ppm)	2.5	98	50-174
n-Propylbenzene	mg/kg (ppm)	2.5	87	82-116
Bromobenzene	mg/kg (ppm)	2.5	86	82-118
1,3,5-Trimethylbenzene	mg/kg (ppm)	2.5	89	83-120
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	2.5	92	83-125
1,2,3-Trichloropropane	mg/kg (ppm)	2.5	86	79-116
2-Chlorotoluene	mg/kg (ppm)	2.5	85	80-114
4-Chlorotoluene	mg/kg (ppm)	2.5	85	82-114
tert-Butylbenzene	mg/kg (ppm)	2.5	87	82-116
1,2,4-Trimethylbenzene	mg/kg (ppm)	2.5	87	82-116
sec-Butylbenzene	mg/kg (ppm)	2.5	88	81-123
p-Isopropyltoluene	mg/kg (ppm)	2.5	88	82-124
1,3-Dichlorobenzene	mg/kg (ppm)	2.5	84	80-118
1,4-Dichlorobenzene	mg/kg (ppm)	2.5	82	79-117
1,2-Dichlorobenzene	mg/kg (ppm)	2.5	84	80-118
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	2.5	87	71-131
1,2,4-Trichlorobenzene	mg/kg (ppm)	2.5	82	75-122
Hexachlorobutadiene	mg/kg (ppm)	2.5	83	74-130
Naphthalene	mg/kg (ppm)	2.5	86	83-128
1,2,3-Trichlorobenzene	mg/kg (ppm)	2.5	81	80-126

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 306270-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	mg/kg (ppm)	2.5	<0.02	25	22	10-56	13
Chloromethane	mg/kg (ppm)	2.5	<0.026	53	49	10-90	8
Vinyl chloride	mg/kg (ppm)	2.5	<0.016	55	51	10-91	8
Bromomethane	mg/kg (ppm)	2.5	<0.034	90	83	10-110	8
Chloroethane	mg/kg (ppm)	2.5	<0.024	73	70	10-101	4
Trichlorofluoromethane	mg/kg (ppm)	2.5	<0.02	68	64	10-95	6
Acetone	mg/kg (ppm)	12.5	<0.2	115	106	11-141	8
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.026	74	68	11-103	8
Methylene chloride	mg/kg (ppm)	2.5	<0.054	99	96	14-128	3
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2.5	<0.013	98	94	17-134	4
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.024	84	79	13-112	6
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.017	87	82	23-115	6
2,2-Dichloropropane	mg/kg (ppm)	2.5	<0.026	97	95	18-117	2
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.022	88	82	25-120	7
Chloroform	mg/kg (ppm)	2.5	<0.017	89	84	29-117	6
2-Butanone (MEK)	mg/kg (ppm)	12.5	<0.14	104	99	20-133	5
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.016	89	85	22-124	5
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.022	95	91	27-112	4
1,1-Dichloropropene	mg/kg (ppm)	2.5	<0.024	84	80	26-107	5
Carbon tetrachloride	mg/kg (ppm)	2.5	<0.03	108	101	22-115	7
Benzene	mg/kg (ppm)	2.5	<0.014	85	81	26-114	5
Trichloroethene	mg/kg (ppm)	2.5	<0.034	87	83	30-112	5
1,2-Dichloropropane	mg/kg (ppm)	2.5	<0.034	91	88	31-119	3
Bromodichloromethane	mg/kg (ppm)	2.5	<0.024	101	95	31-131	6
Dibromomethane	mg/kg (ppm)	2.5	<0.022	94	88	27-124	7
4-Methyl-2-pentanone	mg/kg (ppm)	12.5	<0.14	104	97	16-147	7
cis-1,3-Dichloropropene	mg/kg (ppm)	2.5	<0.022	111	104	28-137	7
Toluene	mg/kg (ppm)	2.5	<0.017	84	80	34-112	5
trans-1,3-Dichloropropene	mg/kg (ppm)	2.5	<0.015	100	96	30-136	4
1,1,2-Trichloroethane	mg/kg (ppm)	2.5	<0.014	93	89	32-126	4
2-Hexanone	mg/kg (ppm)	12.5	<0.096	108	101	17-147	7
1,3-Dichloropropane	mg/kg (ppm)	2.5	<0.02	91	88	29-125	3
Tetrachloroethene	mg/kg (ppm)	2.5	<0.026	83	80	27-110	4
Dibromochloromethane	mg/kg (ppm)	2.5	<0.026	100	96	32-143	4
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2.5	<0.03	113	108	32-126	5
Chlorobenzene	mg/kg (ppm)	2.5	<0.014	86	83	37-113	4
Ethylbenzene	mg/kg (ppm)	2.5	<0.013	86	82	38-111	5
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	2.5	<0.028	111	106	35-126	5
m,p-Xylene	mg/kg (ppm)	5	<0.03	87	84	38-112	4
o-Xylene	mg/kg (ppm)	2.5	<0.034	86	83	38-113	4
Styrene	mg/kg (ppm)	2.5	<0.022	89	85	38-118	5
Isopropylbenzene	mg/kg (ppm)	2.5	<0.019	87	83	37-114	5
Bromoform	mg/kg (ppm)	2.5	<0.034	103	96	18-155	7
n-Propylbenzene	mg/kg (ppm)	2.5	<0.017	89	85	36-114	5
Bromobenzene	mg/kg (ppm)	2.5	<0.012	89	85	40-115	5
1,3,5-Trimethylbenzene	mg/kg (ppm)	2.5	<0.011	90	85	35-116	6
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	2.5	<0.036	99	94	33-128	5
1,2,3-Trichloropropane	mg/kg (ppm)	2.5	<0.022	92	88	33-123	4
2-Chlorotoluene	mg/kg (ppm)	2.5	<0.016	87	83	39-110	5
4-Chlorotoluene	mg/kg (ppm)	2.5	<0.019	89	84	39-111	6
tert-Butylbenzene	mg/kg (ppm)	2.5	<0.022	90	86	36-116	5
1,2,4-Trimethylbenzene	mg/kg (ppm)	2.5	<0.016	88	84	35-116	5
sec-Butylbenzene	mg/kg (ppm)	2.5	<0.015	90	86	33-118	5
p-Isopropyltoluene	mg/kg (ppm)	2.5	<0.012	90	85	32-119	6
1,3-Dichlorobenzene	mg/kg (ppm)	2.5	<0.02	87	82	38-111	6
1,4-Dichlorobenzene	mg/kg (ppm)	2.5	<0.032	86	82	39-109	5
1,2-Dichlorobenzene	mg/kg (ppm)	2.5	<0.016	86	82	40-111	5
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	2.5	<0.08	102	97	34-134	5
1,2,4-Trichlorobenzene	mg/kg (ppm)	2.5	<0.036	81	75	31-117	8
Hexachlorobutadiene	mg/kg (ppm)	2.5	<0.04	77	74	25-122	4
Naphthalene	mg/kg (ppm)	2.5	<0.024	86	81	39-120	6
1,2,3-Trichlorobenzene	mg/kg (ppm)	2.5	<0.019	75	73	35-117	3

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Dichlorodifluoromethane	mg/kg (ppm)	2.5	55	10-76
Chloromethane	mg/kg (ppm)	2.5	76	34-98
Vinyl chloride	mg/kg (ppm)	2.5	82	42-107
Bromomethane	mg/kg (ppm)	2.5	92	46-113
Chloroethane	mg/kg (ppm)	2.5	91	47-115
Trichlorofluoromethane	mg/kg (ppm)	2.5	94	53-112
Acetone	mg/kg (ppm)	12.5	97	39-147
1,1-Dichloroethene	mg/kg (ppm)	2.5	92	65-110
Methylene chloride	mg/kg (ppm)	2.5	97	62-119
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2.5	105	72-122
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	99	71-113
1,1-Dichloroethane	mg/kg (ppm)	2.5	99	76-109
2,2-Dichloropropane	mg/kg (ppm)	2.5	116	64-151
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	98	77-110
Chloroform	mg/kg (ppm)	2.5	99	78-108
2-Butanone (MEK)	mg/kg (ppm)	12.5	101	60-121
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	98	80-109
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	112	72-116
1,1-Dichloropropene	mg/kg (ppm)	2.5	98	77-108
Carbon tetrachloride	mg/kg (ppm)	2.5	134	67-123
Benzene	mg/kg (ppm)	2.5	96	75-107
Trichloroethene	mg/kg (ppm)	2.5	99	72-107
1,2-Dichloropropane	mg/kg (ppm)	2.5	102	78-111
Bromodichloromethane	mg/kg (ppm)	2.5	117	75-126
Dibromomethane	mg/kg (ppm)	2.5	105	80-111
4-Methyl-2-pentanone	mg/kg (ppm)	12.5	108	80-128
cis-1,3-Dichloropropene	mg/kg (ppm)	2.5	123	71-138
Toluene	mg/kg (ppm)	2.5	95	79-112
trans-1,3-Dichloropropene	mg/kg (ppm)	2.5	111	77-135
1,1,2-Trichloroethane	mg/kg (ppm)	2.5	102	84-115
2-Hexanone	mg/kg (ppm)	12.5	105	71-129
1,3-Dichloropropane	mg/kg (ppm)	2.5	100	82-113
Tetrachloroethene	mg/kg (ppm)	2.5	96	77-110
Dibromochloromethane	mg/kg (ppm)	2.5	119	64-152
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2.5	127	83-116
Chlorobenzene	mg/kg (ppm)	2.5	97	82-113
Ethylbenzene	mg/kg (ppm)	2.5	96	81-114
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	2.5	133	76-125
m,p-Xylene	mg/kg (ppm)	5	98	82-115
o-Xylene	mg/kg (ppm)	2.5	97	81-116
Styrene	mg/kg (ppm)	2.5	99	81-118
Isopropylbenzene	mg/kg (ppm)	2.5	98	81-117
Bromoform	mg/kg (ppm)	2.5	127	50-174
n-Propylbenzene	mg/kg (ppm)	2.5	99	82-116
Bromobenzene	mg/kg (ppm)	2.5	98	82-118
1,3,5-Trimethylbenzene	mg/kg (ppm)	2.5	101	83-120
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	2.5	107	83-125
1,2,3-Trichloropropane	mg/kg (ppm)	2.5	100	79-116
2-Chlorotoluene	mg/kg (ppm)	2.5	95	80-114
4-Chlorotoluene	mg/kg (ppm)	2.5	98	82-114
tert-Butylbenzene	mg/kg (ppm)	2.5	100	82-116
1,2,4-Trimethylbenzene	mg/kg (ppm)	2.5	99	82-116
sec-Butylbenzene	mg/kg (ppm)	2.5	100	81-123
p-Isopropyltoluene	mg/kg (ppm)	2.5	100	82-124
1,3-Dichlorobenzene	mg/kg (ppm)	2.5	97	80-118
1,4-Dichlorobenzene	mg/kg (ppm)	2.5	86	79-117
1,2-Dichlorobenzene	mg/kg (ppm)	2.5	55	80-118
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	2.5	76	71-131
1,2,4-Trichlorobenzene	mg/kg (ppm)	2.5	82	75-122
Hexachlorobutadiene	mg/kg (ppm)	2.5	92	74-130
Naphthalene	mg/kg (ppm)	2.5	91	83-128
1,2,3-Trichlorobenzene	mg/kg (ppm)	2.5	94	80-126

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 306247-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Dichlorodifluoromethane	ug/L (ppb)	50	<0.16	105	55-144
Chloromethane	ug/L (ppb)	50	<0.22	104	67-131
Vinyl chloride	ug/L (ppb)	50	0.52	106	61-139
Bromomethane	ug/L (ppb)	50	<0.2	635 vo	66-129
Chloroethane	ug/L (ppb)	50	<0.18	191 vo	68-126
Trichlorofluoromethane	ug/L (ppb)	50	<0.17	136 vo	71-128
Acetone	ug/L (ppb)	250	<2.6	109	48-149
1,1-Dichloroethene	ug/L (ppb)	50	<0.19	105	71-123
Methylene chloride	ug/L (ppb)	50	<3	101	61-126
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	<0.13	106	68-125
trans-1,2-Dichloroethene	ug/L (ppb)	50	<0.24	104	72-122
1,1-Dichloroethane	ug/L (ppb)	50	<0.18	103	79-113
2,2-Dichloropropane	ug/L (ppb)	50	<0.3	119	58-132
cis-1,2-Dichloroethene	ug/L (ppb)	50	3.6	102	73-119
Chloroform	ug/L (ppb)	50	<0.24	100	80-112
2-Butanone (MEK)	ug/L (ppb)	250	<0.94	105	69-123
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<0.11	100	78-113
1,1,1-Trichloroethane	ug/L (ppb)	50	<0.2	113	79-116
1,1-Dichloropropene	ug/L (ppb)	50	<0.26	99	67-121
Carbon tetrachloride	ug/L (ppb)	50	<0.24	128 vo	72-123
Benzene	ug/L (ppb)	50	<0.13	98	79-109
Trichloroethene	ug/L (ppb)	50	1.4	100	75-109
1,2-Dichloropropane	ug/L (ppb)	50	<0.32	101	80-111
Bromodichloromethane	ug/L (ppb)	50	<0.38	116	78-117
Dibromomethane	ug/L (ppb)	50	<0.28	106	80-112
4-Methyl-2-pentanone	ug/L (ppb)	250	<1.3	111	79-123
cis-1,3-Dichloropropene	ug/L (ppb)	50	<0.2	116	76-120
Toluene	ug/L (ppb)	50	<0.13	96	73-117
trans-1,3-Dichloropropene	ug/L (ppb)	50	<0.34	105	75-122
1,1,2-Trichloroethane	ug/L (ppb)	50	<0.28	102	81-111
2-Hexanone	ug/L (ppb)	250	<1	111	75-126
1,3-Dichloropropane	ug/L (ppb)	50	<0.2	100	81-111
Tetrachloroethene	ug/L (ppb)	50	<0.28	97	72-113
Dibromochloromethane	ug/L (ppb)	50	<0.24	113	69-129
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	<0.24	124 vo	83-114
Chlorobenzene	ug/L (ppb)	50	<0.1	98	75-115
Ethylbenzene	ug/L (ppb)	50	<0.16	98	71-120
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	<0.32	128 vo	78-122
m,p-Xylene	ug/L (ppb)	100	<0.5	100	63-128
o-Xylene	ug/L (ppb)	50	<0.22	100	64-129
Styrene	ug/L (ppb)	50	<0.22	101	70-122
Isopropylbenzene	ug/L (ppb)	50	<0.15	101	76-118
Bromoform	ug/L (ppb)	50	<0.22	117	49-138
n-Propylbenzene	ug/L (ppb)	50	<0.14	99	74-117
Bromobenzene	ug/L (ppb)	50	<0.18	98	70-121
1,3,5-Trimethylbenzene	ug/L (ppb)	50	<0.18	102	81-112
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	<0.24	109	79-120
1,2,3-Trichloropropane	ug/L (ppb)	50	<0.28	101	72-119
2-Chlorotoluene	ug/L (ppb)	50	<0.13	97	77-114
4-Chlorotoluene	ug/L (ppb)	50	<0.16	98	81-109
tert-Butylbenzene	ug/L (ppb)	50	<0.15	101	81-116
1,2,4-Trimethylbenzene	ug/L (ppb)	50	<0.11	101	74-118
sec-Butylbenzene	ug/L (ppb)	50	<0.12	101	77-118
p-Isopropyltoluene	ug/L (ppb)	50	<0.15	101	64-132
1,3-Dichlorobenzene	ug/L (ppb)	50	<0.15	97	81-111
1,4-Dichlorobenzene	ug/L (ppb)	50	<0.094	97	78-110
1,2-Dichlorobenzene	ug/L (ppb)	50	<0.13	97	81-111
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	<0.44	112	69-129
1,2,4-Trichlorobenzene	ug/L (ppb)	50	<0.34	94	74-115
Hexachlorobutadiene	ug/L (ppb)	50	<0.46	89	67-120
Naphthalene	ug/L (ppb)	50	<0.28	102	63-136
1,2,3-Trichlorobenzene	ug/L (ppb)	50	<0.38	90	79-115

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	ug/L (ppb)	50	100	104	54-149	4
Chloromethane	ug/L (ppb)	50	97	102	67-133	5
Vinyl chloride	ug/L (ppb)	50	98	103	73-132	5
Bromomethane	ug/L (ppb)	50	604 vo	614 vo	69-123	2
Chloroethane	ug/L (ppb)	50	175 vo	186 vo	68-126	6
Trichlorofluoromethane	ug/L (ppb)	50	123	132	70-132	7
Acetone	ug/L (ppb)	250	102	110	44-145	8
1,1-Dichloroethene	ug/L (ppb)	50	100	106	75-119	6
Methylene chloride	ug/L (ppb)	50	98	104	63-132	6
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	91	98	70-122	7
trans-1,2-Dichloroethene	ug/L (ppb)	50	98	104	76-118	6
1,1-Dichloroethane	ug/L (ppb)	50	96	102	80-116	6
2,2-Dichloropropane	ug/L (ppb)	50	111	125	62-141	12
cis-1,2-Dichloroethene	ug/L (ppb)	50	95	100	81-111	5
Chloroform	ug/L (ppb)	50	118 vo	124 vo	81-109	5
2-Butanone (MEK)	ug/L (ppb)	250	98	101	53-140	3
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	93	98	79-109	5
1,1,1-Trichloroethane	ug/L (ppb)	50	106	113	80-116	6
1,1-Dichloropropene	ug/L (ppb)	50	94	99	78-112	5
Carbon tetrachloride	ug/L (ppb)	50	128	136 vo	72-128	6
Benzene	ug/L (ppb)	50	93	96	81-108	3
Trichloroethene	ug/L (ppb)	50	94	99	77-108	5
1,2-Dichloropropane	ug/L (ppb)	50	96	101	82-109	5
Bromodichloromethane	ug/L (ppb)	50	116	121 vo	76-120	4
Dibromomethane	ug/L (ppb)	50	100	105	80-110	5
4-Methyl-2-pentanone	ug/L (ppb)	250	104	110	59-142	6
cis-1,3-Dichloropropene	ug/L (ppb)	50	113	120	76-128	6
Toluene	ug/L (ppb)	50	92	96	83-108	4
trans-1,3-Dichloropropene	ug/L (ppb)	50	104	108	76-128	4
1,1,2-Trichloroethane	ug/L (ppb)	50	97	101	82-110	4
2-Hexanone	ug/L (ppb)	250	99	105	53-145	6
1,3-Dichloropropane	ug/L (ppb)	50	94	99	83-110	5
Tetrachloroethene	ug/L (ppb)	50	91	94	78-109	3
Dibromochloromethane	ug/L (ppb)	50	118	123	63-140	4
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	118 vo	124 vo	85-113	5
Chlorobenzene	ug/L (ppb)	50	92	96	84-108	4
Ethylbenzene	ug/L (ppb)	50	93	97	84-110	4
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	128 vo	135 vo	76-125	5
m,p-Xylene	ug/L (ppb)	100	95	99	84-112	4
o-Xylene	ug/L (ppb)	50	94	100	82-113	6
Styrene	ug/L (ppb)	50	96	101	84-116	5
Isopropylbenzene	ug/L (ppb)	50	95	100	81-122	5
Bromoform	ug/L (ppb)	50	127	130	40-161	2
n-Propylbenzene	ug/L (ppb)	50	95	99	81-115	4
Bromobenzene	ug/L (ppb)	50	93	96	80-113	3
1,3,5-Trimethylbenzene	ug/L (ppb)	50	97	102	83-117	5
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	105	110	79-118	5
1,2,3-Trichloropropane	ug/L (ppb)	50	96	100	74-116	4
2-Chlorotoluene	ug/L (ppb)	50	94	97	79-112	3
4-Chlorotoluene	ug/L (ppb)	50	94	98	81-113	4
tert-Butylbenzene	ug/L (ppb)	50	97	101	81-119	4
1,2,4-Trimethylbenzene	ug/L (ppb)	50	96	100	83-116	4
sec-Butylbenzene	ug/L (ppb)	50	97	102	83-116	5
p-Isopropyltoluene	ug/L (ppb)	50	98	102	82-119	4
1,3-Dichlorobenzene	ug/L (ppb)	50	92	97	83-111	5
1,4-Dichlorobenzene	ug/L (ppb)	50	92	95	82-109	3
1,2-Dichlorobenzene	ug/L (ppb)	50	92	96	83-111	4
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	124	125	62-133	1
1,2,4-Trichlorobenzene	ug/L (ppb)	50	93	95	77-117	2
Hexachlorobutadiene	ug/L (ppb)	50	89	95	74-118	7
Naphthalene	ug/L (ppb)	50	98	102	75-131	4
1,2,3-Trichlorobenzene	ug/L (ppb)	50	91	94	82-115	3

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270D

Laboratory Code: 306183-16 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Phenol	mg/kg (ppm)	1.7	<0.0054	82	80	50-150	2
Bis(2-chloroethyl) ether	mg/kg (ppm)	1.7	<0.0016	79	73	50-150	8
2-Chlorophenol	mg/kg (ppm)	1.7	<0.0062	87	84	50-150	4
1,3-Dichlorobenzene	mg/kg (ppm)	1.7	<0.0026	79	73	50-150	8
1,4-Dichlorobenzene	mg/kg (ppm)	1.7	<0.0024	79	74	50-150	7
1,2-Dichlorobenzene	mg/kg (ppm)	1.7	<0.004	82	75	50-150	9
Benzyl alcohol	mg/kg (ppm)	1.7	<0.005	88	83	50-150	6
Bis(2-chloroisopropyl) ether	mg/kg (ppm)	1.7	<0.0016	74	69	50-150	7
2-Methylphenol	mg/kg (ppm)	1.7	<0.0064	87	85	50-150	2
Hexachloroethane	mg/kg (ppm)	1.7	<0.0034	75	68	50-150	10
N-Nitroso-di-n-propylamine	mg/kg (ppm)	1.7	<0.003	86	82	50-150	5
3-Methylphenol + 4-Methylphenol	mg/kg (ppm)	1.7	<0.014	91	89	50-150	2
Nitrobenzene	mg/kg (ppm)	1.7	<0.0026	86	80	50-150	7
Isophorone	mg/kg (ppm)	1.7	<0.0012	83	86	50-150	4
2-Nitrophenol	mg/kg (ppm)	1.7	<0.0082	94	91	50-150	3
2,4-Dimethylphenol	mg/kg (ppm)	1.7	<0.019	88	87	50-150	1
Benzoic acid	mg/kg (ppm)	2.5	<0.055	122	124	50-150	2
Bis(2-chloroethoxy)methane	mg/kg (ppm)	1.7	<0.0014	85	84	50-150	1
2,4-Dichlorophenol	mg/kg (ppm)	1.7	<0.0058	97	97	50-150	0
1,2,4-Trichlorobenzene	mg/kg (ppm)	1.7	<0.0034	87	86	50-150	1
Hexachlorobutadiene	mg/kg (ppm)	1.7	<0.002	86	85	50-150	1
4-Chloroaniline	mg/kg (ppm)	3.3	<0.18	12 vo	14 vo	50-150	15
4-Chloro-3-methylphenol	mg/kg (ppm)	1.7	<0.0044	99	99	50-150	0
2-Methylnaphthalene	mg/kg (ppm)	1.7	<0.001	87	88	50-150	1
Hexachlorocyclopentadiene	mg/kg (ppm)	1.7	<0.0022	53	39 vo	50-150	30 vo
2,4,6-Trichlorophenol	mg/kg (ppm)	1.7	<0.008	99	97	50-150	2
2,4,5-Trichlorophenol	mg/kg (ppm)	1.7	<0.0096	95	104	50-150	9
2-Chloronaphthalene	mg/kg (ppm)	1.7	<0.0014	89	92	50-150	3
2-Nitroaniline	mg/kg (ppm)	1.7	<0.0026	93	98	50-150	5
Dimethyl phthalate	mg/kg (ppm)	1.7	<0.0012	93	95	50-150	2
2,6-Dinitrotoluene	mg/kg (ppm)	1.7	<0.0018	90	91	50-150	1
3-Nitroaniline	mg/kg (ppm)	3.3	<0.017	31 vo	33 vo	50-150	6
2,4-Dinitrophenol	mg/kg (ppm)	1.7	<0.014	50	8 vo	50-150	145 vo
Dibenzofuran	mg/kg (ppm)	1.7	<0.001	91	94	50-150	3
2,4-Dinitrotoluene	mg/kg (ppm)	1.7	<0.0016	80	79	50-150	1
4-Nitrophenol	mg/kg (ppm)	1.7	<0.018	93	101	50-150	8
Diethyl phthalate	mg/kg (ppm)	1.7	<0.004	84	93	50-150	10
4-Chlorophenyl phenyl ether	mg/kg (ppm)	1.7	<0.0016	91	94	50-150	3
N-Nitrosodiphenylamine	mg/kg (ppm)	1.7	<0.001	94	93	50-150	1
4-Nitroaniline	mg/kg (ppm)	3.3	<0.018	31 vo	37 vo	50-150	18
4,6-Dinitro-2-methylphenol	mg/kg (ppm)	1.7	<0.011	56	31 vo	50-150	57 vo
4-Bromophenyl phenyl ether	mg/kg (ppm)	1.7	<0.0016	97	101	50-150	4
Hexachlorobenzene	mg/kg (ppm)	1.7	<0.001	97	97	50-150	0
Pentachlorophenol	mg/kg (ppm)	1.7	<0.0062	106	109	50-150	3
Carbazole	mg/kg (ppm)	1.7	<0.002	86	88	50-150	2
Di-n-butyl phthalate	mg/kg (ppm)	1.7	<0.02	89	90	50-150	1
Benzyl butyl phthalate	mg/kg (ppm)	1.7	<0.0058	15 vo	29 vo	50-150	64 vo
Bis(2-ethylhexyl) phthalate	mg/kg (ppm)	1.7	<0.013	21 vo	41 vo	50-150	65 vo
Di-n-octyl phthalate	mg/kg (ppm)	1.7	<0.0034	95	106	50-150	11

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270D

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Phenol	mg/kg (ppm)	1.7	88	95	51-119	8
Bis(2-chloroethyl) ether	mg/kg (ppm)	1.7	87	84	60-112	4
2-Chlorophenol	mg/kg (ppm)	1.7	91	95	59-114	4
1,3-Dichlorobenzene	mg/kg (ppm)	1.7	86	87	62-113	1
1,4-Dichlorobenzene	mg/kg (ppm)	1.7	87	89	61-114	2
1,2-Dichlorobenzene	mg/kg (ppm)	1.7	88	91	61-113	3
Benzyl alcohol	mg/kg (ppm)	1.7	94	98	50-119	4
Bis(2-chloroisopropyl) ether	mg/kg (ppm)	1.7	81	83	59-113	2
2-Methylphenol	mg/kg (ppm)	1.7	86	95	58-115	10
Hexachloroethane	mg/kg (ppm)	1.7	86	89	63-114	3
N-Nitroso-di-n-propylamine	mg/kg (ppm)	1.7	93	99	62-114	6
3-Methylphenol + 4-Methylphenol	mg/kg (ppm)	1.7	88	99	54-120	12
Nitrobenzene	mg/kg (ppm)	1.7	92	92	59-114	0
Isophorone	mg/kg (ppm)	1.7	95	94	61-113	1
2-Nitrophenol	mg/kg (ppm)	1.7	102	104	59-114	2
2,4-Dimethylphenol	mg/kg (ppm)	1.7	74	84	54-107	13
Benzoic acid	mg/kg (ppm)	2.5	125	129	43-150	3
Bis(2-chloroethoxy)methane	mg/kg (ppm)	1.7	90	93	60-114	3
2,4-Dichlorophenol	mg/kg (ppm)	1.7	99	104	57-118	5
1,2,4-Trichlorobenzene	mg/kg (ppm)	1.7	91	92	56-112	1
Hexachlorobutadiene	mg/kg (ppm)	1.7	90	92	60-116	2
4-Chloroaniline	mg/kg (ppm)	3.3	61	62	10-126	2
4-Chloro-3-methylphenol	mg/kg (ppm)	1.7	99	105	59-115	6
2-Methylnaphthalene	mg/kg (ppm)	1.7	88	93	60-115	6
Hexachlorocyclopentadiene	mg/kg (ppm)	1.7	97	95	41-107	2
2,4,6-Trichlorophenol	mg/kg (ppm)	1.7	101	101	47-119	0
2,4,5-Trichlorophenol	mg/kg (ppm)	1.7	102	103	61-121	1
2-Chloronaphthalene	mg/kg (ppm)	1.7	95	96	58-114	1
2-Nitroaniline	mg/kg (ppm)	1.7	102	103	55-119	1
Dimethyl phthalate	mg/kg (ppm)	1.7	99	99	58-116	0
2,6-Dinitrotoluene	mg/kg (ppm)	1.7	108	109	57-119	1
3-Nitroaniline	mg/kg (ppm)	3.3	86	88	10-143	2
2,4-Dinitrophenol	mg/kg (ppm)	1.7	120	106	40-122	12
Dibenzofuran	mg/kg (ppm)	1.7	98	100	56-115	2
2,4-Dinitrotoluene	mg/kg (ppm)	1.7	102	100	53-126	2
4-Nitrophenol	mg/kg (ppm)	1.7	105	102	40-124	3
Diethyl phthalate	mg/kg (ppm)	1.7	100	99	57-116	1
4-Chlorophenyl phenyl ether	mg/kg (ppm)	1.7	97	98	54-119	1
N-Nitrosodiphenylamine	mg/kg (ppm)	1.7	94	97	54-113	3
4-Nitroaniline	mg/kg (ppm)	3.3	96	97	47-109	1
4,6-Dinitro-2-methylphenol	mg/kg (ppm)	1.7	117 vo	107	57-108	9
4-Bromophenyl phenyl ether	mg/kg (ppm)	1.7	99	100	56-116	1
Hexachlorobenzene	mg/kg (ppm)	1.7	100	101	57-115	1
Pentachlorophenol	mg/kg (ppm)	1.7	110	110	45-123	0
Carbazole	mg/kg (ppm)	1.7	97	100	57-116	3
Di-n-butyl phthalate	mg/kg (ppm)	1.7	101	104	56-118	3
Benzyl butyl phthalate	mg/kg (ppm)	1.7	107	109	56-122	2
Bis(2-ethylhexyl) phthalate	mg/kg (ppm)	1.7	103	110	56-125	7
Di-n-octyl phthalate	mg/kg (ppm)	1.7	109	111	58-120	2

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270D

Laboratory Code: 306220-17 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20
2-Methylnaphthalene	mg/kg (ppm)	1.7	<0.001	59	68	50-150	14

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270D

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
2-Methylnaphthalene	mg/kg (ppm)	1.7	83	82	60-115	1

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR PNA'S BY EPA METHOD 8270D SIM

Laboratory Code: 306183-10 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.17	<0.00022	65	66	44-129	2
Acenaphthylene	mg/kg (ppm)	0.17	<0.000091	75	80	52-121	6
Acenaphthene	mg/kg (ppm)	0.17	<0.00014	76	80	51-123	5
Fluorene	mg/kg (ppm)	0.17	<0.00015	98	108	37-137	10
Phenanthrene	mg/kg (ppm)	0.17	0.00075	79	87	45-124	10
Anthracene	mg/kg (ppm)	0.17	<0.000088	71	75	32-124	5
Fluoranthene	mg/kg (ppm)	0.17	<0.00028	89	101	50-125	13
Pyrene	mg/kg (ppm)	0.17	<0.00026	92	98	41-135	6
Benz(a)anthracene	mg/kg (ppm)	0.17	<0.00018	75	87	23-144	15
Chrysene	mg/kg (ppm)	0.17	<0.00019	74	79	45-122	7
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	<0.00018	73	80	31-144	9
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	<0.00036	72	72	45-130	0
Benzo(a)pyrene	mg/kg (ppm)	0.17	<0.00022	62	68	39-128	9
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	<0.00062	71	79	28-146	11
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	<0.00034	69	77	46-129	11
Benzo(g,h,i)perylene	mg/kg (ppm)	0.17	<0.00034	69	71	37-133	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.17	88	88	58-121	0
Acenaphthylene	mg/kg (ppm)	0.17	94	96	54-121	2
Acenaphthene	mg/kg (ppm)	0.17	93	95	54-123	2
Fluorene	mg/kg (ppm)	0.17	120	120	56-127	0
Phenanthrene	mg/kg (ppm)	0.17	96	97	55-122	1
Anthracene	mg/kg (ppm)	0.17	90	90	50-120	0
Fluoranthene	mg/kg (ppm)	0.17	111	108	54-129	3
Pyrene	mg/kg (ppm)	0.17	110	111	53-127	1
Benz(a)anthracene	mg/kg (ppm)	0.17	99	102	51-115	3
Chrysene	mg/kg (ppm)	0.17	91	93	55-129	2
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	96	97	56-123	1
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	84	86	54-131	2
Benzo(a)pyrene	mg/kg (ppm)	0.17	80	78	51-118	3
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	97	97	49-148	0
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	93	93	50-141	0
Benzo(g,h,i)perylene	mg/kg (ppm)	0.17	87	87	52-131	0

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR PNA'S BY EPA METHOD 8270D SIM

Laboratory Code: 306220-06 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.17	<0.00022	66	54	44-129	20
Acenaphthylene	mg/kg (ppm)	0.17	<0.000091	72	61	52-121	17
Acenaphthene	mg/kg (ppm)	0.17	<0.00014	70	59	51-123	17
Fluorene	mg/kg (ppm)	0.17	<0.00015	74	64	37-137	14
Phenanthrene	mg/kg (ppm)	0.17	<0.00032	75	67	45-124	11
Anthracene	mg/kg (ppm)	0.17	<0.000088	73	65	32-124	12
Fluoranthene	mg/kg (ppm)	0.17	<0.00028	75	71	50-125	5
Pyrene	mg/kg (ppm)	0.17	<0.00026	80	72	41-135	11
Benz(a)anthracene	mg/kg (ppm)	0.17	<0.00018	73	68	23-144	7
Chrysene	mg/kg (ppm)	0.17	<0.00019	78	72	45-122	8
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	<0.00018	69	66	31-144	4
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	<0.00036	63	61	45-130	3
Benzo(a)pyrene	mg/kg (ppm)	0.17	<0.00022	66	64	39-128	3
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	<0.00062	75	71	28-146	5
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	<0.00034	68	62	46-129	9
Benzo(g,h,i)perylene	mg/kg (ppm)	0.17	<0.00034	64	60	37-133	6

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.17	84	74	58-121	13
Acenaphthylene	mg/kg (ppm)	0.17	85	81	54-121	5
Acenaphthene	mg/kg (ppm)	0.17	84	79	54-123	6
Fluorene	mg/kg (ppm)	0.17	86	83	56-127	4
Phenanthrene	mg/kg (ppm)	0.17	84	82	55-122	2
Anthracene	mg/kg (ppm)	0.17	76	74	50-120	3
Fluoranthene	mg/kg (ppm)	0.17	87	85	54-129	2
Pyrene	mg/kg (ppm)	0.17	87	85	53-127	2
Benz(a)anthracene	mg/kg (ppm)	0.17	84	81	51-115	4
Chrysene	mg/kg (ppm)	0.17	89	87	55-129	2
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	86	84	56-123	2
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	76	75	54-131	1
Benzo(a)pyrene	mg/kg (ppm)	0.17	72	70	51-118	3
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	94	91	49-148	3
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	86	84	50-141	2
Benzo(g,h,i)perylene	mg/kg (ppm)	0.17	82	79	52-131	4

Date of Report: 07/25/13
Date Received: 06/12/13
Project: Crowley RIFS 101.00205.00019, F&BI 306183

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS AS AROCLOR 1016/1260 BY EPA METHOD 8082A

Laboratory Code: 306183-08 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Control Limits	RPD (Limit 20)
Aroclor 1016	mg/kg (ppm)	0.8	<0.033	83	83	50-150	0
Aroclor 1260	mg/kg (ppm)	0.8	<0.033	87	89	50-150	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	Acceptance Criteria
Aroclor 1016	mg/kg (ppm)	0.8	81	70-130
Aroclor 1260	mg/kg (ppm	0.8	89	70-130

Date of Report: 07/25/13
Date Received: 06/12/13
Project: Crowley RIFS 101.00205.00019, F&BI 306183

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS AS AROCLOR 1016/1260 BY EPA METHOD 8082A

Laboratory Code: 306220-11 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Control Limits	RPD (Limit 20)
Aroclor 1016	mg/kg (ppm)	0.4	<0.033	125	151 vo	50-150	19
Aroclor 1260	mg/kg (ppm)	0.4	<0.033	118	139	50-150	16

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	Acceptance Criteria
Aroclor 1016	mg/kg (ppm)	0.4	94	70-130
Aroclor 1260	mg/kg (ppm)	0.4	86	70-130

Date of Report: 07/25/13
Date Received: 06/12/13
Project: Crowley RIFS 101.00205.00019, F&BI 306183

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 306183-03 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Beryllium	mg/kg (ppm)	5	0.141	101	103	67-138	2
Chromium	mg/kg (ppm)	50	12.4	84 b	86 b	57-128	2 b
Nickel	mg/kg (ppm)	25	24.0	77 b	81 b	69-112	5 b
Copper	mg/kg (ppm)	50	9.32	82	85	57-120	4
Zinc	mg/kg (ppm)	50	25.0	71 b	76 b	55-129	7 b
Arsenic	mg/kg (ppm)	10	1.97	90	97	70-118	7
Selenium	mg/kg (ppm)	5	<0.911	85	87	64-117	2
Silver	mg/kg (ppm)	10	<0.0785	96	98	73-122	2
Cadmium	mg/kg (ppm)	10	<0.203	99	100	83-116	1
Antimony	mg/kg (ppm)	20	0.200	94	96	54-116	2
Barium	mg/kg (ppm)	50	35.0	91 b	93 b	60-141	2 b
Thallium	mg/kg (ppm)	5	0.050	97	102	68-121	5
Lead	mg/kg (ppm)	50	3.20	99	101	59-148	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Beryllium	mg/kg (ppm)	5	110	69-146
Chromium	mg/kg (ppm)	50	98	78-121
Nickel	mg/kg (ppm)	25	98	82-122
Copper	mg/kg (ppm)	50	97	82-119
Zinc	mg/kg (ppm)	50	96	81-120
Arsenic	mg/kg (ppm)	10	94	83-113
Selenium	mg/kg (ppm)	5	94	84-115
Silver	mg/kg (ppm)	10	98	81-116
Cadmium	mg/kg (ppm)	10	99	54-114
Antimony	mg/kg (ppm)	20	97	69-114
Barium	mg/kg (ppm)	50	100	85-116
Thallium	mg/kg (ppm)	5	102	77-123
Lead	mg/kg (ppm)	50	102	80-120

Date of Report: 07/25/13
Date Received: 06/12/13
Project: Crowley RIFS 101.00205.00019, F&BI 306183

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 306220-15 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Copper	mg/kg (ppm)	50	9.44	98	102	57-120	4
Zinc	mg/kg (ppm)	50	15.2	96 b	103 b	55-129	7 b
Arsenic	mg/kg (ppm)	10	2.20	110 b	117 b	70-118	6 b
Silver	mg/kg (ppm)	10	<0.0784	113	119	73-122	5
Antimony	mg/kg (ppm)	20	0.621	95	105	54-116	10
Barium	mg/kg (ppm)	50	20.5	119 b	129 b	60-141	8 b
Thallium	mg/kg (ppm)	5	<0.0434	107	117	68-121	9
Lead	mg/kg (ppm)	50	4.31	109	118	59-148	8

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Copper	mg/kg (ppm)	50	100	82-119
Zinc	mg/kg (ppm)	50	97	81-120
Arsenic	mg/kg (ppm)	10	99	83-113
Silver	mg/kg (ppm)	10	104	81-116
Antimony	mg/kg (ppm)	20	95	69-114
Barium	mg/kg (ppm)	50	103	85-116
Thallium	mg/kg (ppm)	5	103	77-123
Lead	mg/kg (ppm)	50	103	80-120

Date of Report: 07/25/13
Date Received: 06/12/13
Project: Crowley RIFS 101.00205.00019, F&BI 306183

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Laboratory Code: 306183-03 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Mercury	mg/kg (ppm)	0.125	0.012	93	97	62-140	4

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Mercury	mg/kg (ppm)	0.125	90	63-131

Date of Report: 07/25/13
Date Received: 06/12/13
Project: Crowley RIFS 101.00205.00019, F&BI 306183

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Laboratory Code: 306220-15 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Mercury	mg/kg (ppm)	0.125	0.074	105 b	94 b	62-140	11 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Mercury	mg/kg (ppm)	0.125	87	63-131

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

306183

SAMPLE CHAIN OF CUSTODY

KJ 06-12-13

VSJ 6/13 BIJ 6/13 V1

Page # 1 of 3

Send Report To Mike Station

Company SLR International

Address 2215 20th Ave SE, G202

City, State, ZIP Bothell, WA 98021

Phone # 425-402-8800 Fax # 425-402-8488

SAMPLERS (signature) Andy Meyerst

PROJECT NAME/NO. Crowley RIFS 101.00205.00019

PO# 101.00205.00019

REMARKS
ANWTPH-Dx after silica gel cleanup
Hold all for CA or
email copy of COC to mstation@slrconsulting.com

TURNAROUND TIME
☒ Standard (2 Weeks)
☐ RUSH
Rush charges authorized by

SAMPLE DISPOSAL
☐ Dispose after 30 days
☐ Return samples
☐ Will call with instructions

✓ = added per KJ 6/19/13
V = analyze per Mike Station 4/25/13
⊗ = extract & hold per Mike Station 6/25/13

	Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260C	SVOCs by 8270C	GRO by NWTPH-GX	DRO + HO by NWTPH-Dx	NWTPH-Dx by 8270D SIM	PCBs by 8082A	Mercury by 1631E	Dissolved Arsenic by 6020A	Total Arsenic by 6020A	Notes
	EMW-135-1.0	01 A-J	6/11/13	0825	Soil	10				X	X	X	X	X	X	X	X	X	
HOLD	EMW-135-2.5	02		0835															HOLD
	EMW-135-5.0	03		0840															
⊗	EMW-135-7.5	04		0845															
HOLD	EMW-135-12.5	05		0855							✓		⊗	✓	⊗	✓	✓		HOLD
	EMW-125-1.0	06		1110															
HOLD	EMW-125-2.5	07		1120															HOLD
	EMW-125-5.0	08		1135															
HOLD	EMW-125-7.5	09		1215															HOLD
	EMW-125-10.0	10	↓	1230	↓	↓				↓	↓	↓	↓	↓	↓	↓	↓	↓	

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FORMS\COC\COC.DOC

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Andy Meyerst	Amanda Meyerst	SLR	6/12/13	0925
Received by:	[signature]	[signature]	FedEx	6/13/13	[illegible]
Relinquished by:					
Received by:			Samples received at	3 °C	

306183

SAMPLE CHAIN OF CUSTODY

KJ 06-12-13

VS3/BI4/V1

Page # 2 of 3

Send Report To Mike Staton
Company SLR International
Address 22118 20th Ave SE, G202
City, State, ZIP Bothell, WA 98021
Phone # 425-402-8800 Fax # 425-402-8488

SAMPLERS (signature)

PROJECT NAME/NO.: Crowley RIFS 101.00205.00019

PO#: 101.00205.00019

REMARKS: NWTPH-Dx after silica gel cleanup HOLD for 6 mo email to mstaton@slrconsulting.com

TURNAROUND TIME
- ☒ Standard (2 Weeks)
- ☐ RUSH
- Rush charges authorized by

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260C	SVOCs by 8270D	cPAHs by 8270D SIM	Diesel by NWTPH-Dx	Arochlors by 8082A SIM	PCBs by 8082A	Hg by 7473	As, Cr, Pb by 6020B	cPAHs by 8270D SIM HOLD	Notes
HOLD EMW-12S-12.5	11 A-F	6/11/13	1245	SOIL	10				X	X	X	X	X	X	X	X	X	HOLD
EMW-12S-15.0	12		1300															
HOLD EMW-12S-20.0	13		1315															HOLD
EMW-3S-1.0	14 A-F		1425		6				X	X		X	X	X	X	X	X	
HOLD EMW-3S-2.5	15		1440															HOLD
EMW-3S-5.0	16		1455															~~HOLD~~
HOLD EMW-3S-7.5	17		1505															HOLD
EMW-3S-10.0	18		1530															
HOLD EMW-3S-12.5	19		1535															HOLD
EMW-3S-15.0	20		1555															

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Amanda Meyer	SLR	6/12/13	0925
Received by:	Eric Young	FAB	6/13/13	945
Relinquished by:				
Received by:		Samples received at	3	°C

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FORMSVCOCVCOC.DOC

306183

SAMPLE CHAIN OF CUSTODY

KJ 06-12-13

VS3/BI4/V1

Page # 3 of

Send Report To Mike Stanton
Company SLR International
Address 22118 20th Ave SE, G202
City, State, ZIP Bothell, WA 98021
Phone # 425-402-8800 Fax # 425-402-8788

SAMPLERS (signature)

PROJECT NAME/NO.
Crowley RIFS
101.00205.00019

PO#
101.00205.00019

REMARKS
NWTPH-Dx after silica gel cleanup
HOLD on Lab
email to mstanton@slrconsulting.com

TURNAROUND TIME
☒ Standard (2 Weeks)
☐ RUSH
Rush charges authorized by

SAMPLE DISPOSAL
☐ Dispose after 30 days
☐ Return samples
☐ Will call with instructions

	Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260C	SVOCs by 8270D	HFS	NWTPH-Dx	Add'l TPH-Dx	PCBs by 8082A	As by 6020	Dissolved Mn by 6020	Hold	Notes
HLD	EMW35-20.0	21 A-F	6/11/13	1605	SOIL	6				X	X		X	X	X	X	X	X	HOLD
DLP	TB-061113	22 A-B	6/11/13	1620	WATER	2				X									HOLD Analyze per Mike Stan 6/17/13
	EMW-895-5.0	23 A-F	6/11/13	1545	SOIL	6				X	X		X	X	X	X	X	X	
																			Samples received at 3 °C

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FORMS\COC\COC.DOC

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Amanda Margitt	SLR	6/12/13	0925
Received by:			FEB	6/12/13	925
Relinquished by:					
Received by:					

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Kurt Johnson, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

July 25, 2013

Mike Staton
SLR International Corp.
22118 20th Ave. SE., G-202
Bothell, WA 98021

Dear Mr. Staton:

Included are the results from the testing of material submitted on June 14, 2013 from the Crowley RIFS 101.00205.00019, F&BI 306244 project. There are 110 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michele Costales Poquiz

Michele Costales Poquiz
Chemist

Enclosures
SLR0725R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on June 14, 2013 by Friedman & Bruya, Inc. from the SLR International Corp. Crowley RIFS 101.00205.00019, F&BI 306244 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SLR International Corp.
306244-01	EB-41-1.0
306244-02	EB-41-2.5
306244-03	EB-41-5.0
306244-04	EB-41-7.5
306244-05	EB-41-10.0
306244-06	EB-41-12.5
306244-07	EB-41-15.0
306244-08	EB-41-20.0
306244-09	EB-50-1.0
306244-10	EB-50-2.5
306244-11	EB-50-5.0
306244-12	EB-50-7.5
306244-13	EB-46-1.0
306244-14	EB-46-2.5
306244-15	EB-46-8.0
306244-16	EB-46-10.0
306244-17	EB-46-12.5
306244-18	EB-32-1.0
306244-19	EB-32-2.5
306244-20	EB-32-5.0
306244-21	EB-32-7.5
306244-22	EB-32-10.0
306244-23	EB-32-12.5
306244-24	EB-32-20.0
306244-25	TB-061413
306244-26	EB-91-10.0

Total Petroluem Hydrocarbons as Gasoline by Method NWTPH-Gx

All quality control requirements were acceptable.

Total Petroluem Hydrocarbons as Diesel and Motor Oil by Method NWTPH-Dx with Silica Gel

All quality control requirements were acceptable.

CASE NARRATIVE (cont.)

Volatile Compounds by EPA Method 8260C
The presence of methylene chloride in the samples EB-41-5.0, EB-41-10.0EB-46-8.0, EB-32-5.0, is likely due to laboratory contamination. The results have been flagged accordingly.

The trip blank sample was received with incorrect preservation for the 8260 analysis of vinyl chloride. The result should be considered an estimate.

The percent recovery for the matrix spike (MS), laboratory control sample (LCS), and laboratory control sample duplicate (LCSD) failed high for several compounds. The compounds were not identified in the samples, therefore the results are valid.

Semivolatile Organic Compounds by EPA Method 8270D
The samples EB-41-5.0, EB-50-7.5, EB-46-2.5, and EB-32-5.0 were diluted due to matrix interferences. The reporting limits have been raised accordingly.

The presence of bis(2-ethylhexyl)phthalate in the sample EB-32-12.5 is likely due to laboratory contamination. The result has been flagged accordingly.

In addition, the percent recovery for the MS and/or matrix spike duplicate (MSD) exceeded acceptance criteria for 2,4-dimethylphenol and 2,4-dinitrophenol. In addition, the relative percent difference (RPD) for the MS/MSD exceeded acceptance criteria for 2,4-dimethylphenol. The results have been flagged accordingly.

Semivolatile Organic Compounds by EPA Method 8270D SIM
The samples EB-41-5.0, EB-50-7.5, EB-46-1.0, EB-46-2.5, and EB-32-5.0 were diluted due to matrix interferences. The reporting limits have been raised accordingly.

Polychlorinated Biphenyls as Aroclor 1016/1260 by EPA Method 8082A
The samples EB-41-5.0, EB-46-2.5, and EB-32-5.0 were diluted due to matrix interferences. The reporting limits have been raised accordingly.

Total Metals by EPA Method 200.8
The sample EB-32-5.0 was diluted due to matrix interferences. The reporting limits have been raised accordingly.

Total Mercury by EPA Method 1631E
All quality control requirements were acceptable.

Hexavalent Chromium by EPA Method 7196A
The sample EB-32-5.0 was sent to Analytical Resources, Inc. for hexavalent chromium analysis. The report generated by ARI will be forwarded to your office upon receipt.

Date of Report: 07/25/13
Date Received: 06/14/13
Project: Crowley RIFS 101.00205.00019, F&BI 306244
Date Extracted: 06/20/13
Date Analyzed: 06/20/13

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Gasoline Range	Surrogate (% Recovery) (Limit 58-139)
EB-46-2.5 306244-14	0.54	82
EB-32-1.0 306244-18	<0.20	80
EB-32-5.0 306244-20	7.4	89
EB-32-10.0 306244-22	<0.20	84
EB-32-12.5 306244-23	<0.20	82
EB-91-10.0 306244-26	<0.20	82
Method Blank 03-1164 MB	<0.20	85

Date of Report: 07/25/13
Date Received: 06/14/13
Project: Crowley RIFS 101.00205.00019, F&BI 306244
Date Extracted: 06/21/13
Date Analyzed: 06/21/13 and 06/24/13

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx
Sample Extracts Passed Through a Silica Gel Column Prior to Analysis
Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 53-144)
EB-41-1.0 306244-01	<12	<21	106
EB-41-5.0 306244-03	67 x	160	101
EB-41-10.0 306244-05	<12	<21	94
EB-41-15.0 306244-07	<12	<21	100
EB-50-1.0 306244-09	<12	<21	100
EB-50-5.0 306244-11	<12	<21	106
EB-50-7.5 306244-12	15 x	110	99
EB-46-1.0 306244-13	<12	<21	102
EB-46-2.5 306244-14	210 x	1,200	94
EB-46-8.0 306244-15	<12	<21	89

Date of Report: 07/25/13
Date Received: 06/14/13
Project: Crowley RIFS 101.00205.00019, F&BI 306244
Date Extracted: 06/21/13
Date Analyzed: 06/21/13 and 06/24/13

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx
Sample Extracts Passed Through a Silica Gel Column Prior to Analysis
Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 53-144)
EB-46-10.0 306244-16	<12	<21	93
EB-32-1.0 306244-18	<12	<21	99
EB-32-5.0 306244-20	280	600	90
EB-32-10.0 306244-22	<12	<21	114
EB-32-12.5 306244-23	<12	<21	107
EB-91-10.0 306244-26	<12	<21	109
Method Blank 03-1199 MB	<12	<21	107

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EB-41-1.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/22/13	Lab ID:	306244-01
Date Analyzed:	06/22/13	Data File:	062208.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	96	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EB-41-5.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/22/13	Lab ID:	306244-03
Date Analyzed:	06/22/13	Data File:	062209.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	96	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	0.096 lc	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	0.014
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	0.032
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	2.4
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EB-41-10.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/22/13	Lab ID:	306244-05
Date Analyzed:	06/22/13	Data File:	062223A.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	0.092 lc	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EB-41-15.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/22/13	Lab ID:	306244-07
Date Analyzed:	06/22/13	Data File:	062211.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	96	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EB-50-1.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/22/13	Lab ID:	306244-09
Date Analyzed:	06/22/13	Data File:	062212.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EB-50-5.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/22/13	Lab ID:	306244-11
Date Analyzed:	06/22/13	Data File:	062213.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EB-50-7.5	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/22/13	Lab ID:	306244-12
Date Analyzed:	06/22/13	Data File:	062214.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EB-46-1.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/22/13	Lab ID:	306244-13
Date Analyzed:	06/22/13	Data File:	062215.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EB-46-2.5	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/22/13	Lab ID:	306244-14
Date Analyzed:	06/22/13	Data File:	062216.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	0.029
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EB-46-8.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/22/13	Lab ID:	306244-15
Date Analyzed:	06/22/13	Data File:	062217.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	96	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	0.11 lc	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EB-46-10.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/22/13	Lab ID:	306244-16
Date Analyzed:	06/22/13	Data File:	062218.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EB-32-1.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/22/13	Lab ID:	306244-18
Date Analyzed:	06/22/13	Data File:	062219.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EB-32-5.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/22/13	Lab ID:	306244-20
Date Analyzed:	06/22/13	Data File:	062220.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	0.099 lc	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	0.016
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	0.029
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	0.12
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EB-32-10.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/22/13	Lab ID:	306244-22
Date Analyzed:	06/22/13	Data File:	062221.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EB-32-12.5	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/22/13	Lab ID:	306244-23
Date Analyzed:	06/22/13	Data File:	062222.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EB-91-10.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/22/13	Lab ID:	306244-26
Date Analyzed:	06/22/13	Data File:	062223.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	96	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/22/13	Lab ID:	03-1201 mb
Date Analyzed:	06/22/13	Data File:	062207.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	TB-061413	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/18/13	Lab ID:	306244-25
Date Analyzed:	06/18/13	Data File:	061816.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	96	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13 pr	Dibromochloromethane	<0.24
Bromomethane	<0.2	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/18/13	Lab ID:	03-1114 mb
Date Analyzed:	06/18/13	Data File:	061809.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	96	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EB-41-1.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/27/13	Lab ID:	306244-01
Date Analyzed:	06/28/13	Data File:	062815.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	69	56	115
Phenol-d6	83	54	113
Nitrobenzene-d5	77	31	164
2-Fluorobiphenyl	80	47	133
2,4,6-Tribromophenol	83	35	141
Terphenyl-d14	91	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	0.0098	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014
2-Methylphenol	<0.0064	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062 j
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	<0.013
2-Methylnaphthalene	<0.001	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EB-41-5.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/27/13	Lab ID:	306244-03 1/500
Date Analyzed:	07/01/13	Data File:	070115.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	0 ds	56	115
Phenol-d6	0 ds	54	113
Nitrobenzene-d5	100 ds	31	164
2-Fluorobiphenyl	100 ds	47	133
2,4,6-Tribromophenol	0 ds	35	141
Terphenyl-d14	100 ds	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<2.7	2,4,6-Trichlorophenol	<4
Bis(2-chloroethyl) ether	<0.8	2,4,5-Trichlorophenol	<4.8
2-Chlorophenol	<3.1	2-Chloronaphthalene	<0.7
1,3-Dichlorobenzene	<1.3	2-Nitroaniline	<1.3
1,4-Dichlorobenzene	<1.2	Dimethyl phthalate	<0.6
1,2-Dichlorobenzene	<2	2,6-Dinitrotoluene	<0.9
Benzyl alcohol	<2.5	3-Nitroaniline	<8.7
Bis(2-chloroisopropyl) ether	<0.8	2,4-Dinitrophenol	<6.9
2-Methylphenol	<3.2	Dibenzofuran	2.3
Hexachloroethane	<1.7	2,4-Dinitrotoluene	<0.8
N-Nitroso-di-n-propylamine	<1.5	4-Nitrophenol	<8.9
3-Methylphenol + 4-Methylphenol	<7.2	Diethyl phthalate	<2
Nitrobenzene	<1.3	4-Chlorophenyl phenyl ether	<0.8
Isophorone	<0.6	N-Nitrosodiphenylamine	<0.5
2-Nitrophenol	<4.1	4-Nitroaniline	<9.1
2,4-Dimethylphenol	<9.3	4,6-Dinitro-2-methylphenol	<5.3
Benzoic acid	<27	4-Bromophenyl phenyl ether	<0.8
Bis(2-chloroethoxy)methane	<0.7	Hexachlorobenzene	<0.5
2,4-Dichlorophenol	<2.9	Pentachlorophenol	<3.1 j
1,2,4-Trichlorobenzene	<1.7	Carbazole	6.0
Hexachlorobutadiene	<1	Di-n-butyl phthalate	<10
4-Chloroaniline	<89	Benzyl butyl phthalate	<2.9
4-Chloro-3-methylphenol	<2.2	Bis(2-ethylhexyl) phthalate	<6.7
2-Methylnaphthalene	1.9	Di-n-octyl phthalate	<1.7
Hexachlorocyclopentadiene	<1.1		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EB-41-10.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/27/13	Lab ID:	306244-05
Date Analyzed:	06/28/13	Data File:	062806.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	56	56	115
Phenol-d6	63	54	113
Nitrobenzene-d5	63	31	164
2-Fluorobiphenyl	77	47	133
2,4,6-Tribromophenol	70	35	141
Terphenyl-d14	81	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	0.022	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014
2-Methylphenol	<0.0064	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062 j
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	<0.013
2-Methylnaphthalene	<0.001	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EB-41-15.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/27/13	Lab ID:	306244-07
Date Analyzed:	06/28/13	Data File:	062809.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	87	56	115
Phenol-d6	98	54	113
Nitrobenzene-d5	89	31	164
2-Fluorobiphenyl	82	47	133
2,4,6-Tribromophenol	101	35	141
Terphenyl-d14	86	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	0.054	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014
2-Methylphenol	<0.0064	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062 j
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	<0.013
2-Methylnaphthalene	<0.001	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EB-50-1.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/27/13	Lab ID:	306244-09
Date Analyzed:	06/28/13	Data File:	062810.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	81	56	115
Phenol-d6	90	54	113
Nitrobenzene-d5	88	31	164
2-Fluorobiphenyl	84	47	133
2,4,6-Tribromophenol	96	35	141
Terphenyl-d14	89	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	0.023	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014
2-Methylphenol	<0.0064	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062 j
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	<0.013
2-Methylnaphthalene	<0.001	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EB-50-5.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/27/13	Lab ID:	306244-11
Date Analyzed:	06/28/13	Data File:	062817.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	75	56	115
Phenol-d6	89	54	113
Nitrobenzene-d5	84	31	164
2-Fluorobiphenyl	85	47	133
2,4,6-Tribromophenol	97	35	141
Terphenyl-d14	101	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	0.032	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014
2-Methylphenol	<0.0064	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062 j
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	<0.013
2-Methylnaphthalene	0.0010	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EB-50-7.5	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/27/13	Lab ID:	306244-12 1/50
Date Analyzed:	07/01/13	Data File:	070103.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	70 ds	32	162
Phenol-d6	87 ds	10	170
Nitrobenzene-d5	80 ds	50	150
2-Fluorobiphenyl	80 ds	43	158
2,4,6-Tribromophenol	77 s	43	146
Terphenyl-d14	100 s	39	168

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.27	2,4,6-Trichlorophenol	<0.4
Bis(2-chloroethyl) ether	<0.08	2,4,5-Trichlorophenol	<0.48
2-Chlorophenol	<0.31	2-Chloronaphthalene	<0.07
1,3-Dichlorobenzene	<0.13	2-Nitroaniline	<0.13
1,4-Dichlorobenzene	<0.12	Dimethyl phthalate	<0.06
1,2-Dichlorobenzene	<0.2	2,6-Dinitrotoluene	<0.09
Benzyl alcohol	<0.25	3-Nitroaniline	<0.87
Bis(2-chloroisopropyl) ether	<0.08	2,4-Dinitrophenol	<0.69
2-Methylphenol	<0.32	Dibenzofuran	<0.05
Hexachloroethane	<0.17	2,4-Dinitrotoluene	<0.08
N-Nitroso-di-n-propylamine	<0.15	4-Nitrophenol	<0.89
3-Methylphenol + 4-Methylphenol	<0.72	Diethyl phthalate	<0.2
Nitrobenzene	<0.13	4-Chlorophenyl phenyl ether	<0.08
Isophorone	<0.06	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.41	4-Nitroaniline	<0.91
2,4-Dimethylphenol	<0.93	4,6-Dinitro-2-methylphenol	<0.53
Benzoic acid	<2.7	4-Bromophenyl phenyl ether	<0.08
Bis(2-chloroethoxy)methane	<0.07	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.29	Pentachlorophenol	<0.31 j
1,2,4-Trichlorobenzene	<0.17	Carbazole	<0.1
Hexachlorobutadiene	<0.1	Di-n-butyl phthalate	<1
4-Chloroaniline	<8.9	Benzyl butyl phthalate	<0.29
4-Chloro-3-methylphenol	<0.22	Bis(2-ethylhexyl) phthalate	<0.67
2-Methylnaphthalene	<0.05	Di-n-octyl phthalate	<0.17
Hexachlorocyclopentadiene	<0.11		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EB-46-1.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/27/13	Lab ID:	306244-13
Date Analyzed:	06/28/13	Data File:	062818.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	73	56	115
Phenol-d6	87	54	113
Nitrobenzene-d5	78	31	164
2-Fluorobiphenyl	80	47	133
2,4,6-Tribromophenol	87	35	141
Terphenyl-d14	101	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	0.030	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014
2-Methylphenol	<0.0064	Dibenzofuran	0.0022
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	0.0076 j
1,2,4-Trichlorobenzene	<0.0034	Carbazole	0.010
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	<0.013
2-Methylnaphthalene	<0.001	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EB-46-2.5	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/27/13	Lab ID:	306244-14 1/200
Date Analyzed:	07/01/13	Data File:	070112.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	73 ds	56	115
Phenol-d6	80 ds	54	113
Nitrobenzene-d5	100 ds	31	164
2-Fluorobiphenyl	80 ds	47	133
2,4,6-Tribromophenol	0 ds	35	141
Terphenyl-d14	110 ds	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<1.1	2,4,6-Trichlorophenol	<1.6
Bis(2-chloroethyl) ether	<0.32	2,4,5-Trichlorophenol	<1.9
2-Chlorophenol	<1.2	2-Chloronaphthalene	<0.28
1,3-Dichlorobenzene	<0.52	2-Nitroaniline	<0.52
1,4-Dichlorobenzene	<0.48	Dimethyl phthalate	<0.24
1,2-Dichlorobenzene	<0.8	2,6-Dinitrotoluene	<0.36
Benzyl alcohol	<1	3-Nitroaniline	<3.5
Bis(2-chloroisopropyl) ether	<0.32	2,4-Dinitrophenol	<2.8
2-Methylphenol	<1.3	Dibenzofuran	<0.2
Hexachloroethane	<0.68	2,4-Dinitrotoluene	<0.32
N-Nitroso-di-n-propylamine	<0.6	4-Nitrophenol	<3.6
3-Methylphenol + 4-Methylphenol	<2.9	Diethyl phthalate	<0.8
Nitrobenzene	<0.52	4-Chlorophenyl phenyl ether	<0.32
Isophorone	<0.24	N-Nitrosodiphenylamine	<0.2
2-Nitrophenol	<1.6	4-Nitroaniline	<3.6
2,4-Dimethylphenol	<3.7	4,6-Dinitro-2-methylphenol	<2.1
Benzoic acid	<11	4-Bromophenyl phenyl ether	<0.32
Bis(2-chloroethoxy)methane	<0.28	Hexachlorobenzene	<0.2
2,4-Dichlorophenol	<1.2	Pentachlorophenol	<1.2 j
1,2,4-Trichlorobenzene	<0.68	Carbazole	<0.4
Hexachlorobutadiene	<0.4	Di-n-butyl phthalate	<4
4-Chloroaniline	<36	Benzyl butyl phthalate	<1.2
4-Chloro-3-methylphenol	<0.88	Bis(2-ethylhexyl) phthalate	<2.7
2-Methylnaphthalene	<0.2	Di-n-octyl phthalate	<0.68
Hexachlorocyclopentadiene	<0.44		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EB-46-8.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/27/13	Lab ID:	306244-15
Date Analyzed:	06/28/13	Data File:	062811.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	84	56	115
Phenol-d6	96	54	113
Nitrobenzene-d5	88	31	164
2-Fluorobiphenyl	83	47	133
2,4,6-Tribromophenol	100	35	141
Terphenyl-d14	91	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	0.055	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014
2-Methylphenol	<0.0064	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062 j
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	<0.013
2-Methylnaphthalene	0.0011	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EB-46-10.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/27/13	Lab ID:	306244-16
Date Analyzed:	06/28/13	Data File:	062812.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	81	56	115
Phenol-d6	90	54	113
Nitrobenzene-d5	86	31	164
2-Fluorobiphenyl	84	47	133
2,4,6-Tribromophenol	99	35	141
Terphenyl-d14	102	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	0.038	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014
2-Methylphenol	<0.0064	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062 j
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	<0.013
2-Methylnaphthalene	0.0011	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EB-32-1.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/27/13	Lab ID:	306244-18
Date Analyzed:	06/28/13	Data File:	062819.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	77	56	115
Phenol-d6	89	54	113
Nitrobenzene-d5	84	31	164
2-Fluorobiphenyl	83	47	133
2,4,6-Tribromophenol	97	35	141
Terphenyl-d14	112	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	0.036	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014
2-Methylphenol	0.026	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062 j
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	<0.013
2-Methylnaphthalene	<0.001	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EB-32-5.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/27/13	Lab ID:	306244-20 1/200
Date Analyzed:	06/28/13	Data File:	062820.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	33 ds	56	115
Phenol-d6	53 ds	54	113
Nitrobenzene-d5	60 ds	31	164
2-Fluorobiphenyl	100 ds	47	133
2,4,6-Tribromophenol	0 ds	35	141
Terphenyl-d14	140 ds	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<1.1	2,4,6-Trichlorophenol	<1.6
Bis(2-chloroethyl) ether	<0.32	2,4,5-Trichlorophenol	<1.9
2-Chlorophenol	<1.2	2-Chloronaphthalene	<0.28
1,3-Dichlorobenzene	<0.52	2-Nitroaniline	<0.52
1,4-Dichlorobenzene	<0.48	Dimethyl phthalate	<0.24
1,2-Dichlorobenzene	<0.8	2,6-Dinitrotoluene	<0.36
Benzyl alcohol	<1	3-Nitroaniline	<3.5
Bis(2-chloroisopropyl) ether	<0.32	2,4-Dinitrophenol	<2.8
2-Methylphenol	<1.3	Dibenzofuran	0.37
Hexachloroethane	<0.68	2,4-Dinitrotoluene	<0.32
N-Nitroso-di-n-propylamine	<0.6	4-Nitrophenol	<3.6
3-Methylphenol + 4-Methylphenol	<2.9	Diethyl phthalate	<0.8
Nitrobenzene	<0.52	4-Chlorophenyl phenyl ether	<0.32
Isophorone	<0.24	N-Nitrosodiphenylamine	<0.2
2-Nitrophenol	<1.6	4-Nitroaniline	<3.6
2,4-Dimethylphenol	<3.7	4,6-Dinitro-2-methylphenol	<2.1
Benzoic acid	<11	4-Bromophenyl phenyl ether	<0.32
Bis(2-chloroethoxy)methane	<0.28	Hexachlorobenzene	<0.2
2,4-Dichlorophenol	<1.2	Pentachlorophenol	<1.2 j
1,2,4-Trichlorobenzene	<0.68	Carbazole	<0.4
Hexachlorobutadiene	<0.4	Di-n-butyl phthalate	<4
4-Chloroaniline	<36	Benzyl butyl phthalate	<1.2
4-Chloro-3-methylphenol	<0.88	Bis(2-ethylhexyl) phthalate	<2.7
2-Methylnaphthalene	0.65	Di-n-octyl phthalate	<0.68
Hexachlorocyclopentadiene	<0.44		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EB-32-10.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/27/13	Lab ID:	306244-22
Date Analyzed:	06/28/13	Data File:	062813.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	53 ip	56	115
Phenol-d6	95	54	113
Nitrobenzene-d5	89	31	164
2-Fluorobiphenyl	89	47	133
2,4,6-Tribromophenol	101	35	141
Terphenyl-d14	105	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	0.030	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014
2-Methylphenol	<0.0064	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062 j
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	<0.013
2-Methylnaphthalene	<0.001	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EB-32-12.5	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/27/13	Lab ID:	306244-23
Date Analyzed:	06/28/13	Data File:	062816.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	70	56	115
Phenol-d6	82	54	113
Nitrobenzene-d5	74	31	164
2-Fluorobiphenyl	78	47	133
2,4,6-Tribromophenol	95	35	141
Terphenyl-d14	93	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	0.044	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014
2-Methylphenol	<0.0064	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062 j
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	0.017 lc
2-Methylnaphthalene	<0.001	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EB-91-10.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/27/13	Lab ID:	306244-26
Date Analyzed:	06/28/13	Data File:	062814.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	74	56	115
Phenol-d6	87	54	113
Nitrobenzene-d5	75	31	164
2-Fluorobiphenyl	81	47	133
2,4,6-Tribromophenol	101	35	141
Terphenyl-d14	89	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	0.042	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014
2-Methylphenol	<0.0064	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062 j
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	<0.013
2-Methylnaphthalene	<0.001	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/27/13	Lab ID:	03-1234 mb
Date Analyzed:	06/28/13	Data File:	062805.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	89	56	115
Phenol-d6	103	54	113
Nitrobenzene-d5	94	31	164
2-Fluorobiphenyl	92	47	133
2,4,6-Tribromophenol	107	35	141
Terphenyl-d14	98	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	<0.005	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014
2-Methylphenol	<0.0064	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062 j
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	<0.013
2-Methylnaphthalene	<0.001	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-41-1.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/27/13	Lab ID:	306244-01
Date Analyzed:	06/29/13	Data File:	062834.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	94	50	150
Benzo(a)anthracene-d12	91	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.00022
Acenaphthylene	<0.000091
Acenaphthene	0.00040
Fluorene	0.00045
Phenanthrene	0.0035
Anthracene	0.00079
Fluoranthene	0.0047
Pyrene	0.0046
Benz(a)anthracene	0.0028
Chrysene	0.0039
Benzo(a)pyrene	0.0036
Benzo(b)fluoranthene	0.0061
Benzo(k)fluoranthene	0.0016
Indeno(1,2,3-cd)pyrene	0.0023
Dibenz(a,h)anthracene	0.00066
Benzo(g,h,i)perylene	0.0025

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-41-5.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/27/13	Lab ID:	306244-03 1/5000
Date Analyzed:	07/05/13	Data File:	070523.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	7600 ds	50	150
Benzo(a)anthracene-d12	750 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	4.1
Acenaphthylene	<0.46
Acenaphthene	8.1
Fluorene	8.1
Phenanthrene	64
Anthracene	25
Fluoranthene	75
Pyrene	68
Benz(a)anthracene	31
Chrysene	35
Benzo(a)pyrene	19
Benzo(b)fluoranthene	27
Benzo(k)fluoranthene	8.2
Indeno(1,2,3-cd)pyrene	9.9
Dibenz(a,h)anthracene	2.6
Benzo(g,h,i)perylene	8.3

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-41-10.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/27/13	Lab ID:	306244-05
Date Analyzed:	06/28/13	Data File:	062820.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	73	50	150
Benzo(a)anthracene-d12	82	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.00036
Acenaphthylene	<0.000091
Acenaphthene	0.00024
Fluorene	0.00016
Phenanthrene	0.0013
Anthracene	0.00032
Fluoranthene	0.0013
Pyrene	0.0012
Benz(a)anthracene	0.00064
Chrysene	0.00072
Benzo(a)pyrene	0.00029
Benzo(b)fluoranthene	0.00049
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	<0.00062
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	<0.00034

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-41-15.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/27/13	Lab ID:	306244-07
Date Analyzed:	06/28/13	Data File:	062821.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	68	50	150
Benzo(a)anthracene-d12	65	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.00026
Acenaphthylene	<0.000091
Acenaphthene	0.00031
Fluorene	0.00031
Phenanthrene	0.0020
Anthracene	0.00077
Fluoranthene	0.0023
Pyrene	0.0020
Benz(a)anthracene	0.00092
Chrysene	0.0010
Benzo(a)pyrene	0.00045
Benzo(b)fluoranthene	0.00073
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	<0.00062
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	<0.00034

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-41-20.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306244-08
Date Analyzed:	07/22/13	Data File:	072208.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	68	50	150
Benzo(a)anthracene-d12	85	35	159

Compounds:	Concentration mg/kg (ppm)
Benz(a)anthracene	<0.00018
Benzo(a)pyrene	<0.00022
Benzo(b)fluoranthene	<0.00018

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-50-1.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/27/13	Lab ID:	306244-09
Date Analyzed:	06/28/13	Data File:	062822.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	80	50	150
Benzo(a)anthracene-d12	80	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.00022
Acenaphthylene	<0.000091
Acenaphthene	<0.00014
Fluorene	<0.00015
Phenanthrene	<0.00032
Anthracene	<0.000088
Fluoranthene	0.00063
Pyrene	0.00070
Benz(a)anthracene	0.00038
Chrysene	0.00041
Benzo(a)pyrene	0.00037
Benzo(b)fluoranthene	0.00043
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	<0.00062
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	0.00034

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-50-5.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/27/13	Lab ID:	306244-11
Date Analyzed:	06/29/13	Data File:	062832.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	98	50	150
Benzo(a)anthracene-d12	92	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.00054
Acenaphthylene	0.00019
Acenaphthene	0.00025
Fluorene	0.00023
Phenanthrene	0.0042
Anthracene	0.00076
Fluoranthene	0.0078
Pyrene	0.0097
Benz(a)anthracene	0.0037
Chrysene	0.0053
Benzo(a)pyrene	0.0042
Benzo(b)fluoranthene	0.0053
Benzo(k)fluoranthene	0.0018
Indeno(1,2,3-cd)pyrene	0.0031
Dibenz(a,h)anthracene	0.00063
Benzo(g,h,i)perylene	0.0033

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-50-7.5	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/27/13	Lab ID:	306244-12 1/50
Date Analyzed:	07/01/13	Data File:	070109.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	513 ds	50	150
Benzo(a)anthracene-d12	95 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.011
Acenaphthylene	0.0065
Acenaphthene	<0.007
Fluorene	<0.0075
Phenanthrene	0.084
Anthracene	0.019
Fluoranthene	0.12
Pyrene	0.14
Benz(a)anthracene	0.053
Chrysene	0.067
Benzo(a)pyrene	0.060
Benzo(b)fluoranthene	0.065
Benzo(k)fluoranthene	0.025
Indeno(1,2,3-cd)pyrene	0.040
Dibenz(a,h)anthracene	<0.017
Benzo(g,h,i)perylene	0.044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-46-1.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/27/13	Lab ID:	306244-13 1/10
Date Analyzed:	07/05/13	Data File:	070524.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	113 ds	50	150
Benzo(a)anthracene-d12	101 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.0022
Acenaphthylene	<0.00091
Acenaphthene	0.0039
Fluorene	0.0088
Phenanthrene	0.13
Anthracene	0.051
Fluoranthene	0.19
Pyrene	0.16
Benz(a)anthracene	0.048
Chrysene	0.075
Benzo(a)pyrene	0.048
Benzo(b)fluoranthene	0.070
Benzo(k)fluoranthene	0.021
Indeno(1,2,3-cd)pyrene	0.037
Dibenz(a,h)anthracene	0.0095
Benzo(g,h,i)perylene	0.031

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-46-2.5	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/27/13	Lab ID:	306244-14 1/200
Date Analyzed:	07/05/13	Data File:	070525.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	285 ds	50	150
Benzo(a)anthracene-d12	158 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.19
Acenaphthylene	<0.018
Acenaphthene	0.26
Fluorene	0.22
Phenanthrene	1.4
Anthracene	0.49
Fluoranthene	2.7
Pyrene	2.7
Benz(a)anthracene	1.2
Chrysene	1.5
Benzo(a)pyrene	1.1
Benzo(b)fluoranthene	1.5
Benzo(k)fluoranthene	0.48
Indeno(1,2,3-cd)pyrene	0.76
Dibenz(a,h)anthracene	0.17
Benzo(g,h,i)perylene	0.64

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-46-8.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/27/13	Lab ID:	306244-15
Date Analyzed:	06/28/13	Data File:	062823.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	74	50	150
Benzo(a)anthracene-d12	71	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.00029
Acenaphthylene	<0.000091
Acenaphthene	<0.00014
Fluorene	<0.00015
Phenanthrene	0.00082
Anthracene	<0.000088
Fluoranthene	<0.00028
Pyrene	<0.00026
Benz(a)anthracene	0.00020
Chrysene	<0.00019
Benzo(a)pyrene	<0.00022
Benzo(b)fluoranthene	<0.00018
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	<0.00062
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	<0.00034

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-46-10.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/27/13	Lab ID:	306244-16
Date Analyzed:	06/28/13	Data File:	062824.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	75	50	150
Benzo(a)anthracene-d12	73	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.00023
Acenaphthylene	<0.000091
Acenaphthene	<0.00014
Fluorene	<0.00015
Phenanthrene	0.00085
Anthracene	<0.000088
Fluoranthene	<0.00028
Pyrene	<0.00026
Benz(a)anthracene	<0.00018
Chrysene	<0.00019
Benzo(a)pyrene	<0.00022
Benzo(b)fluoranthene	<0.00018
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	<0.00062
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	<0.00034

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-32-1.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/27/13	Lab ID:	306244-18
Date Analyzed:	07/05/13	Data File:	070521.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	83	50	150
Benzo(a)anthracene-d12	98	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.00022
Acenaphthylene	0.00019
Acenaphthene	0.00042
Fluorene	0.00037
Phenanthrene	0.0066
Anthracene	0.0034
Fluoranthene	0.028
Pyrene	0.028
Benz(a)anthracene	0.023
Chrysene	0.028
Benzo(a)pyrene	0.016
Benzo(b)fluoranthene	0.027
Benzo(k)fluoranthene	0.0087
Indeno(1,2,3-cd)pyrene	0.010
Dibenz(a,h)anthracene	0.0033
Benzo(g,h,i)perylene	0.0092

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-32-5.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/27/13	Lab ID:	306244-20 1/200
Date Analyzed:	07/05/13	Data File:	070522.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	264 ds	50	150
Benzo(a)anthracene-d12	171 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.48
Acenaphthylene	0.033
Acenaphthene	0.65
Fluorene	0.65
Phenanthrene	3.7
Anthracene	2.3
Fluoranthene	4.0
Pyrene	4.1
Benz(a)anthracene	1.9
Chrysene	2.9
Benzo(a)pyrene	1.5
Benzo(b)fluoranthene	2.3
Benzo(k)fluoranthene	0.68
Indeno(1,2,3-cd)pyrene	1.1
Dibenz(a,h)anthracene	0.29
Benzo(g,h,i)perylene	0.97

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-32-10.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/27/13	Lab ID:	306244-22
Date Analyzed:	06/28/13	Data File:	062825.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	78	50	150
Benzo(a)anthracene-d12	78	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.00022
Acenaphthylene	<0.000091
Acenaphthene	<0.00014
Fluorene	<0.00015
Phenanthrene	0.00066
Anthracene	<0.000088
Fluoranthene	<0.00028
Pyrene	<0.00026
Benz(a)anthracene	0.00021
Chrysene	0.00023
Benzo(a)pyrene	<0.00022
Benzo(b)fluoranthene	<0.00018
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	<0.00062
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	<0.00034

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-32-12.5	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/27/13	Lab ID:	306244-23
Date Analyzed:	06/29/13	Data File:	062833.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	66	50	150
Benzo(a)anthracene-d12	52	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.00022
Acenaphthylene	<0.000091
Acenaphthene	<0.00014
Fluorene	<0.00015
Phenanthrene	0.00046
Anthracene	0.00013
Fluoranthene	0.00033
Pyrene	0.00035
Benz(a)anthracene	0.00025
Chrysene	0.00032
Benzo(a)pyrene	<0.00022
Benzo(b)fluoranthene	0.00023
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	<0.00062
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	<0.00034

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-91-10.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/27/13	Lab ID:	306244-26
Date Analyzed:	06/28/13	Data File:	062828.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	81	50	150
Benzo(a)anthracene-d12	60	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.00022
Acenaphthylene	<0.000091
Acenaphthene	<0.00014
Fluorene	<0.00015
Phenanthrene	<0.00032
Anthracene	<0.000088
Fluoranthene	<0.00028
Pyrene	<0.00026
Benz(a)anthracene	<0.00018
Chrysene	<0.00019
Benzo(a)pyrene	<0.00022
Benzo(b)fluoranthene	<0.00018
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	<0.00062
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	<0.00034

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/27/13	Lab ID:	03-1233 mb
Date Analyzed:	06/28/13	Data File:	062818.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	92	50	150
Benzo(a)anthracene-d12	97	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.00022
Acenaphthylene	<0.000091
Acenaphthene	<0.00014
Fluorene	<0.00015
Phenanthrene	<0.00032
Anthracene	<0.000088
Fluoranthene	<0.00028
Pyrene	<0.00026
Benz(a)anthracene	<0.00018
Chrysene	<0.00019
Benzo(a)pyrene	<0.00022
Benzo(b)fluoranthene	<0.00018
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	<0.00062
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	<0.00034

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	03-1254 mb2
Date Analyzed:	07/08/13	Data File:	070826.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	76	50	150
Benzo(a)anthracene-d12	87	35	159

Compounds:	Concentration mg/kg (ppm)
Benz(a)anthracene	<0.00018
Benzo(a)pyrene	<0.00022
Benzo(b)fluoranthene	<0.00018

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EB-41-1.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/28/13	Lab ID:	306244-01
Date Analyzed:	07/10/13	Data File:	56.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	89	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EB-41-5.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/28/13	Lab ID:	306244-03 1/5
Date Analyzed:	07/10/13	Data File:	58.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	110 ds	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.17
Aroclor 1232	<0.17
Aroclor 1016	<0.17
Aroclor 1242	<0.17
Aroclor 1248	<0.17
Aroclor 1254	0.85
Aroclor 1260	<0.17

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EB-41-10.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/28/13	Lab ID:	306244-05
Date Analyzed:	07/10/13	Data File:	60.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	113	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EB-41-15.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/28/13	Lab ID:	306244-07
Date Analyzed:	07/10/13	Data File:	62.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	100	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EB-50-1.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/28/13	Lab ID:	306244-09
Date Analyzed:	07/10/13	Data File:	64.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	88	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EB-50-5.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/28/13	Lab ID:	306244-11
Date Analyzed:	07/10/13	Data File:	66.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	99	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EB-50-7.5	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/28/13	Lab ID:	306244-12
Date Analyzed:	07/10/13	Data File:	68.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	152 vo	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EB-46-1.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/28/13	Lab ID:	306244-13
Date Analyzed:	07/10/13	Data File:	70.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	97	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EB-46-2.5	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/28/13	Lab ID:	306244-14 1/5
Date Analyzed:	07/10/13	Data File:	19.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mcp

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	118 ds	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.17
Aroclor 1232	<0.17
Aroclor 1016	<0.17
Aroclor 1242	<0.17
Aroclor 1248	<0.17
Aroclor 1254	<0.17
Aroclor 1260	<0.17

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EB-46-8.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/28/13	Lab ID:	306244-15
Date Analyzed:	07/10/13	Data File:	21.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mcp

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	94	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EB-46-10.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/28/13	Lab ID:	306244-16
Date Analyzed:	07/10/13	Data File:	23.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mcp

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	93	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EB-32-1.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/28/13	Lab ID:	306244-18
Date Analyzed:	07/10/13	Data File:	25.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mcp

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	93	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EB-32-5.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/28/13	Lab ID:	306244-20 1/2
Date Analyzed:	07/12/13	Data File:	14.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	110 ds	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.066
Aroclor 1232	<0.066
Aroclor 1016	<0.066
Aroclor 1242	<0.066
Aroclor 1248	<0.066
Aroclor 1254	0.30
Aroclor 1260	0.38

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EB-32-10.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/28/13	Lab ID:	306244-22
Date Analyzed:	07/10/13	Data File:	29.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mcp

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	95	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EB-32-12.5	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/28/13	Lab ID:	306244-23
Date Analyzed:	07/10/13	Data File:	31.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mcp

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	86	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EB-91-10.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/28/13	Lab ID:	306244-26
Date Analyzed:	07/10/13	Data File:	33.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mcp

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	88	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/28/13	Lab ID:	03-1244 mb
Date Analyzed:	07/10/13	Data File:	54.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	89	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For Total Metals By EPA Method 200.8

Client ID:	EB-41-1.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306244-01
Date Analyzed:	07/03/13	Data File:	306244-01.025
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	94	60	125
Indium	76	60	125
Holmium	84	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.147
Chromium	14.5
Nickel	26.5
Copper	11.8
Zinc	22.6
Arsenic	3.95
Selenium	<0.912
Silver	<0.0784
Cadmium	<0.204
Antimony	1.54
Barium	35.1
Thallium	0.0913
Lead	2.86

Analysis For Total Metals By EPA Method 200.8

Client ID:	EB-41-5.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306244-03
Date Analyzed:	07/03/13	Data File:	306244-03.026
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	104	60	125
Indium	97	60	125
Holmium	81	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.251
Chromium	39.7
Nickel	30.8
Copper	246
Zinc	802
Arsenic	221
Selenium	<0.912
Silver	0.347
Cadmium	1.05
Antimony	133
Barium	74.5
Thallium	0.146
Lead	324

Analysis For Total Metals By EPA Method 200.8

Client ID:	EB-41-10.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306244-05
Date Analyzed:	07/03/13	Data File:	306244-05.027
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	101	60	125
Indium	89	60	125
Holmium	94	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.103
Chromium	5.95
Nickel	4.09
Copper	10.5
Zinc	14.1
Arsenic	2.26
Selenium	<0.912
Silver	<0.0784
Cadmium	<0.204
Antimony	0.644
Barium	18.0
Thallium	0.0506
Lead	1.68

Analysis For Total Metals By EPA Method 200.8

Client ID:	EB-41-15.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306244-07
Date Analyzed:	07/03/13	Data File:	306244-07.028
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	91	60	125
Indium	82	60	125
Holmium	85	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	<0.0858
Chromium	8.46
Nickel	6.43
Copper	10.2
Zinc	18.0
Arsenic	2.92
Selenium	<0.912
Silver	<0.0784
Cadmium	<0.204
Antimony	0.280
Barium	19.9
Thallium	<0.0434 j
Lead	1.45

Analysis For Total Metals By EPA Method 200.8

Client ID:	EB-50-1.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306244-09
Date Analyzed:	07/03/13	Data File:	306244-09.030
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	97	60	125
Indium	83	60	125
Holmium	87	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.147
Chromium	14.4
Nickel	25.2
Copper	10.7
Zinc	21.3
Arsenic	2.69
Selenium	<0.912
Silver	<0.0784
Cadmium	<0.204
Antimony	0.254
Barium	35.5
Thallium	0.0537
Lead	2.37

Analysis For Total Metals By EPA Method 200.8

Client ID:	EB-50-5.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306244-11
Date Analyzed:	07/03/13	Data File:	306244-11.031
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	96	60	125
Indium	76	60	125
Holmium	82	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.203
Chromium	16.4
Nickel	28.2
Copper	14.4
Zinc	24.8
Arsenic	3.71
Selenium	<0.912
Silver	<0.0784
Cadmium	<0.204
Antimony	0.503
Barium	54.7
Thallium	<0.0434 j
Lead	4.11

Analysis For Total Metals By EPA Method 200.8

Client ID:	EB-50-7.5	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306244-12
Date Analyzed:	07/03/13	Data File:	306244-12.032
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	99	60	125
Indium	83	60	125
Holmium	87	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.194
Chromium	14.0
Nickel	19.5
Copper	13.3
Zinc	30.4
Arsenic	4.00
Selenium	<0.912
Silver	<0.0784
Cadmium	0.383
Antimony	1.61
Barium	56.9
Thallium	<0.0434 j
Lead	15.9

Analysis For Total Metals By EPA Method 200.8

Client ID:	EB-46-1.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306244-13
Date Analyzed:	07/03/13	Data File:	306244-13.033
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	105	60	125
Indium	88	60	125
Holmium	94	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.151
Chromium	13.7
Nickel	26.5
Copper	9.56
Zinc	21.0
Arsenic	2.84
Selenium	<0.912
Silver	<0.0784
Cadmium	<0.204
Antimony	0.639
Barium	35.3
Thallium	<0.0434 j
Lead	2.48

Analysis For Total Metals By EPA Method 200.8

Client ID:	EB-46-2.5	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306244-14
Date Analyzed:	07/03/13	Data File:	306244-14.022
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	115	60	125
Indium	124	60	125
Holmium	93	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.286
Chromium	35.2
Nickel	12.7
Copper	342
Zinc	1,260
Arsenic	409
Selenium	<0.912
Silver	0.470
Cadmium	0.952
Antimony	216
Barium	80.0
Thallium	0.234
Lead	491

Analysis For Total Metals By EPA Method 200.8

Client ID:	EB-46-8.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306244-15
Date Analyzed:	07/03/13	Data File:	306244-15.034
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	104	60	125
Indium	88	60	125
Holmium	96	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.175
Chromium	7.86
Nickel	5.86
Copper	15.3
Zinc	17.6
Arsenic	3.12
Selenium	<0.912
Silver	<0.0784
Cadmium	<0.204
Antimony	0.179
Barium	33.6
Thallium	<0.0434 j
Lead	2.30

Analysis For Total Metals By EPA Method 200.8

Client ID:	EB-46-10.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306244-16
Date Analyzed:	07/03/13	Data File:	306244-16.035
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	105	60	125
Indium	89	60	125
Holmium	94	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.161
Chromium	8.92
Nickel	7.07
Copper	14.9
Zinc	15.9
Arsenic	2.81
Selenium	<0.912
Silver	<0.0784
Cadmium	<0.204
Antimony	0.155
Barium	35.1
Thallium	<0.0434 j
Lead	2.44

Analysis For Total Metals By EPA Method 200.8

Client ID:	EB-32-1.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306244-18
Date Analyzed:	07/03/13	Data File:	306244-18.036
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	102	60	125
Indium	80	60	125
Holmium	93	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.123
Chromium	13.1
Nickel	23.5
Copper	9.19
Zinc	20.2
Arsenic	2.91
Selenium	<0.912
Silver	<0.0784
Cadmium	<0.204
Antimony	0.557
Barium	34.4
Thallium	<0.0434 j
Lead	2.96

Analysis For Total Metals By EPA Method 200.8

Client ID:	EB-32-5.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306244-20 x10
Date Analyzed:	07/03/13	Data File:	306244-20 x10.044
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	104	60	125
Indium	107	60	125
Holmium	95	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	1.28
Chromium	84.2
Nickel	33.3
Copper	1,820
Zinc	6,210
Arsenic	2,030
Selenium	<9.12
Silver	2.30
Cadmium	3.34
Antimony	1,010
Barium	160
Thallium	0.722
Lead	1,510

Analysis For Total Metals By EPA Method 200.8

Client ID:	EB-32-10.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306244-22
Date Analyzed:	07/03/13	Data File:	306244-22.038
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	99	60	125
Indium	88	60	125
Holmium	95	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.144
Chromium	5.45
Nickel	5.07
Copper	9.07
Zinc	16.7
Arsenic	2.35
Selenium	<0.912
Silver	<0.0784
Cadmium	<0.204
Antimony	2.20
Barium	19.0
Thallium	<0.0434 j
Lead	1.61

Analysis For Total Metals By EPA Method 200.8

Client ID:	EB-32-12.5	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306244-23
Date Analyzed:	07/03/13	Data File:	306244-23.039
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	99	60	125
Indium	88	60	125
Holmium	92	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.166
Chromium	9.80
Nickel	9.26
Copper	14.7
Zinc	26.1
Arsenic	2.71
Selenium	<0.912
Silver	<0.0784
Cadmium	0.314
Antimony	0.770
Barium	29.0
Thallium	<0.0434 j
Lead	2.06

Analysis For Total Metals By EPA Method 200.8

Client ID:	EB-91-10.0	Client:	SLR International Corp.
Date Received:	06/14/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306244-26
Date Analyzed:	07/03/13	Data File:	306244-26.041
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	102	60	125
Indium	87	60	125
Holmium	95	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	<0.0858
Chromium	5.74
Nickel	4.15
Copper	9.72
Zinc	12.5
Arsenic	1.99
Selenium	<0.912
Silver	<0.0784
Cadmium	<0.204
Antimony	0.272
Barium	19.7
Thallium	0.0494
Lead	1.48

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	I3-391 mb
Date Analyzed:	07/03/13	Data File:	I3-391 mb.020
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	95	60	125
Indium	92	60	125
Holmium	94	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	<0.0858
Chromium	<0.47
Nickel	<0.206
Copper	<0.071 j
Zinc	<0.97
Arsenic	<0.422
Selenium	<0.912
Silver	<0.0784
Cadmium	<0.204
Antimony	<0.106
Barium	<0.0524
Thallium	<0.0434 j
Lead	<0.0496

Date of Report: 07/25/13
Date Received: 06/14/13
Project: Crowley RIFS 101.00205.00019, F&BI 306244
Date Extracted: 07/01/13
Date Analyzed: 07/03/13

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Total Mercury
EB-41-1.0 306244-01	0.013
EB-41-5.0 306244-03	0.11
EB-41-10.0 306244-05	0.016
EB-41-15.0 306244-07	0.013
EB-50-1.0 306244-09	0.015
EB-50-5.0 306244-11	0.019
EB-50-7.5 306244-12	0.036
EB-46-1.0 306244-13	0.011
EB-46-2.5 306244-14	0.14
EB-46-8.0 306244-15	0.027
EB-46-10.0 306244-16	0.031

Date of Report: 07/25/13
Date Received: 06/14/13
Project: Crowley RIFS 101.00205.00019, F&BI 306244
Date Extracted: 07/01/13
Date Analyzed: 07/03/13

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Total Mercury
EB-32-1.0 306244-18	0.012
EB-32-5.0 306244-20 1/5	0.25
EB-32-10.0 306244-22	0.012
EB-32-12.5 306244-23	0.019
EB-91-10.0 306244-26	0.014
Method Blank	<0.002

Date of Report: 07/25/13
Date Received: 06/14/13
Project: Crowley RIFS 101.00205.00019, F&BI 306244

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TPH AS GASOLINE USING METHOD NWTPH-Gx

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Gasoline	mg/kg (ppm)	20	90	90	61-153	0

Date of Report: 07/25/13
Date Received: 06/14/13
Project: Crowley RIFS 101.00205.00019, F&BI 306244

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 306244-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	500	<12	114	120	64-133	5

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	500	118	58-147

Date of Report: 07/25/13
Date Received: 06/14/13
Project: Crowley RIFS 101.00205.00019, F&BI 306244

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 306244-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	mg/kg (ppm)	2.5	<0.02	19	22	10-56	15
Chloromethane	mg/kg (ppm)	2.5	<0.026	48	52	10-90	8
Vinyl chloride	mg/kg (ppm)	2.5	<0.016	50	53	10-91	6
Bromomethane	mg/kg (ppm)	2.5	<0.034	95	98	10-110	3
Chloroethane	mg/kg (ppm)	2.5	<0.024	68	73	10-101	7
Trichlorofluoromethane	mg/kg (ppm)	2.5	<0.02	61	64	10-95	5
Acetone	mg/kg (ppm)	12.5	<0.2	87	86	11-141	1
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.026	68	71	11-103	4
Methylene chloride	mg/kg (ppm)	2.5	<0.054	79	81	14-128	2
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2.5	<0.013	93	94	17-134	1
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.024	78	82	13-112	5
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.017	81	84	23-115	4
2,2-Dichloropropane	mg/kg (ppm)	2.5	<0.026	87	96	18-117	10
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.022	83	85	25-120	2
Chloroform	mg/kg (ppm)	2.5	<0.017	84	85	29-117	1
2-Butanone (MEK)	mg/kg (ppm)	12.5	<0.14	87	91	20-133	4
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.016	85	87	22-124	2
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.022	86	92	27-112	7
1,1-Dichloropropene	mg/kg (ppm)	2.5	<0.024	79	82	26-107	4
Carbon tetrachloride	mg/kg (ppm)	2.5	<0.03	91	101	22-115	10
Benzene	mg/kg (ppm)	2.5	<0.014	82	84	26-114	2
Trichloroethene	mg/kg (ppm)	2.5	<0.034	83	85	30-112	2
1,2-Dichloropropane	mg/kg (ppm)	2.5	<0.034	86	89	31-119	3
Bromodichloromethane	mg/kg (ppm)	2.5	<0.024	91	95	31-131	4
Dibromomethane	mg/kg (ppm)	2.5	<0.022	90	93	27-124	3
4-Methyl-2-pentanone	mg/kg (ppm)	12.5	<0.14	95	98	16-147	3
cis-1,3-Dichloropropene	mg/kg (ppm)	2.5	<0.022	99	106	28-137	7
Toluene	mg/kg (ppm)	2.5	<0.017	82	85	34-112	4
trans-1,3-Dichloropropene	mg/kg (ppm)	2.5	<0.015	91	99	30-136	8
1,1,2-Trichloroethane	mg/kg (ppm)	2.5	<0.014	88	91	32-126	3
2-Hexanone	mg/kg (ppm)	12.5	<0.096	91	94	17-147	3
1,3-Dichloropropane	mg/kg (ppm)	2.5	<0.02	88	90	29-125	2
Tetrachloroethene	mg/kg (ppm)	2.5	<0.026	82	85	27-110	4
Dibromochloromethane	mg/kg (ppm)	2.5	<0.026	90	96	32-143	6
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2.5	<0.03	102	111	32-126	8
Chlorobenzene	mg/kg (ppm)	2.5	<0.014	85	87	37-113	2
Ethylbenzene	mg/kg (ppm)	2.5	<0.013	84	87	38-111	4
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	2.5	<0.028	99	107	35-126	8
m,p-Xylene	mg/kg (ppm)	5	<0.03	86	89	38-112	3
o-Xylene	mg/kg (ppm)	2.5	<0.034	85	87	38-113	2
Styrene	mg/kg (ppm)	2.5	<0.022	87	90	38-118	3
Isopropylbenzene	mg/kg (ppm)	2.5	<0.019	85	88	37-114	3
Bromoform	mg/kg (ppm)	2.5	<0.034	91	98	18-155	7
n-Propylbenzene	mg/kg (ppm)	2.5	<0.017	87	88	36-114	1
Bromobenzene	mg/kg (ppm)	2.5	<0.012	87	87	40-115	0
1,3,5-Trimethylbenzene	mg/kg (ppm)	2.5	<0.011	88	90	35-116	2
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	2.5	<0.036	93	95	33-128	2
1,2,3-Trichloropropane	mg/kg (ppm)	2.5	<0.022	87	90	33-123	3
2-Chlorotoluene	mg/kg (ppm)	2.5	<0.016	85	86	39-110	1
4-Chlorotoluene	mg/kg (ppm)	2.5	<0.019	87	88	39-111	1
tert-Butylbenzene	mg/kg (ppm)	2.5	<0.022	88	90	36-116	2
1,2,4-Trimethylbenzene	mg/kg (ppm)	2.5	<0.016	87	89	35-116	2
sec-Butylbenzene	mg/kg (ppm)	2.5	<0.015	88	89	33-118	1
p-Isopropyltoluene	mg/kg (ppm)	2.5	<0.012	88	89	32-119	1
1,3-Dichlorobenzene	mg/kg (ppm)	2.5	<0.02	85	87	38-111	2
1,4-Dichlorobenzene	mg/kg (ppm)	2.5	<0.032	85	86	39-109	1
1,2-Dichlorobenzene	mg/kg (ppm)	2.5	<0.016	84	86	40-111	2
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	2.5	<0.08	89	95	34-134	7
1,2,4-Trichlorobenzene	mg/kg (ppm)	2.5	<0.036	79	83	31-117	5
Hexachlorobutadiene	mg/kg (ppm)	2.5	<0.04	74	79	25-122	7
Naphthalene	mg/kg (ppm)	2.5	<0.024	85	87	39-120	2
1,2,3-Trichlorobenzene	mg/kg (ppm)	2.5	<0.019	76	79	35-117	4

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Dichlorodifluoromethane	mg/kg (ppm)	2.5	52	10-76
Chloromethane	mg/kg (ppm)	2.5	76	34-98
Vinyl chloride	mg/kg (ppm)	2.5	83	42-107
Bromomethane	mg/kg (ppm)	2.5	90	46-113
Chloroethane	mg/kg (ppm)	2.5	96	47-115
Trichlorofluoromethane	mg/kg (ppm)	2.5	98	53-112
Acetone	mg/kg (ppm)	12.5	100	39-147
1,1-Dichloroethene	mg/kg (ppm)	2.5	93	65-110
Methylene chloride	mg/kg (ppm)	2.5	101	62-119
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2.5	111	72-122
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	102	71-113
1,1-Dichloroethane	mg/kg (ppm)	2.5	102	76-109
2,2-Dichloropropane	mg/kg (ppm)	2.5	126	64-151
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	102	77-110
Chloroform	mg/kg (ppm)	2.5	101	78-108
2-Butanone (MEK)	mg/kg (ppm)	12.5	99	60-121
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	101	80-109
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	118 vo	72-116
1,1-Dichloropropene	mg/kg (ppm)	2.5	100	77-108
Carbon tetrachloride	mg/kg (ppm)	2.5	141 vo	67-123
Benzene	mg/kg (ppm)	2.5	99	75-107
Trichloroethene	mg/kg (ppm)	2.5	101	72-107
1,2-Dichloropropane	mg/kg (ppm)	2.5	105	78-111
Bromodichloromethane	mg/kg (ppm)	2.5	119	75-126
Dibromomethane	mg/kg (ppm)	2.5	108	80-111
4-Methyl-2-pentanone	mg/kg (ppm)	12.5	114	80-128
cis-1,3-Dichloropropene	mg/kg (ppm)	2.5	130	71-138
Toluene	mg/kg (ppm)	2.5	98	79-112
trans-1,3-Dichloropropene	mg/kg (ppm)	2.5	117	77-135
1,1,2-Trichloroethane	mg/kg (ppm)	2.5	104	84-115
2-Hexanone	mg/kg (ppm)	12.5	110	71-129
1,3-Dichloropropane	mg/kg (ppm)	2.5	103	82-113
Tetrachloroethene	mg/kg (ppm)	2.5	98	77-110
Dibromochloromethane	mg/kg (ppm)	2.5	122	64-152
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2.5	130 vo	83-116
Chlorobenzene	mg/kg (ppm)	2.5	100	82-113
Ethylbenzene	mg/kg (ppm)	2.5	100	81-114
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	2.5	137 vo	76-125
m,p-Xylene	mg/kg (ppm)	5	102	82-115
o-Xylene	mg/kg (ppm)	2.5	101	81-116
Styrene	mg/kg (ppm)	2.5	103	81-118
Isopropylbenzene	mg/kg (ppm)	2.5	102	81-117
Bromoform	mg/kg (ppm)	2.5	130	50-174
n-Propylbenzene	mg/kg (ppm)	2.5	104	82-116
Bromobenzene	mg/kg (ppm)	2.5	101	82-118
1,3,5-Trimethylbenzene	mg/kg (ppm)	2.5	105	83-120
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	2.5	113	83-125
1,2,3-Trichloropropane	mg/kg (ppm)	2.5	105	79-116
2-Chlorotoluene	mg/kg (ppm)	2.5	101	80-114
4-Chlorotoluene	mg/kg (ppm)	2.5	103	82-114
tert-Butylbenzene	mg/kg (ppm)	2.5	104	82-116
1,2,4-Trimethylbenzene	mg/kg (ppm)	2.5	105	82-116
sec-Butylbenzene	mg/kg (ppm)	2.5	105	81-123
p-Isopropyltoluene	mg/kg (ppm)	2.5	105	82-124
1,3-Dichlorobenzene	mg/kg (ppm)	2.5	101	80-118
1,4-Dichlorobenzene	mg/kg (ppm)	2.5	100	79-117
1,2-Dichlorobenzene	mg/kg (ppm)	2.5	100	80-118
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	2.5	128	71-131
1,2,4-Trichlorobenzene	mg/kg (ppm)	2.5	95	75-122
Hexachlorobutadiene	mg/kg (ppm)	2.5	91	74-130
Naphthalene	mg/kg (ppm)	2.5	100	83-128
1,2,3-Trichlorobenzene	mg/kg (ppm)	2.5	90	80-126

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 306247-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Dichlorodifluoromethane	ug/L (ppb)	50	<0.16	105	55-144
Chloromethane	ug/L (ppb)	50	<0.22	104	67-131
Vinyl chloride	ug/L (ppb)	50	0.52	106	61-139
Bromomethane	ug/L (ppb)	50	<0.2	635 vo	66-129
Chloroethane	ug/L (ppb)	50	<0.18	191 vo	68-126
Trichlorofluoromethane	ug/L (ppb)	50	<0.17	136 vo	71-128
Acetone	ug/L (ppb)	250	<2.6	109	48-149
1,1-Dichloroethene	ug/L (ppb)	50	<0.19	105	71-123
Methylene chloride	ug/L (ppb)	50	<3	101	61-126
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	<0.13	106	68-125
trans-1,2-Dichloroethene	ug/L (ppb)	50	<0.24	104	72-122
1,1-Dichloroethane	ug/L (ppb)	50	<0.18	103	79-113
2,2-Dichloropropane	ug/L (ppb)	50	<0.3	119	58-132
cis-1,2-Dichloroethene	ug/L (ppb)	50	3.6	102	73-119
Chloroform	ug/L (ppb)	50	<0.24	100	80-112
2-Butanone (MEK)	ug/L (ppb)	250	<0.94	105	69-123
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<0.11	100	78-113
1,1,1-Trichloroethane	ug/L (ppb)	50	<0.2	113	79-116
1,1-Dichloropropene	ug/L (ppb)	50	<0.26	99	67-121
Carbon tetrachloride	ug/L (ppb)	50	<0.24	128 vo	72-123
Benzene	ug/L (ppb)	50	<0.13	98	79-109
Trichloroethene	ug/L (ppb)	50	1.4	100	75-109
1,2-Dichloropropane	ug/L (ppb)	50	<0.32	101	80-111
Bromodichloromethane	ug/L (ppb)	50	<0.38	116	78-117
Dibromomethane	ug/L (ppb)	50	<0.28	106	80-112
4-Methyl-2-pentanone	ug/L (ppb)	250	<1.3	111	79-123
cis-1,3-Dichloropropene	ug/L (ppb)	50	<0.2	116	76-120
Toluene	ug/L (ppb)	50	<0.13	96	73-117
trans-1,3-Dichloropropene	ug/L (ppb)	50	<0.34	105	75-122
1,1,2-Trichloroethane	ug/L (ppb)	50	<0.28	102	81-111
2-Hexanone	ug/L (ppb)	250	<1	111	75-126
1,3-Dichloropropane	ug/L (ppb)	50	<0.2	100	81-111
Tetrachloroethene	ug/L (ppb)	50	<0.28	97	72-113
Dibromochloromethane	ug/L (ppb)	50	<0.24	113	69-129
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	<0.24	124 vo	83-114
Chlorobenzene	ug/L (ppb)	50	<0.1	98	75-115
Ethylbenzene	ug/L (ppb)	50	<0.16	98	71-120
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	<0.32	128 vo	78-122
m,p-Xylene	ug/L (ppb)	100	<0.5	100	63-128
o-Xylene	ug/L (ppb)	50	<0.22	100	64-129
Styrene	ug/L (ppb)	50	<0.22	101	70-122
Isopropylbenzene	ug/L (ppb)	50	<0.15	101	76-118
Bromoform	ug/L (ppb)	50	<0.22	117	49-138
n-Propylbenzene	ug/L (ppb)	50	<0.14	99	74-117
Bromobenzene	ug/L (ppb)	50	<0.18	98	70-121
1,3,5-Trimethylbenzene	ug/L (ppb)	50	<0.18	102	81-112
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	<0.24	109	79-120
1,2,3-Trichloropropane	ug/L (ppb)	50	<0.28	101	72-119
2-Chlorotoluene	ug/L (ppb)	50	<0.13	97	77-114
4-Chlorotoluene	ug/L (ppb)	50	<0.16	98	81-109
tert-Butylbenzene	ug/L (ppb)	50	<0.15	101	81-116
1,2,4-Trimethylbenzene	ug/L (ppb)	50	<0.11	101	74-118
sec-Butylbenzene	ug/L (ppb)	50	<0.12	101	77-118
p-Isopropyltoluene	ug/L (ppb)	50	<0.15	101	64-132
1,3-Dichlorobenzene	ug/L (ppb)	50	<0.15	97	81-111
1,4-Dichlorobenzene	ug/L (ppb)	50	<0.094	97	78-110
1,2-Dichlorobenzene	ug/L (ppb)	50	<0.13	97	81-111
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	<0.44	112	69-129
1,2,4-Trichlorobenzene	ug/L (ppb)	50	<0.34	94	74-115
Hexachlorobutadiene	ug/L (ppb)	50	<0.46	89	67-120
Naphthalene	ug/L (ppb)	50	<0.28	102	63-136
1,2,3-Trichlorobenzene	ug/L (ppb)	50	<0.38	90	79-115

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	ug/L (ppb)	50	100	104	54-149	4
Chloromethane	ug/L (ppb)	50	97	102	67-133	5
Vinyl chloride	ug/L (ppb)	50	98	103	73-132	5
Bromomethane	ug/L (ppb)	50	604 vo	614 vo	69-123	2
Chloroethane	ug/L (ppb)	50	175 vo	186 vo	68-126	6
Trichlorofluoromethane	ug/L (ppb)	50	123	132	70-132	7
Acetone	ug/L (ppb)	250	102	110	44-145	8
1,1-Dichloroethene	ug/L (ppb)	50	100	106	75-119	6
Methylene chloride	ug/L (ppb)	50	98	104	63-132	6
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	91	98	70-122	7
trans-1,2-Dichloroethene	ug/L (ppb)	50	98	104	76-118	6
1,1-Dichloroethane	ug/L (ppb)	50	96	102	80-116	6
2,2-Dichloropropane	ug/L (ppb)	50	111	125	62-141	12
cis-1,2-Dichloroethene	ug/L (ppb)	50	95	100	81-111	5
Chloroform	ug/L (ppb)	50	118 vo	124 vo	81-109	5
2-Butanone (MEK)	ug/L (ppb)	250	98	101	53-140	3
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	93	98	79-109	5
1,1,1-Trichloroethane	ug/L (ppb)	50	106	113	80-116	6
1,1-Dichloropropene	ug/L (ppb)	50	94	99	78-112	5
Carbon tetrachloride	ug/L (ppb)	50	128	136 vo	72-128	6
Benzene	ug/L (ppb)	50	93	96	81-108	3
Trichloroethene	ug/L (ppb)	50	94	99	77-108	5
1,2-Dichloropropane	ug/L (ppb)	50	96	101	82-109	5
Bromodichloromethane	ug/L (ppb)	50	116	121 vo	76-120	4
Dibromomethane	ug/L (ppb)	50	100	105	80-110	5
4-Methyl-2-pentanone	ug/L (ppb)	250	104	110	59-142	6
cis-1,3-Dichloropropene	ug/L (ppb)	50	113	120	76-128	6
Toluene	ug/L (ppb)	50	92	96	83-108	4
trans-1,3-Dichloropropene	ug/L (ppb)	50	104	108	76-128	4
1,1,2-Trichloroethane	ug/L (ppb)	50	97	101	82-110	4
2-Hexanone	ug/L (ppb)	250	99	105	53-145	6
1,3-Dichloropropane	ug/L (ppb)	50	94	99	83-110	5
Tetrachloroethene	ug/L (ppb)	50	91	94	78-109	3
Dibromochloromethane	ug/L (ppb)	50	118	123	63-140	4
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	118 vo	124 vo	85-113	5
Chlorobenzene	ug/L (ppb)	50	92	96	84-108	4
Ethylbenzene	ug/L (ppb)	50	93	97	84-110	4
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	128 vo	135 vo	76-125	5
m,p-Xylene	ug/L (ppb)	100	95	99	84-112	4
o-Xylene	ug/L (ppb)	50	94	100	82-113	6
Styrene	ug/L (ppb)	50	96	101	84-116	5
Isopropylbenzene	ug/L (ppb)	50	95	100	81-122	5
Bromoform	ug/L (ppb)	50	127	130	40-161	2
n-Propylbenzene	ug/L (ppb)	50	95	99	81-115	4
Bromobenzene	ug/L (ppb)	50	93	96	80-113	3
1,3,5-Trimethylbenzene	ug/L (ppb)	50	97	102	83-117	5
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	105	110	79-118	5
1,2,3-Trichloropropane	ug/L (ppb)	50	96	100	74-116	4
2-Chlorotoluene	ug/L (ppb)	50	94	97	79-112	3
4-Chlorotoluene	ug/L (ppb)	50	94	98	81-113	4
tert-Butylbenzene	ug/L (ppb)	50	97	101	81-119	4
1,2,4-Trimethylbenzene	ug/L (ppb)	50	96	100	83-116	4
sec-Butylbenzene	ug/L (ppb)	50	97	102	83-116	5
p-Isopropyltoluene	ug/L (ppb)	50	98	102	82-119	4
1,3-Dichlorobenzene	ug/L (ppb)	50	92	97	83-111	5
1,4-Dichlorobenzene	ug/L (ppb)	50	92	95	82-109	3
1,2-Dichlorobenzene	ug/L (ppb)	50	92	96	83-111	4
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	124	125	62-133	1
1,2,4-Trichlorobenzene	ug/L (ppb)	50	93	95	77-117	2
Hexachlorobutadiene	ug/L (ppb)	50	89	95	74-118	7
Naphthalene	ug/L (ppb)	50	98	102	75-131	4
1,2,3-Trichlorobenzene	ug/L (ppb)	50	91	94	82-115	3

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270D

Laboratory Code: 306244-05 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Phenol	mg/kg (ppm)	1.7	<0.0054	74	76	50-150	3
Bis(2-chloroethyl) ether	mg/kg (ppm)	1.7	<0.0016	78	82	50-150	5
2-Chlorophenol	mg/kg (ppm)	1.7	<0.0062	76	79	50-150	4
1,3-Dichlorobenzene	mg/kg (ppm)	1.7	<0.0026	67	79	50-150	16
1,4-Dichlorobenzene	mg/kg (ppm)	1.7	<0.0024	68	77	50-150	12
1,2-Dichlorobenzene	mg/kg (ppm)	1.7	<0.004	70	79	50-150	12
Benzyl alcohol	mg/kg (ppm)	1.7	0.022	73	72	50-150	1
Bis(2-chloroisopropyl) ether	mg/kg (ppm)	1.7	<0.0016	71	79	50-150	11
2-Methylphenol	mg/kg (ppm)	1.7	<0.0064	79	74	50-150	7
Hexachloroethane	mg/kg (ppm)	1.7	<0.0034	66	76	50-150	14
N-Nitroso-di-n-propylamine	mg/kg (ppm)	1.7	<0.003	79	79	50-150	0
3-Methylphenol + 4-Methylphenol	mg/kg (ppm)	1.7	<0.014	82	77	50-150	6
Nitrobenzene	mg/kg (ppm)	1.7	<0.0026	76	79	50-150	4
Isophorone	mg/kg (ppm)	1.7	<0.0012	73	75	50-150	3
2-Nitrophenol	mg/kg (ppm)	1.7	<0.0082	74	83	50-150	11
2,4-Dimethylphenol	mg/kg (ppm)	1.7	<0.019	62	42 vo	50-150	38 vo
Benzoic acid	mg/kg (ppm)	2.5	<0.055	70	72	50-150	3
Bis(2-chloroethoxy)methane	mg/kg (ppm)	1.7	<0.0014	75	79	50-150	5
2,4-Dichlorophenol	mg/kg (ppm)	1.7	<0.0058	80	80	50-150	0
1,2,4-Trichlorobenzene	mg/kg (ppm)	1.7	<0.0034	72	80	50-150	11
Hexachlorobutadiene	mg/kg (ppm)	1.7	<0.002	70	78	50-150	11
4-Chloroaniline	mg/kg (ppm)	3.3	<0.18	61	66	50-150	8
4-Chloro-3-methylphenol	mg/kg (ppm)	1.7	<0.0044	85	79	50-150	7
2-Methylnaphthalene	mg/kg (ppm)	1.7	<0.001	76	77	50-150	1
Hexachlorocyclopentadiene	mg/kg (ppm)	1.7	<0.0022	67	71	50-150	6
2,4,6-Trichlorophenol	mg/kg (ppm)	1.7	<0.008	79	81	50-150	2
2,4,5-Trichlorophenol	mg/kg (ppm)	1.7	<0.0096	88	87	50-150	1
2-Chloronaphthalene	mg/kg (ppm)	1.7	<0.0014	80	84	50-150	5
2-Nitroaniline	mg/kg (ppm)	1.7	<0.0026	82	84	50-150	2
Dimethyl phthalate	mg/kg (ppm)	1.7	<0.0012	78	81	50-150	4
2,6-Dinitrotoluene	mg/kg (ppm)	1.7	<0.0018	85	88	50-150	3
3-Nitroaniline	mg/kg (ppm)	3.3	<0.017	58	69	50-150	17
2,4-Dinitrophenol	mg/kg (ppm)	1.7	<0.0014	45 vo	46 vo	50-150	2
Dibenzofuran	mg/kg (ppm)	1.7	<0.001	81	83	50-150	2
2,4-Dinitrotoluene	mg/kg (ppm)	1.7	<0.0016	80	84	50-150	5
4-Nitrophenol	mg/kg (ppm)	1.7	<0.018	65	69	50-150	6
Diethyl phthalate	mg/kg (ppm)	1.7	<0.004	78	82	50-150	5
4-Chlorophenyl phenyl ether	mg/kg (ppm)	1.7	<0.0016	81	82	50-150	1
N-Nitrosodiphenylamine	mg/kg (ppm)	1.7	<0.001	79	82	50-150	4
4-Nitroaniline	mg/kg (ppm)	3.3	<0.018	66	79	50-150	18
4,6-Dinitro-2-methylphenol	mg/kg (ppm)	1.7	<0.011	56	56	50-150	0
4-Bromophenyl phenyl ether	mg/kg (ppm)	1.7	<0.0016	81	83	50-150	2
Hexachlorobenzene	mg/kg (ppm)	1.7	<0.001	80	81	50-150	1
Pentachlorophenol	mg/kg (ppm)	1.7	<0.0062	87	84	50-150	4
Carbazole	mg/kg (ppm)	1.7	<0.002	79	82	50-150	4
Di-n-butyl phthalate	mg/kg (ppm)	1.7	<0.02	79	81	50-150	2
Benzyl butyl phthalate	mg/kg (ppm)	1.7	<0.0058	80	84	50-150	5
Bis(2-ethylhexyl) phthalate	mg/kg (ppm)	1.7	<0.013	86	89	50-150	3
Di-n-octyl phthalate	mg/kg (ppm)	1.7	<0.0034	87	92	50-150	6

Date of Report: 07/25/13
Date Received: 06/14/13
Project: Crowley RIFS 101.00205.00019, F&BI 306244

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270D

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Phenol	mg/kg (ppm)	1.7	86	90	51-119	5
Bis(2-chloroethyl) ether	mg/kg (ppm)	1.7	95	100	60-112	5
2-Chlorophenol	mg/kg (ppm)	1.7	91	95	59-114	4
1,3-Dichlorobenzene	mg/kg (ppm)	1.7	90	90	62-113	0
1,4-Dichlorobenzene	mg/kg (ppm)	1.7	87	88	61-114	1
1,2-Dichlorobenzene	mg/kg (ppm)	1.7	88	90	61-113	2
Benzyl alcohol	mg/kg (ppm)	1.7	96	102	50-119	6
Bis(2-chloroisopropyl) ether	mg/kg (ppm)	1.7	84	87	59-113	4
2-Methylphenol	mg/kg (ppm)	1.7	88	96	58-115	9
Hexachloroethane	mg/kg (ppm)	1.7	87	87	63-114	0
N-Nitroso-di-n-propylamine	mg/kg (ppm)	1.7	92	97	62-114	5
3-Methylphenol + 4-Methylphenol	mg/kg (ppm)	1.7	95	102	54-120	7
Nitrobenzene	mg/kg (ppm)	1.7	88	90	59-114	2
Isophorone	mg/kg (ppm)	1.7	89	90	61-113	1
2-Nitrophenol	mg/kg (ppm)	1.7	91	94	59-114	3
2,4-Dimethylphenol	mg/kg (ppm)	1.7	84	85	54-107	1
Benzoic acid	mg/kg (ppm)	2.5	123	139	43-150	12
Bis(2-chloroethoxy)methane	mg/kg (ppm)	1.7	89	89	60-114	0
2,4-Dichlorophenol	mg/kg (ppm)	1.7	97	102	57-118	5
1,2,4-Trichlorobenzene	mg/kg (ppm)	1.7	89	90	56-112	1
Hexachlorobutadiene	mg/kg (ppm)	1.7	85	86	60-116	1
4-Chloroaniline	mg/kg (ppm)	3.3	56	64	10-126	13
4-Chloro-3-methylphenol	mg/kg (ppm)	1.7	101	110	59-115	9
2-Methylnaphthalene	mg/kg (ppm)	1.7	90	92	60-115	2
Hexachlorocyclopentadiene	mg/kg (ppm)	1.7	93	97	41-107	4
2,4,6-Trichlorophenol	mg/kg (ppm)	1.7	98	103	47-119	5
2,4,5-Trichlorophenol	mg/kg (ppm)	1.7	103	108	61-121	5
2-Chloronaphthalene	mg/kg (ppm)	1.7	95	97	58-114	2
2-Nitroaniline	mg/kg (ppm)	1.7	99	105	55-119	6
Dimethyl phthalate	mg/kg (ppm)	1.7	94	99	58-116	5
2,6-Dinitrotoluene	mg/kg (ppm)	1.7	100	106	57-119	6
3-Nitroaniline	mg/kg (ppm)	3.3	72	76	10-143	5
2,4-Dinitrophenol	mg/kg (ppm)	1.7	96	109	40-122	13
Dibenzofuran	mg/kg (ppm)	1.7	94	97	56-115	3
2,4-Dinitrotoluene	mg/kg (ppm)	1.7	98	103	53-126	5
4-Nitrophenol	mg/kg (ppm)	1.7	107	117	40-124	9
Diethyl phthalate	mg/kg (ppm)	1.7	94	99	57-116	5
4-Chlorophenyl phenyl ether	mg/kg (ppm)	1.7	95	98	54-119	3
N-Nitrosodiphenylamine	mg/kg (ppm)	1.7	92	95	54-113	3
4-Nitroaniline	mg/kg (ppm)	3.3	92	98	47-109	6
4,6-Dinitro-2-methylphenol	mg/kg (ppm)	1.7	87	97	57-108	11
4-Bromophenyl phenyl ether	mg/kg (ppm)	1.7	94	97	56-116	3
Hexachlorobenzene	mg/kg (ppm)	1.7	94	96	57-115	2
Pentachlorophenol	mg/kg (ppm)	1.7	108	112	45-123	4
Carbazole	mg/kg (ppm)	1.7	93	97	57-116	4
Di-n-butyl phthalate	mg/kg (ppm)	1.7	95	97	56-118	2
Benzyl butyl phthalate	mg/kg (ppm)	1.7	98	100	56-122	2
Bis(2-ethylhexyl) phthalate	mg/kg (ppm)	1.7	101	110	56-125	9
Di-n-octyl phthalate	mg/kg (ppm)	1.7	103	107	58-120	4

Date of Report: 07/25/13
Date Received: 06/14/13
Project: Crowley RIFS 101.00205.00019, F&BI 306244

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR PNA'S BY EPA METHOD 8270D SIM

Laboratory Code: 306244-22 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.17	<0.00022	51	53	44-129	4
Acenaphthylene	mg/kg (ppm)	0.17	<0.000091	62	60	52-121	3
Acenaphthene	mg/kg (ppm)	0.17	<0.00014	64	62	51-123	3
Fluorene	mg/kg (ppm)	0.17	<0.00015	72	69	37-137	4
Phenanthrene	mg/kg (ppm)	0.17	0.00066	68	64	45-124	6
Anthracene	mg/kg (ppm)	0.17	<0.000088	72	68	32-124	6
Fluoranthene	mg/kg (ppm)	0.17	<0.00028	83	82	50-125	1
Pyrene	mg/kg (ppm)	0.17	<0.00026	78	79	41-135	1
Benz(a)anthracene	mg/kg (ppm)	0.17	0.00021	69	65	23-144	6
Chrysene	mg/kg (ppm)	0.17	0.00023	79	81	45-122	2
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	<0.00018	67	68	31-144	1
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	<0.00036	71	73	45-130	3
Benzo(a)pyrene	mg/kg (ppm)	0.17	<0.00022	62	62	39-128	0
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	<0.00062	62	63	28-146	2
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	<0.00034	60	59	46-129	2
Benzo(g,h,i)perylene	mg/kg (ppm)	0.17	<0.00034	59	67	37-133	13

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.17	75	84	58-121	11
Acenaphthylene	mg/kg (ppm)	0.17	79	88	54-121	11
Acenaphthene	mg/kg (ppm)	0.17	80	88	54-123	10
Fluorene	mg/kg (ppm)	0.17	84	93	56-127	10
Phenanthrene	mg/kg (ppm)	0.17	83	89	55-122	7
Anthracene	mg/kg (ppm)	0.17	80	85	50-120	6
Fluoranthene	mg/kg (ppm)	0.17	93	101	54-129	8
Pyrene	mg/kg (ppm)	0.17	91	98	53-127	7
Benz(a)anthracene	mg/kg (ppm)	0.17	84	91	51-115	8
Chrysene	mg/kg (ppm)	0.17	90	97	55-129	7
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	86	94	56-123	9
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	79	82	54-131	4
Benzo(a)pyrene	mg/kg (ppm)	0.17	68	76	51-118	11
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	81	90	49-148	11
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	79	88	50-141	11
Benzo(g,h,i)perylene	mg/kg (ppm)	0.17	74	84	52-131	13

Date of Report: 07/25/13
Date Received: 06/14/13
Project: Crowley RIFS 101.00205.00019, F&BI 306244

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR PNA'S BY EPA METHOD 8270D SIM

Laboratory Code: 306220-06 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Benz(a)anthracene	mg/kg (ppm)	0.17	<0.00018	73	68	23-144	7
Chrysene	mg/kg (ppm)	0.17	<0.00019	78	72	45-122	8
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	<0.00018	69	66	31-144	4
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	<0.00036	63	61	45-130	3
Benzo(a)pyrene	mg/kg (ppm)	0.17	<0.00022	66	64	39-128	3
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	<0.00062	75	71	28-146	5
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	<0.00034	68	62	46-129	9

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Benz(a)anthracene	mg/kg (ppm)	0.17	84	81	51-115	4
Chrysene	mg/kg (ppm)	0.17	89	87	55-129	2
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	86	84	56-123	2
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	76	75	54-131	1
Benzo(a)pyrene	mg/kg (ppm)	0.17	72	70	51-118	3
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	94	91	49-148	3
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	86	84	50-141	2

Date of Report: 07/25/13
Date Received: 06/14/13
Project: Crowley RIFS 101.00205.00019, F&BI 306244

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS AS AROCLOR 1016/1260 BY EPA METHOD 8082A

Laboratory Code: 306244-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Control Limits	RPD (Limit 20)
Aroclor 1016	mg/kg (ppm)	0.4	<0.033	89	100	50-150	12
Aroclor 1260	mg/kg (ppm)	0.4	<0.033	95	96	50-150	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	Acceptance Criteria
Aroclor 1016	mg/kg (ppm)	0.4	98	70-130
Aroclor 1260	mg/kg (ppm)	0.4	98	70-130

Date of Report: 07/25/13
Date Received: 06/14/13
Project: Crowley RIFS 101.00205.00019, F&BI 306244

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 306244-14 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Beryllium	mg/kg (ppm)	5	0.266	88	85	67-138	3
Chromium	mg/kg (ppm)	50	32.7	45 b	46 b	57-128	2 b
Nickel	mg/kg (ppm)	25	11.8	73 b	78 b	69-112	7 b
Copper	mg/kg (ppm)	50	318	80 b	21 b	57-120	117 b
Zinc	mg/kg (ppm)	50	1,170	0 b	0 b	55-129	0 b
Arsenic	mg/kg (ppm)	10	380	0 b	0 b	70-118	0 b
Selenium	mg/kg (ppm)	5	<0.912	67	64	64-117	5
Silver	mg/kg (ppm)	10	0.437	68 b	66 b	73-122	3 b
Cadmium	mg/kg (ppm)	10	0.885	68 b	66 b	83-116	3 b
Antimony	mg/kg (ppm)	20	201	0 b	0 b	54-116	0 b
Barium	mg/kg (ppm)	50	74.4	48 b	41 b	60-141	16 b
Thallium	mg/kg (ppm)	5	0.218	99 b	95 b	68-121	4 b
Lead	mg/kg (ppm)	50	457	0 b	37 b	59-148	200 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Beryllium	mg/kg (ppm)	5	118	69-146
Chromium	mg/kg (ppm)	50	107	78-121
Nickel	mg/kg (ppm)	25	107	82-122
Copper	mg/kg (ppm)	50	104	82-119
Zinc	mg/kg (ppm)	50	99	81-120
Arsenic	mg/kg (ppm)	10	109	83-113
Selenium	mg/kg (ppm)	5	108	84-115
Silver	mg/kg (ppm)	10	108	81-116
Cadmium	mg/kg (ppm)	10	106	54-114
Antimony	mg/kg (ppm)	20	104	69-114
Barium	mg/kg (ppm)	50	106	85-116
Thallium	mg/kg (ppm)	5	107	77-123
Lead	mg/kg (ppm)	50	108	80-120

Date of Report: 07/25/13
Date Received: 06/14/13
Project: Crowley RIFS 101.00205.00019, F&BI 306244

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Laboratory Code: 306244-14 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Mercury	mg/kg (ppm)	0.125	0.14	98 b	95 b	62-140	3 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Mercury	mg/kg (ppm)	0.125	87	63-131

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

306244

SAMPLE CHAIN OF CUSTODY ~~6/5~~ 6/14/13 ~~6/11~~ VI/VS4/BT4

Page # 1 of 3

Send Report To Mike Staton

Company SLR International Corp

Address 22118 20th Ave SE, 6202

City, State, ZIP Bothell, WA 98021

Phone # 425-402-8800 Fax # 425-402-8488

SAMPLERS (signature)

PROJECT NAME/NO.: Crowley KLFS 101.002.05.0019

PO#: 101.002.05.0019

REMARKS: NWTPH-Dx after silica gel cleanup; Hold for Color; email COC to mstaton@slrconsulting.com

TURNAROUND TIME: ☐ Standard (2 Weeks) ☐ RUSH ____ Rush charges authorized by ____

SAMPLE DISPOSAL: ☐ Dispose after 30 days ☐ Return samples ☐ Will call with instructions

✓=added per Mike Staton 7/9/13

✓=added per Mike Staton 7/22/13

	Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260C	SVOCs by 8270D	HFS	NWTPH-Dx	PAHs by 8270D SIM	PCBs by 8082A	HFS by 8081B	Priority Pollut. Metals by 200.8	Color #1946 HOLD	Notes
	EB-41-1.0	01A-F	6/14/13	0810	Soil	6				X	X		X	X	X	X	X	X	
XLD	EB-41-2.5	02		0815															HOLD
	EB-41-5.0	03		0825															
XLD	EB-41-7.5	04		0830															HOLD
	EB-41-10.0	05		0840															
XLD	EB-41-12.5	06		0845															HOLD
	EB-41-15.0	07		0905															
XLD	EB-41-20.0	08		0910										✓					HOLD
	EB-50-1.0	09		1010															
XLD	EB-50-2.5	10		1015															HOLD

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FORMS\COC\COC.DOC

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Amanda Mengiot	SLR	6/14/13	1600
Received by:		DORO	FRBI	"	"
Relinquished by:					
Received by:			Samples received at 5 °C		

306244

SAMPLE CHAIN OF CUSTODY

KJ 6/14/13 V1/VSY/BI4

Page 2 of 3

Send Report To Mike Staton
Company SLR International Corp
Address 22118 20th Ave SE, G202
City, State, ZIP Bothell, WA 98021
Phone # 425-402-8500 Fax # 425-402-8488

SAMPLERS (signature) Amanda Mengniot

PROJECT NAME/NO. Crowley RIFS 101.00205.00019

PO# 101.00205.00019

REMARKS
NWTPH-Dx after silica gel cleanup
Hold for C-ter
email COC to mstaton@slrconsulting.com

TURNAROUND TIME
☒ Standard (2 Weeks)
☐ RUSH
Rush charges authorized by

SAMPLE DISPOSAL
☐ Dispose after 30 days
☐ Return samples
☐ Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260C	SVOCs by 8270D	GRO NWTPH-Gx	DRO+HO NWTPH-Dx	NWTPH-Dx PAHs by 8270D SIM	PCBs by 8082A	Hg by 1631E	Priority Pollutant Metals by 200.8	Cyanide by 9014	Notes
EB-50-5.0	11	AF 6/14/13	1025	SOIL	6				X	X		X	X	X	X	X	X	
EB-50-7.5	12		1030															
EB-46-1.0	13		1130															
EB-46-2.5	14	AJ	1135		10				X	X	X	X	X	X	X	X	X	
EB-46-8.0	15	AF	1240		6						NO							NO GRO
EB-46-10.0	16		1250								NO							NO GRO
HOLD EB-46-12.5	17		1300								NO							NO GRO HOLD
EB-32-1.0	18	AJ	1340		10						X							NO GRO
HOLD EB-32-2.5	19		1345								X							NO GRO HOLD
EB-32-5.0	20		1350								X							

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: Amanda Mengniot	Amanda Mengniot	SLR	6/14/13	1600
Received by: David	David	F+BI	"	"
Relinquished by:				
Received by:		Samples received at 5 °C		

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FORMS\COC\COC.DOC

306244

SAMPLE CHAIN OF CUSTODY KJ 6/14/13 V1/VS4/BIY

Page # 3 of 3

Send Report To Mike Staton
Company SLR International Corp
Address 22118 20th AVE SE, #202
City, State, ZIP Bothell, WA 98021
Phone # 425-402-8800 Fax # 425-402-8488

SAMPLERS (signature)

PROJECT NAME/NO.
Crowley RIFS
101.00205.00019

PO#
101.00205.00019

REMARKS
NWTPH-Dx after silica gel cleanup
Hold for Cr6+
email COC to mstaton@slrconsulting.com

TURNAROUND TIME
☑ Standard (2 Weeks)
☐ RUSH
Rush charges authorized by

SAMPLE DISPOSAL
☐ Dispose after 30 days
☐ Return samples
☐ Will call with instructions

	Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260C	SVOCs by 8270D	Cr6 by 7196A	Dioxins 1613B	NWTPH-Dx	PAHs by 8270D SIM	PCBs by 8082A	Hg by 7471B	Priority Pollutant metals by 6020A	Cr6+ by 7196A HOLD	Notes
HOLD	EB-32-7.5	21A-J	6/14/13	1355	SOIL	10				X	X	X	X	X	X	X	X	X	X	HOLD
	EB-32-10.0	22		1410																
	EB-32-12.5	23		1425																
HOLD	EB-32-20.0	24		1450																HOLD
	TB-060413	25AB		1500	WATER	2				X										
	EB-91-10.0	26AF		0800	SOIL	6				X	X	X	X	X	X	X	X	X	X	

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Amanda Mengis	SLR	6/14/13	1600
Received by:	DAVID	FEDEX	11	1
Relinquished by:				
Received by:		Samples received at 5 °C		

Friedman & Bruya, Inc.
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Seattle, WA 98119-2029
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Fax (206) 283-5044

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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Kurt Johnson, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

July 25, 2013

Mike Staton
SLR International Corp.
22118 20th Ave. SE., G-202
Bothell, WA 98021

Dear Mr. Staton:

Included are the results from the testing of material submitted on June 18, 2013 from the Crowley RIFS 101.00205.00019, F&BI 306293 project. There are 51 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michele Costales Poquiz

Michele Costales Poquiz
Chemist

Enclosures
SLR0725R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on June 18, 2013 by Friedman & Bruya, Inc. from the SLR International Corp. Crowley RIFS 101.00205.00019, F&BI 306293 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SLR International Corp.
306293-01	EB-5-1.0
306293-02	EB-5-2.5
306293-03	EB-5-5.0
306293-04	EB-5-7.5
306293-05	EB-5-10.0
306293-06	EB-5-12.5
306293-07	TB-061813
306293-08	EB-93-10.0

Total Petroluem Hydrocarbons as Gasoline by Method NWTPH-Gx

All quality control requirements were acceptable.

Total Petroluem Hydrocarbons as Diesel and Motor Oil by Method NWTPH-Dx with Silica Gel

All quality control requirements were acceptable.

Volatile Compounds by EPA Method 8260C

The presence of methylene chloride in the method blank and acetone in the trip blank is likely due to laboratory contamination. The results have been flagged accordingly.

The trip blank sample was received with incorrect preservation for the 8260 analysis of vinyl chloride. The result should be considered an estimate.

The percent recovery for the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) exceeded acceptance criteria for several compounds. The results have been flagged accordingly.

Semivolatile Organic Compounds by EPA Method 8270D

The samples EB-5-1.0, EB-5-5.0, EB-5-10.0, and EB-93-10.0 were diluted due to matrix interferences. The reporting limits have been raised accordingly.

The percent recovery for the LCS, matrix spike (MS) and/or matrix spike duplicate (MSD) exceeded acceptance criteria for 2,4-dimethylphenol and 2,4-dinitrophenol. In addition, the relative percent difference (RPD) for the MS/MSD and LCS/laboratory control sample duplicate (LCSD) exceeded acceptance criteria for 2,4-dimethylphenol. The results have been flagged accordingly.

CASE NARRATIVE (continued)

Semivolatile Organic Compounds by EPA Method 8270D SIM
The samples EB-5-1.0, EB-5-5.0, and EB-93-10.0 were diluted due to matrix interferences. The reporting limits have been raised accordingly.

Polychlorinated Biphenyls as Aroclor 1016/1260 by EPA Method 8082A
All quality control requirements were acceptable.

Total Metals by EPA Method 200.8
All quality control requirements were acceptable.

Total Mercury by EPA Method 1631E
All quality control requirements were acceptable.

Date of Report: 07/25/13
Date Received: 06/18/13
Project: Crowley RIFS 101.00205.00019, F&BI 306293
Date Extracted: 06/20/13
Date Analyzed: 06/20/13

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Gasoline Range	Surrogate (% Recovery) (Limit 58-139)
EB-5-1.0 306293-01	0.29	82
EB-5-5.0 306293-03	<0.20	78
EB-5-10.0 306293-05	9.8	80
EB-93-10.0 306293-08	1.7	83
Method Blank 03-1164 MB	<0.20	85

Date of Report: 07/25/13
Date Received: 06/18/13
Project: Crowley RIFS 101.00205.00019, F&BI 306293
Date Extracted: 06/21/13 and 07/02/13
Date Analyzed: 06/21/13, 06/24/13, and 07/24/13

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx
Sample Extracts Passed Through a Silica Gel Column Prior to Analysis
Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 53-144)
EB-5-1.0 306293-01	400 x	1,100	84
EB-5-5.0 306293-03	<12	110	108
EB-5-10.0 306293-05	180	51 x	107
EB-93-10.0 306293-08	150	<21	107
Method Blank 03-1199 MB	<12	<21	107

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EB-5-1.0	Client:	SLR International Corp.
Date Received:	06/18/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	306293-01
Date Analyzed:	06/21/13	Data File:	062119.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EB-5-5.0	Client:	SLR International Corp.
Date Received:	06/18/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	306293-03
Date Analyzed:	06/21/13	Data File:	062120.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EB-5-10.0	Client:	SLR International Corp.
Date Received:	06/18/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	306293-05
Date Analyzed:	06/21/13	Data File:	062121.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	0.043
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	0.060
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EB-93-10.0	Client:	SLR International Corp.
Date Received:	06/18/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	306293-08
Date Analyzed:	06/21/13	Data File:	062122.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	03-1120 mb
Date Analyzed:	06/20/13	Data File:	062021.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	96	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	0.17 lc	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	TB-061813	Client:	SLR International Corp.
Date Received:	06/18/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306293-07
Date Analyzed:	06/25/13	Data File:	062512.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	102	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16 j	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13 pr j	Dibromochloromethane	<0.24
Bromomethane	<0.2 j	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18 j	Chlorobenzene	<0.1 j
Trichlorofluoromethane	<0.17 j	Ethylbenzene	<0.16 j
Acetone	2.9 lc	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19 j	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13 j	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15 j
1,1-Dichloroethane	<0.18 j	Bromoform	<0.22
2,2-Dichloropropane	1.0	n-Propylbenzene	<0.14 j
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18 j
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18 j
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11 j	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13 j
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16 j
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15 j
Benzene	<0.13 j	1,2,4-Trimethylbenzene	<0.11 j
Trichloroethene	<0.17 j	sec-Butylbenzene	<0.12 j
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15 j
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15 j
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13 j
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38 jl

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	03-1244 mb
Date Analyzed:	06/25/13	Data File:	062510.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16 j	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13 j	Dibromochloromethane	<0.24
Bromomethane	<0.2 j	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18 j	Chlorobenzene	<0.1 j
Trichlorofluoromethane	<0.17 j	Ethylbenzene	<0.16 j
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19 j	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13 j	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15 j
1,1-Dichloroethane	<0.18 j	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14 j
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18 j
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18 j
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11 j	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13 j
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16 j
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15 j
Benzene	<0.13 j	1,2,4-Trimethylbenzene	<0.11 j
Trichloroethene	<0.17 j	sec-Butylbenzene	<0.12 j
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15 j
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15 j
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13 j
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13 j	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38 jl

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EB-5-1.0	Client:	SLR International Corp.
Date Received:	06/18/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/27/13	Lab ID:	306293-01 1/100
Date Analyzed:	07/01/13	Data File:	070113.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	74 ds	56	115
Phenol-d6	74 ds	54	113
Nitrobenzene-d5	70 ds	31	164
2-Fluorobiphenyl	80 ds	47	133
2,4,6-Tribromophenol	54 ds	35	141
Terphenyl-d14	105 ds	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.54	2,4,6-Trichlorophenol	<0.8
Bis(2-chloroethyl) ether	<0.16	2,4,5-Trichlorophenol	<0.96
2-Chlorophenol	<0.62	2-Chloronaphthalene	<0.14
1,3-Dichlorobenzene	<0.26	2-Nitroaniline	<0.26
1,4-Dichlorobenzene	<0.24	Dimethyl phthalate	<0.12
1,2-Dichlorobenzene	<0.4	2,6-Dinitrotoluene	<0.18
Benzyl alcohol	<0.5	3-Nitroaniline	<1.7
Bis(2-chloroisopropyl) ether	<0.16	2,4-Dinitrophenol	<1.4
2-Methylphenol	<0.64	Dibenzofuran	<0.1
Hexachloroethane	<0.34	2,4-Dinitrotoluene	<0.16
N-Nitroso-di-n-propylamine	<0.3	4-Nitrophenol	<1.8
3-Methylphenol + 4-Methylphenol	<1.4	Diethyl phthalate	<0.4
Nitrobenzene	<0.26	4-Chlorophenyl phenyl ether	<0.16
Isophorone	<0.12	N-Nitrosodiphenylamine	<0.1
2-Nitrophenol	<0.82	4-Nitroaniline	<1.8
2,4-Dimethylphenol	<1.9	4,6-Dinitro-2-methylphenol	<1.1
Benzoic acid	<5.5	4-Bromophenyl phenyl ether	<0.16
Bis(2-chloroethoxy)methane	<0.14	Hexachlorobenzene	<0.1
2,4-Dichlorophenol	<0.58	Pentachlorophenol	<0.62 j
1,2,4-Trichlorobenzene	<0.34	Carbazole	<0.2
Hexachlorobutadiene	<0.2	Di-n-butyl phthalate	<2
4-Chloroaniline	<18	Benzyl butyl phthalate	<0.58
4-Chloro-3-methylphenol	<0.44	Bis(2-ethylhexyl) phthalate	<1.3
2-Methylnaphthalene	<0.1	Di-n-octyl phthalate	<0.34
Hexachlorocyclopentadiene	<0.22		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EB-5-5.0	Client:	SLR International Corp.
Date Received:	06/18/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/27/13	Lab ID:	306293-03 1/100
Date Analyzed:	06/28/13	Data File:	062821.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	13 ds	56	115
Phenol-d6	20 ds	54	113
Nitrobenzene-d5	30 ds	31	164
2-Fluorobiphenyl	70 ds	47	133
2,4,6-Tribromophenol	0 ds	35	141
Terphenyl-d14	90 ds	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.54	2,4,6-Trichlorophenol	<0.8
Bis(2-chloroethyl) ether	<0.16	2,4,5-Trichlorophenol	<0.96
2-Chlorophenol	<0.62	2-Chloronaphthalene	<0.14
1,3-Dichlorobenzene	<0.26	2-Nitroaniline	<0.26
1,4-Dichlorobenzene	<0.24	Dimethyl phthalate	<0.12
1,2-Dichlorobenzene	<0.4	2,6-Dinitrotoluene	<0.18
Benzyl alcohol	<0.5	3-Nitroaniline	<1.7
Bis(2-chloroisopropyl) ether	<0.16	2,4-Dinitrophenol	<1.4
2-Methylphenol	<0.64	Dibenzofuran	<0.1
Hexachloroethane	<0.34	2,4-Dinitrotoluene	<0.16
N-Nitroso-di-n-propylamine	<0.3	4-Nitrophenol	<1.8
3-Methylphenol + 4-Methylphenol	<1.4	Diethyl phthalate	<0.4
Nitrobenzene	<0.26	4-Chlorophenyl phenyl ether	<0.16
Isophorone	<0.12	N-Nitrosodiphenylamine	<0.1
2-Nitrophenol	<0.82	4-Nitroaniline	<1.8
2,4-Dimethylphenol	<1.9	4,6-Dinitro-2-methylphenol	<1.1
Benzoic acid	<5.5	4-Bromophenyl phenyl ether	<0.16
Bis(2-chloroethoxy)methane	<0.14	Hexachlorobenzene	<0.1
2,4-Dichlorophenol	<0.58	Pentachlorophenol	<0.62 j
1,2,4-Trichlorobenzene	<0.34	Carbazole	<0.2
Hexachlorobutadiene	<0.2	Di-n-butyl phthalate	<2
4-Chloroaniline	<18	Benzyl butyl phthalate	<0.58
4-Chloro-3-methylphenol	<0.44	Bis(2-ethylhexyl) phthalate	<1.3
2-Methylnaphthalene	<0.1	Di-n-octyl phthalate	<0.34
Hexachlorocyclopentadiene	<0.22		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EB-5-10.0	Client:	SLR International Corp.
Date Received:	06/18/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/27/13	Lab ID:	306293-05 1/10
Date Analyzed:	07/01/13	Data File:	070111.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	76 ds	56	115
Phenol-d6	84 ds	54	113
Nitrobenzene-d5	75 ds	31	164
2-Fluorobiphenyl	81 ds	47	133
2,4,6-Tribromophenol	0 ds	35	141
Terphenyl-d14	95 ds	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.054	2,4,6-Trichlorophenol	<0.08
Bis(2-chloroethyl) ether	<0.016	2,4,5-Trichlorophenol	<0.096
2-Chlorophenol	<0.062	2-Chloronaphthalene	<0.014
1,3-Dichlorobenzene	<0.026	2-Nitroaniline	<0.026
1,4-Dichlorobenzene	<0.024	Dimethyl phthalate	<0.012
1,2-Dichlorobenzene	<0.04	2,6-Dinitrotoluene	<0.018
Benzyl alcohol	<0.05	3-Nitroaniline	<0.17
Bis(2-chloroisopropyl) ether	<0.016	2,4-Dinitrophenol	<0.14
2-Methylphenol	<0.064	Dibenzofuran	<0.01
Hexachloroethane	<0.034	2,4-Dinitrotoluene	<0.016
N-Nitroso-di-n-propylamine	<0.03	4-Nitrophenol	<0.18
3-Methylphenol + 4-Methylphenol	<0.14	Diethyl phthalate	<0.04
Nitrobenzene	<0.026	4-Chlorophenyl phenyl ether	<0.016
Isophorone	<0.012	N-Nitrosodiphenylamine	<0.01
2-Nitrophenol	<0.082	4-Nitroaniline	<0.18
2,4-Dimethylphenol	<0.19	4,6-Dinitro-2-methylphenol	<0.11
Benzoic acid	<0.55	4-Bromophenyl phenyl ether	<0.016
Bis(2-chloroethoxy)methane	<0.014	Hexachlorobenzene	<0.01
2,4-Dichlorophenol	<0.058	Pentachlorophenol	<0.062 j
1,2,4-Trichlorobenzene	<0.034	Carbazole	<0.02
Hexachlorobutadiene	<0.02	Di-n-butyl phthalate	<0.2
4-Chloroaniline	<1.8	Benzyl butyl phthalate	<0.058
4-Chloro-3-methylphenol	<0.044	Bis(2-ethylhexyl) phthalate	<0.13
2-Methylnaphthalene	0.035	Di-n-octyl phthalate	<0.034
Hexachlorocyclopentadiene	<0.022		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EB-5-12.5	Client:	SLR International Corp.
Date Received:	06/18/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306293-06
Date Analyzed:	07/20/13	Data File:	071934.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	59	56	115
Phenol-d6	68	54	113
Nitrobenzene-d5	67	31	164
2-Fluorobiphenyl	67	47	133
2,4,6-Tribromophenol	105 ca	35	141
Terphenyl-d14	80	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	0.0014
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	0.0056	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014
2-Methylphenol	<0.0064	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019 jl	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	<0.013
2-Methylnaphthalene	0.0010	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EB-93-10.0	Client:	SLR International Corp.
Date Received:	06/18/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/27/13	Lab ID:	306293-08 1/50
Date Analyzed:	07/01/13	Data File:	070114.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	64 ds	56	115
Phenol-d6	70 ds	54	113
Nitrobenzene-d5	55 ds	31	164
2-Fluorobiphenyl	75 ds	47	133
2,4,6-Tribromophenol	74 ds	35	141
Terphenyl-d14	90 ds	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.27	2,4,6-Trichlorophenol	<0.4
Bis(2-chloroethyl) ether	<0.08	2,4,5-Trichlorophenol	<0.48
2-Chlorophenol	<0.31	2-Chloronaphthalene	<0.07
1,3-Dichlorobenzene	<0.13	2-Nitroaniline	<0.13
1,4-Dichlorobenzene	<0.12	Dimethyl phthalate	<0.06
1,2-Dichlorobenzene	<0.2	2,6-Dinitrotoluene	<0.09
Benzyl alcohol	<0.25	3-Nitroaniline	<0.87
Bis(2-chloroisopropyl) ether	<0.08	2,4-Dinitrophenol	<0.69
2-Methylphenol	<0.32	Dibenzofuran	<0.05
Hexachloroethane	<0.17	2,4-Dinitrotoluene	<0.08
N-Nitroso-di-n-propylamine	<0.15	4-Nitrophenol	<0.89
3-Methylphenol + 4-Methylphenol	<0.72	Diethyl phthalate	<0.2
Nitrobenzene	<0.13	4-Chlorophenyl phenyl ether	<0.08
Isophorone	<0.06	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.41	4-Nitroaniline	<0.91
2,4-Dimethylphenol	<0.93	4,6-Dinitro-2-methylphenol	<0.53
Benzoic acid	<2.7	4-Bromophenyl phenyl ether	<0.08
Bis(2-chloroethoxy)methane	<0.07	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.29	Pentachlorophenol	<0.31 j
1,2,4-Trichlorobenzene	<0.17	Carbazole	<0.1
Hexachlorobutadiene	<0.1	Di-n-butyl phthalate	<1
4-Chloroaniline	<8.9	Benzyl butyl phthalate	<0.29
4-Chloro-3-methylphenol	<0.22	Bis(2-ethylhexyl) phthalate	<0.67
2-Methylnaphthalene	0.075	Di-n-octyl phthalate	<0.17
Hexachlorocyclopentadiene	<0.11		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/27/13	Lab ID:	03-1234 mb
Date Analyzed:	06/28/13	Data File:	062805.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	89	56	115
Phenol-d6	103	54	113
Nitrobenzene-d5	94	31	164
2-Fluorobiphenyl	92	47	133
2,4,6-Tribromophenol	107	35	141
Terphenyl-d14	98	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	<0.005	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014
2-Methylphenol	<0.0064	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062 j
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	<0.013
2-Methylnaphthalene	<0.001	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	03-1240 mb
Date Analyzed:	07/05/13	Data File:	070506.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	90	56	115
Phenol-d6	94	54	113
Nitrobenzene-d5	98	31	164
2-Fluorobiphenyl	95	47	133
2,4,6-Tribromophenol	97	35	141
Terphenyl-d14	112	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	<0.005	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014
2-Methylphenol	<0.0064	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019 jl	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062 j
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	<0.013
2-Methylnaphthalene	<0.001	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

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ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-5-1.0	Client:	SLR International Corp.
Date Received:	06/18/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/27/13	Lab ID:	306293-01 1/10
Date Analyzed:	07/15/13	Data File:	071507.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	83 ds	50	150
Benzo(a)anthracene-d12	125 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.0068
Acenaphthylene	0.0017
Acenaphthene	<0.0014
Fluorene	<0.0015
Phenanthrene	0.019
Anthracene	0.0046
Fluoranthene	0.023
Pyrene	0.029
Benz(a)anthracene	0.012
Chrysene	0.019
Benzo(a)pyrene	0.013
Benzo(b)fluoranthene	0.017
Benzo(k)fluoranthene	0.0052
Indeno(1,2,3-cd)pyrene	0.014
Dibenz(a,h)anthracene	<0.0034
Benzo(g,h,i)perylene	0.018

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ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-5-5.0	Client:	SLR International Corp.
Date Received:	06/18/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/27/13	Lab ID:	306293-03 1/10
Date Analyzed:	07/05/13	Data File:	070520.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	71	50	150
Benzo(a)anthracene-d12	61	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.0022
Acenaphthylene	<0.00091
Acenaphthene	<0.0014
Fluorene	<0.0015
Phenanthrene	<0.0032
Anthracene	<0.00088
Fluoranthene	0.0044
Pyrene	0.0053
Benz(a)anthracene	0.0029
Chrysene	0.0049
Benzo(a)pyrene	0.0024
Benzo(b)fluoranthene	0.0035
Benzo(k)fluoranthene	<0.0036
Indeno(1,2,3-cd)pyrene	<0.0062
Dibenz(a,h)anthracene	<0.0034
Benzo(g,h,i)perylene	<0.0034

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ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-5-10.0	Client:	SLR International Corp.
Date Received:	06/18/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/27/13	Lab ID:	306293-05
Date Analyzed:	07/15/13	Data File:	071505.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	72	50	150
Benzo(a)anthracene-d12	104	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.00022
Acenaphthylene	<0.000091
Acenaphthene	0.0058
Fluorene	0.016
Phenanthrene	0.011
Anthracene	<0.000088
Fluoranthene	0.00088
Pyrene	0.0017
Benz(a)anthracene	0.00058
Chrysene	0.0011
Benzo(a)pyrene	<0.00022
Benzo(b)fluoranthene	0.00050
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	<0.00062
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	0.00042

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ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-5-12.5	Client:	SLR International Corp.
Date Received:	06/18/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/27/13	Lab ID:	306293-06
Date Analyzed:	07/15/13	Data File:	071506.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	67	50	150
Benzo(a)anthracene-d12	93	35	159

Compounds:	Concentration mg/kg (ppm)
Fluorene	0.00025
Benz(a)anthracene	0.00021
Chrysene	0.00035
Benzo(a)pyrene	<0.00022
Benzo(b)fluoranthene	0.00023
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	<0.00062

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ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-93-10.0	Client:	SLR International Corp.
Date Received:	06/18/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/27/13	Lab ID:	306293-08
Date Analyzed:	07/15/13	Data File:	071508.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	60	50	150
Benzo(a)anthracene-d12	95	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.00022
Acenaphthylene	<0.000091
Acenaphthene	0.0059
Fluorene	0.067 ve
Phenanthrene	0.046
Anthracene	<0.000088
Fluoranthene	0.0037
Pyrene	0.0064
Benz(a)anthracene	0.0024
Chrysene	0.0046
Benzo(a)pyrene	0.0017
Benzo(b)fluoranthene	0.0023
Benzo(k)fluoranthene	0.00069
Indeno(1,2,3-cd)pyrene	0.0013
Dibenz(a,h)anthracene	0.00051
Benzo(g,h,i)perylene	0.0019

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-93-10.0	Client:	SLR International Corp.
Date Received:	06/18/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/27/13	Lab ID:	306293-08 1/50
Date Analyzed:	07/05/13	Data File:	070519.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	201 ds	50	150
Benzo(a)anthracene-d12	105 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.011
Acenaphthylene	<0.0046
Acenaphthene	0.016
Fluorene	0.057
Phenanthrene	0.045
Anthracene	<0.0044
Fluoranthene	<0.014
Pyrene	<0.013
Benz(a)anthracene	<0.009
Chrysene	<0.0095
Benzo(a)pyrene	<0.011
Benzo(b)fluoranthene	<0.0091
Benzo(k)fluoranthene	<0.018
Indeno(1,2,3-cd)pyrene	<0.031
Dibenz(a,h)anthracene	<0.017
Benzo(g,h,i)perylene	<0.017

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	03-1239 mb
Date Analyzed:	07/05/13	Data File:	070514.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	82	50	150
Benzo(a)anthracene-d12	98	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.00022
Acenaphthylene	<0.000091
Acenaphthene	<0.00014
Fluorene	<0.00015
Phenanthrene	<0.00032
Anthracene	<0.000088
Fluoranthene	<0.00028
Pyrene	<0.00026
Benz(a)anthracene	<0.00018
Chrysene	<0.00019
Benzo(a)pyrene	<0.00022
Benzo(b)fluoranthene	<0.00018
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	<0.00062
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	<0.00034

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/27/13	Lab ID:	03-1233 mb
Date Analyzed:	06/28/13	Data File:	062818.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	92	50	150
Benzo(a)anthracene-d12	97	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.00022
Acenaphthylene	<0.000091
Acenaphthene	<0.00014
Fluorene	<0.00015
Phenanthrene	<0.00032
Anthracene	<0.000088
Fluoranthene	<0.00028
Pyrene	<0.00026
Benz(a)anthracene	<0.00018
Chrysene	<0.00019
Benzo(a)pyrene	<0.00022
Benzo(b)fluoranthene	<0.00018
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	<0.00062
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	<0.00034

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EB-5-1.0	Client:	SLR International Corp.
Date Received:	06/18/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/28/13	Lab ID:	306293-01
Date Analyzed:	07/11/13	Data File:	37.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mcp

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	118	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EB-5-5.0	Client:	SLR International Corp.
Date Received:	06/18/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/28/13	Lab ID:	306293-03
Date Analyzed:	07/11/13	Data File:	37.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mcp

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	96	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EB-5-10.0	Client:	SLR International Corp.
Date Received:	06/18/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/28/13	Lab ID:	306293-05
Date Analyzed:	07/11/13	Data File:	41.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mcp

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	102	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EB-93-10.0	Client:	SLR International Corp.
Date Received:	06/18/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/28/13	Lab ID:	306293-08
Date Analyzed:	07/11/13	Data File:	43.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mcp

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	128	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

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Analysis For PCBs By EPA Method 8082

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/28/13	Lab ID:	03-1244 mb
Date Analyzed:	07/10/13	Data File:	54.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	89	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For Total Metals By EPA Method 200.8

Client ID:	EB-5-1.0	Client:	SLR International Corp.
Date Received:	06/18/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306293-01
Date Analyzed:	07/03/13	Data File:	306293-01.067
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	105	60	125
Indium	89	60	125
Holmium	94	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.101
Chromium	10.8
Nickel	11.6
Copper	29.3
Zinc	99.7
Arsenic	6.27
Selenium	<0.912
Silver	<0.0784
Cadmium	0.540
Antimony	2.23
Barium	43.6
Thallium	<0.0434 j
Lead	35.2

Analysis For Total Metals By EPA Method 200.8

Client ID:	EB-5-5.0	Client:	SLR International Corp.
Date Received:	06/18/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306293-03
Date Analyzed:	07/03/13	Data File:	306293-03.068
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	105	60	125
Indium	88	60	125
Holmium	95	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.110
Chromium	8.99
Nickel	5.24
Copper	13.3
Zinc	24.0
Arsenic	2.61
Selenium	<0.912
Silver	<0.0784
Cadmium	<0.204
Antimony	0.862
Barium	26.4
Thallium	<0.0434 j
Lead	4.23

Analysis For Total Metals By EPA Method 200.8

Client ID:	EB-5-10.0	Client:	SLR International Corp.
Date Received:	06/18/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306293-05
Date Analyzed:	07/03/13	Data File:	306293-05.069
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	106	60	125
Indium	91	60	125
Holmium	97	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.145
Chromium	9.11
Nickel	5.89
Copper	16.8
Zinc	22.8
Arsenic	2.92
Selenium	<0.912
Silver	<0.0784
Cadmium	<0.204
Antimony	0.658
Barium	34.1
Thallium	<0.0434 j
Lead	4.09

Analysis For Total Metals By EPA Method 200.8

Client ID:	EB-93-10.0	Client:	SLR International Corp.
Date Received:	06/18/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306293-08
Date Analyzed:	07/03/13	Data File:	306293-08.070
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	103	60	125
Indium	88	60	125
Holmium	93	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.125
Chromium	8.67
Nickel	5.62
Copper	13.9
Zinc	16.0
Arsenic	2.90
Selenium	<0.912
Silver	<0.0784
Cadmium	<0.204
Antimony	0.504
Barium	31.5
Thallium	<0.0434 j
Lead	2.14

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	I3-392 mb
Date Analyzed:	07/03/13	Data File:	I3-392 mb.046
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	98	60	125
Indium	97	60	125
Holmium	97	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	<0.0858
Chromium	<0.47
Nickel	<0.206
Copper	<0.071 j
Zinc	<0.97
Arsenic	<0.422
Selenium	<0.912
Silver	<0.0784
Cadmium	<0.204
Antimony	<0.106
Barium	<0.0524
Thallium	<0.0434 j
Lead	<0.0496

Date of Report: 07/25/13
Date Received: 06/18/13
Project: Crowley RIFS 101.00205.00019, F&BI 306293
Date Extracted: 07/01/13
Date Analyzed: 07/03/13

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Total Mercury
EB-5-1.0 306293-01	0.060
EB-5-5.0 306293-03	0.021
EB-5-10.0 306293-05	0.032
EB-93-10.0 306293-08	0.024
Method Blank	<0.002

Date of Report: 07/25/13
Date Received: 06/18/13
Project: Crowley RIFS 101.00205.00019, F&BI 306293

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TPH AS GASOLINE USING METHOD NWTPH-Gx

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Gasoline	mg/kg (ppm)	20	90	90	61-153	0

Date of Report: 07/25/13
Date Received: 06/18/13
Project: Crowley RIFS 101.00205.00019, F&BI 306293

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 306244-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	500	<12	114	120	64-133	5

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	500	118	58-147

Date of Report: 07/25/13
Date Received: 06/18/13
Project: Crowley RIFS 101.00205.00019, F&BI 306293

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 306220-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	mg/kg (ppm)	2.5	<0.02	31	26	10-56	18
Chloromethane	mg/kg (ppm)	2.5	<0.026	59	55	10-90	7
Vinyl chloride	mg/kg (ppm)	2.5	<0.016	63	58	10-91	8
Bromomethane	mg/kg (ppm)	2.5	<0.034	90	110	10-110	20
Chloroethane	mg/kg (ppm)	2.5	<0.024	77	73	10-101	5
Trichlorofluoromethane	mg/kg (ppm)	2.5	<0.02	74	72	10-95	3
Acetone	mg/kg (ppm)	12.5	<0.2	92	90	11-141	2
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.026	77	76	11-103	1
Methylene chloride	mg/kg (ppm)	2.5	<0.054	96	90	14-128	6
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2.5	<0.013	100	100	17-134	0
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.024	85	85	13-112	0
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.017	87	88	23-115	1
2,2-Dichloropropane	mg/kg (ppm)	2.5	<0.026	101	104	18-117	3
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.022	89	89	25-120	0
Chloroform	mg/kg (ppm)	2.5	<0.017	89	89	29-117	0
2-Butanone (MEK)	mg/kg (ppm)	12.5	<0.14	94	96	20-133	2
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.016	90	90	22-124	0
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.022	93	98	27-112	5
1,1-Dichloropropene	mg/kg (ppm)	2.5	<0.024	85	86	26-107	1
Carbon tetrachloride	mg/kg (ppm)	2.5	<0.03	100	110	22-115	10
Benzene	mg/kg (ppm)	2.5	<0.014	86	88	26-114	2
Trichloroethene	mg/kg (ppm)	2.5	<0.034	88	89	30-112	1
1,2-Dichloropropane	mg/kg (ppm)	2.5	<0.034	92	95	31-119	3
Bromodichloromethane	mg/kg (ppm)	2.5	<0.024	96	103	31-131	7
Dibromomethane	mg/kg (ppm)	2.5	<0.022	94	97	27-124	3
4-Methyl-2-pentanone	mg/kg (ppm)	12.5	<0.14	102	104	16-147	2
cis-1,3-Dichloropropene	mg/kg (ppm)	2.5	<0.022	106	115	28-137	8
Toluene	mg/kg (ppm)	2.5	<0.017	86	87	34-112	1
trans-1,3-Dichloropropene	mg/kg (ppm)	2.5	<0.015	98	106	30-136	8
1,1,2-Trichloroethane	mg/kg (ppm)	2.5	<0.014	94	96	32-126	2
2-Hexanone	mg/kg (ppm)	12.5	<0.096	100	102	17-147	2
1,3-Dichloropropane	mg/kg (ppm)	2.5	<0.02	93	94	29-125	1
Tetrachloroethene	mg/kg (ppm)	2.5	<0.026	85	86	27-110	1
Dibromochloromethane	mg/kg (ppm)	2.5	<0.026	94	102	32-143	8
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2.5	<0.03	110	117	32-126	6
Chlorobenzene	mg/kg (ppm)	2.5	<0.014	89	89	37-113	0
Ethylbenzene	mg/kg (ppm)	2.5	<0.013	88	89	38-111	1
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	2.5	<0.028	105	113	35-126	7
m,p-Xylene	mg/kg (ppm)	5	<0.03	89	90	38-112	1
o-Xylene	mg/kg (ppm)	2.5	<0.034	89	90	38-113	1
Styrene	mg/kg (ppm)	2.5	<0.022	92	92	38-118	0
Isopropylbenzene	mg/kg (ppm)	2.5	<0.019	90	90	37-114	0
Bromoform	mg/kg (ppm)	2.5	<0.034	96	105	18-155	9
n-Propylbenzene	mg/kg (ppm)	2.5	<0.017	90	92	36-114	2
Bromobenzene	mg/kg (ppm)	2.5	<0.012	89	91	40-115	2
1,3,5-Trimethylbenzene	mg/kg (ppm)	2.5	<0.011	91	92	35-116	1
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	2.5	<0.036	97	101	33-128	4
1,2,3-Trichloropropane	mg/kg (ppm)	2.5	<0.022	92	95	33-123	3
2-Chlorotoluene	mg/kg (ppm)	2.5	<0.016	88	89	39-110	1
4-Chlorotoluene	mg/kg (ppm)	2.5	<0.019	90	91	39-111	1
tert-Butylbenzene	mg/kg (ppm)	2.5	<0.022	91	92	36-116	1
1,2,4-Trimethylbenzene	mg/kg (ppm)	2.5	<0.016	90	91	35-116	1
sec-Butylbenzene	mg/kg (ppm)	2.5	<0.015	91	92	33-118	1
p-Isopropyltoluene	mg/kg (ppm)	2.5	<0.012	91	92	32-119	1
1,3-Dichlorobenzene	mg/kg (ppm)	2.5	<0.02	88	89	38-111	1
1,4-Dichlorobenzene	mg/kg (ppm)	2.5	<0.032	88	88	39-109	0
1,2-Dichlorobenzene	mg/kg (ppm)	2.5	<0.016	87	88	40-111	1
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	2.5	<0.08	95	103	34-134	8
1,2,4-Trichlorobenzene	mg/kg (ppm)	2.5	<0.036	84	84	31-117	0
Hexachlorobutadiene	mg/kg (ppm)	2.5	<0.04	78	80	25-122	3
Naphthalene	mg/kg (ppm)	2.5	<0.024	90	90	39-120	0
1,2,3-Trichlorobenzene	mg/kg (ppm)	2.5	<0.019	80	80	35-117	0

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Dichlorodifluoromethane	mg/kg (ppm)	2.5	43	10-76
Chloromethane	mg/kg (ppm)	2.5	69	34-98
Vinyl chloride	mg/kg (ppm)	2.5	75	42-107
Bromomethane	mg/kg (ppm)	2.5	91	46-113
Chloroethane	mg/kg (ppm)	2.5	87	47-115
Trichlorofluoromethane	mg/kg (ppm)	2.5	90	53-112
Acetone	mg/kg (ppm)	12.5	118	39-147
1,1-Dichloroethene	mg/kg (ppm)	2.5	89	65-110
Methylene chloride	mg/kg (ppm)	2.5	103	62-119
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2.5	107	72-122
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	97	71-113
1,1-Dichloroethane	mg/kg (ppm)	2.5	97	76-109
2,2-Dichloropropane	mg/kg (ppm)	2.5	122	64-151
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	97	77-110
Chloroform	mg/kg (ppm)	2.5	96	78-108
2-Butanone (MEK)	mg/kg (ppm)	12.5	109	60-121
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	96	80-109
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	109	72-116
1,1-Dichloropropene	mg/kg (ppm)	2.5	94	77-108
Carbon tetrachloride	mg/kg (ppm)	2.5	123	67-123
Benzene	mg/kg (ppm)	2.5	95	75-107
Trichloroethene	mg/kg (ppm)	2.5	95	72-107
1,2-Dichloropropane	mg/kg (ppm)	2.5	100	78-111
Bromodichloromethane	mg/kg (ppm)	2.5	110	75-126
Dibromomethane	mg/kg (ppm)	2.5	103	80-111
4-Methyl-2-pentanone	mg/kg (ppm)	12.5	109	80-128
cis-1,3-Dichloropropene	mg/kg (ppm)	2.5	120	71-138
Toluene	mg/kg (ppm)	2.5	94	79-112
trans-1,3-Dichloropropene	mg/kg (ppm)	2.5	110	77-135
1,1,2-Trichloroethane	mg/kg (ppm)	2.5	101	84-115
2-Hexanone	mg/kg (ppm)	12.5	110	71-129
1,3-Dichloropropane	mg/kg (ppm)	2.5	98	82-113
Tetrachloroethene	mg/kg (ppm)	2.5	94	77-110
Dibromochloromethane	mg/kg (ppm)	2.5	111	64-152
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2.5	123 vo	83-116
Chlorobenzene	mg/kg (ppm)	2.5	96	82-113
Ethylbenzene	mg/kg (ppm)	2.5	96	81-114
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	2.5	126 vo	76-125
m,p-Xylene	mg/kg (ppm)	5	98	82-115
o-Xylene	mg/kg (ppm)	2.5	99	81-116
Styrene	mg/kg (ppm)	2.5	100	81-118
Isopropylbenzene	mg/kg (ppm)	2.5	99	81-117
Bromoform	mg/kg (ppm)	2.5	113	50-174
n-Propylbenzene	mg/kg (ppm)	2.5	100	82-116
Bromobenzene	mg/kg (ppm)	2.5	96	82-118
1,3,5-Trimethylbenzene	mg/kg (ppm)	2.5	102	83-120
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	2.5	107	83-125
1,2,3-Trichloropropane	mg/kg (ppm)	2.5	100	79-116
2-Chlorotoluene	mg/kg (ppm)	2.5	97	80-114
4-Chlorotoluene	mg/kg (ppm)	2.5	99	82-114
tert-Butylbenzene	mg/kg (ppm)	2.5	101	82-116
1,2,4-Trimethylbenzene	mg/kg (ppm)	2.5	100	82-116
sec-Butylbenzene	mg/kg (ppm)	2.5	101	81-123
p-Isopropyltoluene	mg/kg (ppm)	2.5	102	82-124
1,3-Dichlorobenzene	mg/kg (ppm)	2.5	98	80-118
1,4-Dichlorobenzene	mg/kg (ppm)	2.5	97	79-117
1,2-Dichlorobenzene	mg/kg (ppm)	2.5	96	80-118
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	2.5	115	71-131
1,2,4-Trichlorobenzene	mg/kg (ppm)	2.5	94	75-122
Hexachlorobutadiene	mg/kg (ppm)	2.5	93	74-130
Naphthalene	mg/kg (ppm)	2.5	100	83-128
1,2,3-Trichlorobenzene	mg/kg (ppm)	2.5	91	80-126

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	ug/L (ppb)	50	111	111	54-149	0
Chloromethane	ug/L (ppb)	50	101	102	67-133	1
Vinyl chloride	ug/L (ppb)	50	102	102	73-132	0
Bromomethane	ug/L (ppb)	50	653 vo	614 vo	69-123	6
Chloroethane	ug/L (ppb)	50	183 vo	184 vo	68-126	1
Trichlorofluoromethane	ug/L (ppb)	50	137 vo	134 vo	70-132	2
Acetone	ug/L (ppb)	250	104	101	44-145	3
1,1-Dichloroethene	ug/L (ppb)	50	105	105	75-119	0
Methylene chloride	ug/L (ppb)	50	100	100	63-132	0
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	106	106	70-122	0
trans-1,2-Dichloroethene	ug/L (ppb)	50	101	102	76-118	1
1,1-Dichloroethane	ug/L (ppb)	50	99	100	80-116	1
2,2-Dichloropropane	ug/L (ppb)	50	129	130	62-141	1
cis-1,2-Dichloroethene	ug/L (ppb)	50	99	98	81-111	1
Chloroform	ug/L (ppb)	50	99	99	81-109	0
2-Butanone (MEK)	ug/L (ppb)	250	103	101	53-140	2
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	99	99	79-109	0
1,1,1-Trichloroethane	ug/L (ppb)	50	117 vo	116	80-116	1
1,1-Dichloropropene	ug/L (ppb)	50	98	98	78-112	0
Carbon tetrachloride	ug/L (ppb)	50	142 vo	145 vo	72-128	2
Benzene	ug/L (ppb)	50	96	96	81-108	0
Trichloroethene	ug/L (ppb)	50	99	98	77-108	1
1,2-Dichloropropane	ug/L (ppb)	50	101	101	82-109	0
Bromodichloromethane	ug/L (ppb)	50	120	121 vo	76-120	1
Dibromomethane	ug/L (ppb)	50	107	106	80-110	1
4-Methyl-2-pentanone	ug/L (ppb)	250	114	111	59-142	3
cis-1,3-Dichloropropene	ug/L (ppb)	50	125	124	76-128	1
Toluene	ug/L (ppb)	50	93	93	83-108	0
trans-1,3-Dichloropropene	ug/L (ppb)	50	111	113	76-128	2
1,1,2-Trichloroethane	ug/L (ppb)	50	101	101	82-110	0
2-Hexanone	ug/L (ppb)	250	107	106	53-145	1
1,3-Dichloropropane	ug/L (ppb)	50	99	99	83-110	0
Tetrachloroethene	ug/L (ppb)	50	94	95	78-109	1
Dibromochloromethane	ug/L (ppb)	50	121	123	63-140	2
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	126 vo	128 vo	85-113	2
Chlorobenzene	ug/L (ppb)	50	94	95	84-108	1
Ethylbenzene	ug/L (ppb)	50	94	94	84-110	0
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	132 vo	133 vo	76-125	1
m,p-Xylene	ug/L (ppb)	100	96	97	84-112	1
o-Xylene	ug/L (ppb)	50	95	95	82-113	0
Styrene	ug/L (ppb)	50	97	97	84-116	0
Isopropylbenzene	ug/L (ppb)	50	95	95	81-122	0
Bromoform	ug/L (ppb)	50	130	133	40-161	2
n-Propylbenzene	ug/L (ppb)	50	96	97	81-115	1
Bromobenzene	ug/L (ppb)	50	96	96	80-113	0
1,3,5-Trimethylbenzene	ug/L (ppb)	50	96	98	83-117	2
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	107	108	79-118	1
1,2,3-Trichloropropane	ug/L (ppb)	50	99	101	74-116	2
2-Chlorotoluene	ug/L (ppb)	50	93	94	79-112	1
4-Chlorotoluene	ug/L (ppb)	50	95	96	81-113	1
tert-Butylbenzene	ug/L (ppb)	50	94	96	81-119	2
1,2,4-Trimethylbenzene	ug/L (ppb)	50	95	97	83-116	2
sec-Butylbenzene	ug/L (ppb)	50	95	96	83-116	1
p-Isopropyltoluene	ug/L (ppb)	50	95	96	82-119	1
1,3-Dichlorobenzene	ug/L (ppb)	50	93	95	83-111	2
1,4-Dichlorobenzene	ug/L (ppb)	50	92	95	82-109	3
1,2-Dichlorobenzene	ug/L (ppb)	50	92	93	83-111	1
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	120	122	62-133	2
1,2,4-Trichlorobenzene	ug/L (ppb)	50	83	84	77-117	1
Hexachlorobutadiene	ug/L (ppb)	50	79	78	74-118	1
Naphthalene	ug/L (ppb)	50	91	93	75-131	2
1,2,3-Trichlorobenzene	ug/L (ppb)	50	79 vo	81 vo	82-115	2

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270D

Laboratory Code: 306244-05 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Phenol	mg/kg (ppm)	1.7	<0.0054	74	76	50-150	3
Bis(2-chloroethyl) ether	mg/kg (ppm)	1.7	<0.0016	78	82	50-150	5
2-Chlorophenol	mg/kg (ppm)	1.7	<0.0062	76	79	50-150	4
1,3-Dichlorobenzene	mg/kg (ppm)	1.7	<0.0026	67	79	50-150	16
1,4-Dichlorobenzene	mg/kg (ppm)	1.7	<0.0024	68	77	50-150	12
1,2-Dichlorobenzene	mg/kg (ppm)	1.7	<0.004	70	79	50-150	12
Benzyl alcohol	mg/kg (ppm)	1.7	0.022	73	72	50-150	1
Bis(2-chloroisopropyl) ether	mg/kg (ppm)	1.7	<0.0016	71	79	50-150	11
2-Methylphenol	mg/kg (ppm)	1.7	<0.0064	79	74	50-150	7
Hexachloroethane	mg/kg (ppm)	1.7	<0.0034	66	76	50-150	14
N-Nitroso-di-n-propylamine	mg/kg (ppm)	1.7	<0.003	79	79	50-150	0
3-Methylphenol + 4-Methylphenol	mg/kg (ppm)	1.7	<0.014	82	77	50-150	6
Nitrobenzene	mg/kg (ppm)	1.7	<0.0026	76	79	50-150	4
Isophorone	mg/kg (ppm)	1.7	<0.0012	73	75	50-150	3
2-Nitrophenol	mg/kg (ppm)	1.7	<0.0082	74	83	50-150	11
2,4-Dimethylphenol	mg/kg (ppm)	1.7	<0.019	62	42 vo	50-150	38 vo
Benzoic acid	mg/kg (ppm)	2.5	<0.055	70	72	50-150	3
Bis(2-chloroethoxy)methane	mg/kg (ppm)	1.7	<0.0014	75	79	50-150	5
2,4-Dichlorophenol	mg/kg (ppm)	1.7	<0.0058	80	80	50-150	0
1,2,4-Trichlorobenzene	mg/kg (ppm)	1.7	<0.0034	72	80	50-150	11
Hexachlorobutadiene	mg/kg (ppm)	1.7	<0.002	70	78	50-150	11
4-Chloroaniline	mg/kg (ppm)	3.3	<0.18	61	66	50-150	8
4-Chloro-3-methylphenol	mg/kg (ppm)	1.7	<0.0044	85	79	50-150	7
2-Methylnaphthalene	mg/kg (ppm)	1.7	<0.001	76	77	50-150	1
Hexachlorocyclopentadiene	mg/kg (ppm)	1.7	<0.0022	67	71	50-150	6
2,4,6-Trichlorophenol	mg/kg (ppm)	1.7	<0.008	79	81	50-150	2
2,4,5-Trichlorophenol	mg/kg (ppm)	1.7	<0.0096	88	87	50-150	1
2-Chloronaphthalene	mg/kg (ppm)	1.7	<0.0014	80	84	50-150	5
2-Nitroaniline	mg/kg (ppm)	1.7	<0.0026	82	84	50-150	2
Dimethyl phthalate	mg/kg (ppm)	1.7	<0.0012	78	81	50-150	4
2,6-Dinitrotoluene	mg/kg (ppm)	1.7	<0.0018	85	88	50-150	3
3-Nitroaniline	mg/kg (ppm)	3.3	<0.0014	58	69	50-150	17
2,4-Dinitrophenol	mg/kg (ppm)	1.7	<0.001	45 vo	46 vo	50-150	2
Dibenzofuran	mg/kg (ppm)	1.7	<0.0016	81	83	50-150	2
2,4-Dinitrotoluene	mg/kg (ppm)	1.7	<0.018	80	84	50-150	5
4-Nitrophenol	mg/kg (ppm)	1.7	<0.004	65	69	50-150	6
Diethyl phthalate	mg/kg (ppm)	1.7	<0.0012	78	82	50-150	5
4-Chlorophenyl phenyl ether	mg/kg (ppm)	1.7	<0.001	81	82	50-150	1
N-Nitrosodiphenylamine	mg/kg (ppm)	1.7	<0.018	79	82	50-150	4
4-Nitroaniline	mg/kg (ppm)	3.3	<0.011	66	79	50-150	18
4,6-Dinitro-2-methylphenol	mg/kg (ppm)	1.7	<0.0016	56	56	50-150	0
4-Bromophenyl phenyl ether	mg/kg (ppm)	1.7	<0.001	81	83	50-150	2
Hexachlorobenzene	mg/kg (ppm)	1.7	<0.0062	80	81	50-150	1
Pentachlorophenol	mg/kg (ppm)	1.7	0.0011	87	84	50-150	4
Carbazole	mg/kg (ppm)	1.7	<0.02	79	82	50-150	4
Di-n-butyl phthalate	mg/kg (ppm)	1.7	<0.0016	79	81	50-150	2
Benzyl butyl phthalate	mg/kg (ppm)	1.7	<0.007	80	84	50-150	5
Bis(2-ethylhexyl) phthalate	mg/kg (ppm)	1.7	<0.0034	86	89	50-150	3
Di-n-octyl phthalate	mg/kg (ppm)	1.7	<0.0024	87	92	50-150	6

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270D

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Phenol	mg/kg (ppm)	1.7	86	90	51-119	5
Bis(2-chloroethyl) ether	mg/kg (ppm)	1.7	95	100	60-112	5
2-Chlorophenol	mg/kg (ppm)	1.7	91	95	59-114	4
1,3-Dichlorobenzene	mg/kg (ppm)	1.7	90	90	62-113	0
1,4-Dichlorobenzene	mg/kg (ppm)	1.7	87	88	61-114	1
1,2-Dichlorobenzene	mg/kg (ppm)	1.7	88	90	61-113	2
Benzyl alcohol	mg/kg (ppm)	1.7	96	102	50-119	6
Bis(2-chloroisopropyl) ether	mg/kg (ppm)	1.7	84	87	59-113	4
2-Methylphenol	mg/kg (ppm)	1.7	88	96	58-115	9
Hexachloroethane	mg/kg (ppm)	1.7	87	87	63-114	0
N-Nitroso-di-n-propylamine	mg/kg (ppm)	1.7	92	97	62-114	5
3-Methylphenol + 4-Methylphenol	mg/kg (ppm)	1.7	95	102	54-120	7
Nitrobenzene	mg/kg (ppm)	1.7	88	90	59-114	2
Isophorone	mg/kg (ppm)	1.7	89	90	61-113	1
2-Nitrophenol	mg/kg (ppm)	1.7	91	94	59-114	3
2,4-Dimethylphenol	mg/kg (ppm)	1.7	84	85	54-107	1
Benzoic acid	mg/kg (ppm)	2.5	123	139	43-150	12
Bis(2-chloroethoxy)methane	mg/kg (ppm)	1.7	89	89	60-114	0
2,4-Dichlorophenol	mg/kg (ppm)	1.7	97	102	57-118	5
1,2,4-Trichlorobenzene	mg/kg (ppm)	1.7	89	90	56-112	1
Hexachlorobutadiene	mg/kg (ppm)	1.7	85	86	60-116	1
4-Chloroaniline	mg/kg (ppm)	3.3	56	64	10-126	13
4-Chloro-3-methylphenol	mg/kg (ppm)	1.7	101	110	59-115	9
2-Methylnaphthalene	mg/kg (ppm)	1.7	90	92	60-115	2
Hexachlorocyclopentadiene	mg/kg (ppm)	1.7	93	97	41-107	4
2,4,6-Trichlorophenol	mg/kg (ppm)	1.7	98	103	47-119	5
2,4,5-Trichlorophenol	mg/kg (ppm)	1.7	103	108	61-121	5
2-Chloronaphthalene	mg/kg (ppm)	1.7	95	97	58-114	2
2-Nitroaniline	mg/kg (ppm)	1.7	99	105	55-119	6
Dimethyl phthalate	mg/kg (ppm)	1.7	94	99	58-116	5
2,6-Dinitrotoluene	mg/kg (ppm)	1.7	100	106	57-119	6
3-Nitroaniline	mg/kg (ppm)	3.3	72	76	10-143	5
2,4-Dinitrophenol	mg/kg (ppm)	1.7	96	109	40-122	13
Dibenzofuran	mg/kg (ppm)	1.7	94	97	56-115	3
2,4-Dinitrotoluene	mg/kg (ppm)	1.7	98	103	53-126	5
4-Nitrophenol	mg/kg (ppm)	1.7	107	117	40-124	9
Diethyl phthalate	mg/kg (ppm)	1.7	94	99	57-116	5
4-Chlorophenyl phenyl ether	mg/kg (ppm)	1.7	95	98	54-119	3
N-Nitrosodiphenylamine	mg/kg (ppm)	1.7	92	95	54-113	3
4-Nitroaniline	mg/kg (ppm)	3.3	92	98	47-109	6
4,6-Dinitro-2-methylphenol	mg/kg (ppm)	1.7	87	97	57-108	11
4-Bromophenyl phenyl ether	mg/kg (ppm)	1.7	94	97	56-116	3
Hexachlorobenzene	mg/kg (ppm)	1.7	94	96	57-115	2
Pentachlorophenol	mg/kg (ppm)	1.7	108	112	45-123	4
Carbazole	mg/kg (ppm)	1.7	93	97	57-116	4
Di-n-butyl phthalate	mg/kg (ppm)	1.7	95	97	56-118	2
Benzyl butyl phthalate	mg/kg (ppm)	1.7	98	100	56-122	2
Bis(2-ethylhexyl) phthalate	mg/kg (ppm)	1.7	101	110	56-125	9
Di-n-octyl phthalate	mg/kg (ppm)	1.7	103	107	58-120	4

Date of Report: 07/25/13
Date Received: 06/18/13
Project: Crowley RIFS 101.00205.00019, F&BI 306293

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270D

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Phenol	mg/kg (ppm)	1.7	84	85	51-119	1
Bis(2-chloroethyl) ether	mg/kg (ppm)	1.7	80	84	60-112	5
2-Chlorophenol	mg/kg (ppm)	1.7	87	89	59-114	2
1,3-Dichlorobenzene	mg/kg (ppm)	1.7	79	84	62-113	6
1,4-Dichlorobenzene	mg/kg (ppm)	1.7	78	83	61-114	6
1,2-Dichlorobenzene	mg/kg (ppm)	1.7	81	84	61-113	4
Benzyl alcohol	mg/kg (ppm)	1.7	93	96	50-119	3
Bis(2-chloroisopropyl) ether	mg/kg (ppm)	1.7	79	84	59-113	6
2-Methylphenol	mg/kg (ppm)	1.7	84	82	58-115	2
Hexachloroethane	mg/kg (ppm)	1.7	80	85	63-114	6
N-Nitroso-di-n-propylamine	mg/kg (ppm)	1.7	97	97	62-114	0
3-Methylphenol + 4-Methylphenol	mg/kg (ppm)	1.7	88	87	54-120	1
Nitrobenzene	mg/kg (ppm)	1.7	83	89	59-114	7
Isophorone	mg/kg (ppm)	1.7	93	96	61-113	3
2-Nitrophenol	mg/kg (ppm)	1.7	94	99	59-114	5
2,4-Dimethylphenol	mg/kg (ppm)	1.7	78	50 vo	54-107	44 vo
Benzoic acid	mg/kg (ppm)	2.5	142	148	43-150	4
Bis(2-chloroethoxy)methane	mg/kg (ppm)	1.7	84	91	60-114	8
2,4-Dichlorophenol	mg/kg (ppm)	1.7	92	96	57-118	4
1,2,4-Trichlorobenzene	mg/kg (ppm)	1.7	81	88	56-112	8
Hexachlorobutadiene	mg/kg (ppm)	1.7	79	85	60-116	7
4-Chloroaniline	mg/kg (ppm)	3.3	68	66	10-126	3
4-Chloro-3-methylphenol	mg/kg (ppm)	1.7	98	97	59-115	1
2-Methylnaphthalene	mg/kg (ppm)	1.7	83	86	60-115	4
Hexachlorocyclopentadiene	mg/kg (ppm)	1.7	100	103	41-107	3
2,4,6-Trichlorophenol	mg/kg (ppm)	1.7	95	97	47-119	2
2,4,5-Trichlorophenol	mg/kg (ppm)	1.7	99	99	61-121	0
2-Chloronaphthalene	mg/kg (ppm)	1.7	85	89	58-114	5
2-Nitroaniline	mg/kg (ppm)	1.7	109	108	55-119	1
Dimethyl phthalate	mg/kg (ppm)	1.7	98	97	58-116	1
2,6-Dinitrotoluene	mg/kg (ppm)	1.7	93	93	57-119	0
3-Nitroaniline	mg/kg (ppm)	3.3	90	90	10-143	0
2,4-Dinitrophenol	mg/kg (ppm)	1.7	110	99	40-122	11
Dibenzofuran	mg/kg (ppm)	1.7	89	92	56-115	3
2,4-Dinitrotoluene	mg/kg (ppm)	1.7	97	95	53-126	2
4-Nitrophenol	mg/kg (ppm)	1.7	98	96	40-124	2
Diethyl phthalate	mg/kg (ppm)	1.7	100	96	57-116	4
4-Chlorophenyl phenyl ether	mg/kg (ppm)	1.7	88	89	54-119	1
N-Nitrosodiphenylamine	mg/kg (ppm)	1.7	90	93	54-113	3
4-Nitroaniline	mg/kg (ppm)	3.3	84	85	47-109	1
4,6-Dinitro-2-methylphenol	mg/kg (ppm)	1.7	104	102	57-108	2
4-Bromophenyl phenyl ether	mg/kg (ppm)	1.7	91	96	56-116	5
Hexachlorobenzene	mg/kg (ppm)	1.7	90	93	57-115	3
Pentachlorophenol	mg/kg (ppm)	1.7	100	104	45-123	4
Carbazole	mg/kg (ppm)	1.7	88	93	57-116	6
Di-n-butyl phthalate	mg/kg (ppm)	1.7	98	108	56-118	10
Benzyl butyl phthalate	mg/kg (ppm)	1.7	102	105	56-122	3
Bis(2-ethylhexyl) phthalate	mg/kg (ppm)	1.7	105	109	56-125	4
Di-n-octyl phthalate	mg/kg (ppm)	1.7	102	108	58-120	6

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Project: Crowley RIFS 101.00205.00019, F&BI 306293

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR PNA'S BY EPA METHOD 8270D SIM

Laboratory Code: 306244-22 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.17	<0.00022	51	53	44-129	4
Acenaphthylene	mg/kg (ppm)	0.17	<0.000091	62	60	52-121	3
Acenaphthene	mg/kg (ppm)	0.17	<0.00014	64	62	51-123	3
Fluorene	mg/kg (ppm)	0.17	<0.00015	72	69	37-137	4
Phenanthrene	mg/kg (ppm)	0.17	0.00066	68	64	45-124	6
Anthracene	mg/kg (ppm)	0.17	<0.000088	72	68	32-124	6
Fluoranthene	mg/kg (ppm)	0.17	<0.00028	83	82	50-125	1
Pyrene	mg/kg (ppm)	0.17	<0.00026	78	79	41-135	1
Benz(a)anthracene	mg/kg (ppm)	0.17	0.00021	69	65	23-144	6
Chrysene	mg/kg (ppm)	0.17	0.00023	79	81	45-122	2
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	<0.00018	67	68	31-144	1
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	<0.00036	71	73	45-130	3
Benzo(a)pyrene	mg/kg (ppm)	0.17	<0.00022	62	62	39-128	0
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	<0.00062	62	63	28-146	2
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	<0.00034	60	59	46-129	2
Benzo(g,h,i)perylene	mg/kg (ppm)	0.17	<0.00034	59	67	37-133	13

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.17	75	84	58-121	11
Acenaphthylene	mg/kg (ppm)	0.17	79	88	54-121	11
Acenaphthene	mg/kg (ppm)	0.17	80	88	54-123	10
Fluorene	mg/kg (ppm)	0.17	84	93	56-127	10
Phenanthrene	mg/kg (ppm)	0.17	83	89	55-122	7
Anthracene	mg/kg (ppm)	0.17	80	85	50-120	6
Fluoranthene	mg/kg (ppm)	0.17	93	101	54-129	8
Pyrene	mg/kg (ppm)	0.17	91	98	53-127	7
Benz(a)anthracene	mg/kg (ppm)	0.17	84	91	51-115	8
Chrysene	mg/kg (ppm)	0.17	90	97	55-129	7
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	86	94	56-123	9
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	79	82	54-131	4
Benzo(a)pyrene	mg/kg (ppm)	0.17	68	76	51-118	11
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	81	90	49-148	11
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	79	88	50-141	11
Benzo(g,h,i)perylene	mg/kg (ppm)	0.17	74	84	52-131	13

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR PNA'S BY EPA METHOD 8270D SIM

Laboratory Code: 306270-10 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.17	0.00023	71	74	44-129	4
Acenaphthylene	mg/kg (ppm)	0.17	<0.000091	76	78	52-121	3
Acenaphthene	mg/kg (ppm)	0.17	<0.00014	75	77	51-123	3
Fluorene	mg/kg (ppm)	0.17	<0.00015	79	81	37-137	2
Phenanthrene	mg/kg (ppm)	0.17	0.00085	76	77	45-124	1
Anthracene	mg/kg (ppm)	0.17	<0.000088	78	78	32-124	0
Fluoranthene	mg/kg (ppm)	0.17	<0.00028	77	78	50-125	1
Pyrene	mg/kg (ppm)	0.17	<0.00026	84	89	41-135	6
Benz(a)anthracene	mg/kg (ppm)	0.17	0.00027	78	79	23-144	1
Chrysene	mg/kg (ppm)	0.17	0.00026	82	83	45-122	1
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	0.00020	72	77	31-144	7
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	<0.00036	70	68	45-130	3
Benzo(a)pyrene	mg/kg (ppm)	0.17	<0.00022	76	77	39-128	1
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	<0.00062	82	80	28-146	2
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	<0.00034	77	76	46-129	1
Benzo(g,h,i)perylene	mg/kg (ppm)	0.17	<0.00034	73	70	37-133	4

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.17	87	82	58-121	6
Acenaphthylene	mg/kg (ppm)	0.17	90	88	54-121	2
Acenaphthene	mg/kg (ppm)	0.17	89	87	54-123	2
Fluorene	mg/kg (ppm)	0.17	90	90	56-127	0
Phenanthrene	mg/kg (ppm)	0.17	90	90	55-122	0
Anthracene	mg/kg (ppm)	0.17	85	86	50-120	1
Fluoranthene	mg/kg (ppm)	0.17	92	95	54-129	3
Pyrene	mg/kg (ppm)	0.17	94	95	53-127	1
Benz(a)anthracene	mg/kg (ppm)	0.17	91	92	51-115	1
Chrysene	mg/kg (ppm)	0.17	93	96	55-129	3
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	88 J	90	56-123	2
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	83 J	82	54-131	1
Benzo(a)pyrene	mg/kg (ppm)	0.17	83 J	82	51-118	1
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	99 J	100	49-148	1
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	90 J	91	50-141	1
Benzo(g,h,i)perylene	mg/kg (ppm)	0.17	85 J	87	52-131	2

Date of Report: 07/25/13
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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS AS AROCLOR 1016/1260 BY EPA METHOD 8082A

Laboratory Code: 306244-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Control Limits	RPD (Limit 20)
Aroclor 1016	mg/kg (ppm)	0.4	<0.033	89	100	50-150	12
Aroclor 1260	mg/kg (ppm)	0.4	<0.033	95	96	50-150	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	Acceptance Criteria
Aroclor 1016	mg/kg (ppm)	0.4	98	70-130
Aroclor 1260	mg/kg (ppm)	0.4	98	70-130

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Project: Crowley RIFS 101.00205.00019, F&BI 306293

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 306270-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Beryllium	mg/kg (ppm)	5	0.0950	104	113	67-138	8
Chromium	mg/kg (ppm)	50	5.51	92	102	57-128	10
Nickel	mg/kg (ppm)	25	3.72	90	101	69-112	12
Copper	mg/kg (ppm)	50	6.12	88	99	57-120	12
Zinc	mg/kg (ppm)	50	14.2	89 b	102 b	55-129	14 b
Arsenic	mg/kg (ppm)	10	1.64	96	109	70-118	13
Selenium	mg/kg (ppm)	5	<0.912	88	99	64-117	12
Silver	mg/kg (ppm)	10	<0.0784	98	106	73-122	8
Cadmium	mg/kg (ppm)	10	<0.204	100	109	83-116	9
Antimony	mg/kg (ppm)	20	0.253	84	91	54-116	8
Barium	mg/kg (ppm)	50	16.2	98 b	111 b	60-141	12 b
Thallium	mg/kg (ppm)	5	0.0660	96	105	68-121	9
Lead	mg/kg (ppm)	50	2.97	100	110	59-148	10

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Beryllium	mg/kg (ppm)	5	110	69-146
Chromium	mg/kg (ppm)	50	103	78-121
Nickel	mg/kg (ppm)	25	105	82-122
Copper	mg/kg (ppm)	50	106	82-119
Zinc	mg/kg (ppm)	50	104	81-120
Arsenic	mg/kg (ppm)	10	110	83-113
Selenium	mg/kg (ppm)	5	107	84-115
Silver	mg/kg (ppm)	10	107	81-116
Cadmium	mg/kg (ppm)	10	108	54-114
Antimony	mg/kg (ppm)	20	106	69-114
Barium	mg/kg (ppm)	50	106	85-116
Thallium	mg/kg (ppm)	5	102	77-123
Lead	mg/kg (ppm)	50	107	80-120

Date of Report: 07/25/13
Date Received: 06/18/13
Project: Crowley RIFS 101.00205.00019, F&BI 306293

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Laboratory Code: 306270-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Mercury	mg/kg (ppm)	0.125	0.043	92	94	62-140	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Mercury	mg/kg (ppm)	0.125	92	63-131

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

306293

SAMPLE CHAIN OF CUSTODY 06-18-13

D03 / V52 / V1

Page # 1 of 1

Send Report To Mike Staton

Company SLR International Corp

Address 2218 20th AVE SE, GB02

City, State, ZIP Bothell, WA 98021

Phone # 425-402-8500 Fax # 425-402-8488

SAMPLERS (signature)

PROJECT NAME/NO. Crowley RIFS 001.00205.00019

PO# (01.00205.0019)

REMARKS
NW TPH-Dx after silica gel cleanup.
HOLD all from color
email COC to mstaton@slrconsulting.com

TURNAROUND TIME
☒ Standard (2 Weeks)
☐ RUSH
Rush charges authorized by

SAMPLE DISPOSAL
☐ Dispose after 30 days
☐ Return samples
☐ Will call with instructions

V= added per Mike Staton GW 7/9/13

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270D	HFS	PAH by 8270D SIM	PCBs by	Pesticides/Herbicides by	Arsenic	Cr+6 by Hach		Notes
EB-5-1.0	01A-J	6/18/13	0900	SOIL	10	X	X		X	X		X	X	X	X			
EB-5-2.5	02A-I		0925															HOLD
EB-5-5.0	03A-J		0955			X	X		X	X		X	X	X	X			
EB-5-7.5	04		1010															HOLD
EB-5-10.0	05		1030			X	X		X	X		X	X	X	X			
EB-5-12.5	06		1050	↓	↓					✓		✓						HOLD
TB-061813	07A,B		1100	WATER	2				X									
EB-93-10.0	08A-J	↓	1130	SOIL	10	X	X		X	X		X	X	X	X			

ANALYSES REQUESTED

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Chris Lee	SLR	6/18/13	1649
Received by:		Nhan Phan	FEBI	6/18/13	1649
Relinquished by:					
Received by:			Samples received at 3 °C		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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July 25, 2013

Mike Staton
SLR International Corp.
22118 20th Ave. SE., G-202
Bothell, WA 98021

Dear Mr. Staton:

Included are the results from the testing of material submitted on June 18, 2013 from the Crowley 8th Ave Terminals, Inc. 101.00205.00019, F&BI 306292 project. There are 64 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michele Costales Poquiz

Michele Costales Poquiz
Chemist

Enclosures
SLR0725R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on June 18, 2013 by Friedman & Bruya, Inc. from the SLR International Corp. Crowley 8th Ave Terminals, Inc. 101.00205.00019, F&BI 306292 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SLR International Corp.
306292-01	EMW-15D-1.0'
306292-02	EMW-15D-2.5'
306292-03	EMW-15D-5.0'
306292-04	EMW-15D-10.0'
306292-05	EMW-15D-12.5'
306292-06	EMW-15D-15.0'
306292-07	EMW-16D-1.0'
306292-08	EMW-16D-5.0'
306292-09	EMW-16D-7.5'
306292-10	EMW-16D-10.0'
306292-11	EMW-16D-12.5'
306292-12	EMW-16D-15.0'
306292-13	EMW-16D-20.0'
306292-14	EMW-16D-25.0'
306292-15	EMW-16D-30.0'
306292-16	EMW-16D-35.0'
306292-17	EMW-16D-40.0'
306292-18	EMW-16D-45.0'
306292-19	Trip Blank

Total Petroluem Hydrocarbons as Gasoline by Method NWTPH-Gx

All quality control requirements were acceptable.

Total Petroluem Hydrocarbons as Diesel and Motor Oil by Method NWTPH-Dx with Silica Gel

All quality control requirements were acceptable.

Volatile Compounds by EPA Method 8260C

The presence of methylene chloride in the samples is likely due to laboratory contamination. The results have been flagged accordingly.

The percent recovery for the laboratory control sample (LCS) and matrix spike duplicate (MSD) exceeded acceptance criteria for the 8260C analysis of several compounds. In addition, the relative percent difference (RPD) for the matrix spike (MS) and MSD exceeded acceptance criteria for bromomethane. These analytes were not identified in the samples, therefore the results are acceptable.

The internal standard associated with several analytes exceeded acceptance criteria for the sample EMW-16D-10.0'. The sample was diluted and reanalyzed. The results for the full strength and the dilution analyses are included.

Semivolatile Organic Compounds by EPA Method 8270D
The samples EMW-15D-1.0', EMW-15D-5.0', EMW-15D-10.0', EMW-16D-1.0', and EMW-16D-5.0' were diluted due to matrix interferences. The reporting limits have been raised accordingly.

The presence of bis(2-ethylhexyl) phthalate in the sample EMW-15D-5.0' is likely due to laboratory contamination. The results have been flagged accordingly.

The internal standard associated with several analytes exceeded acceptance criteria for the sample EMW-16D-10.0'. The sample was diluted and reanalyzed. The results for the full strength and the dilution analyses are included.

The percent recovery for the MS, MSD, LCS, and laboratory control sample duplicate (LCSD), as well as the RPD for the MS/MSD, exceeded acceptance criteria for several compounds. The results have been flagged accordingly.

Semivolatile Organic Compounds by EPA Method 8270D SIM
The samples EMW-15D-1.0', EMW-15D-5.0', EMW-15D-10.0', EMW-15D-15.0', EMW-16D-5.0' were diluted due to matrix interferences. The reporting limits have been raised accordingly.

Polychlorinated Biphenyls as Aroclor 1016/1260 by EPA Method 8082A
The samples EMW-15D-5.0' and EMW-15D-10.0' were diluted due to matrix interferences. The reporting limits have been raised accordingly.

Total Metals by EPA Method 200.8
Copper was identified at a low level in the method blank. The results have been flagged accordingly.

The internal standard associated with copper and zinc exceeded acceptance criteria for the sample EMW-15D-15.0'. In addition, the surrogate recovery exceeded acceptance criteria. The sample was diluted and reanalyzed. The results for the full strength and the dilution analyses are included.

The percent recovery for the MSD exceeded acceptance criteria for cadmium. The results have been flagged accordingly.

Total Mercury by EPA Method 1631E
All quality control requirements were acceptable.

Date of Report: 07/25/13
Date Received: 06/18/13
Project: Crowley 8th Ave Terminals, Inc. 101.00205.00019, F&BI 306292
Date Extracted: 06/20/13
Date Analyzed: 06/20/13

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Gasoline Range	Surrogate (% Recovery) (Limit 58-139)
EMW-16D-1.0' 306292-07	0.29	82
EMW-16D-5.0' 306292-08	<0.20	83
EMW-16D-10.0' 306292-10	<0.20	83
Method Blank 03-1164 MB	<0.20	85

Date of Report: 07/25/13
Date Received: 06/18/13
Project: Crowley 8th Ave Terminals, Inc. 101.00205.00019, F&BI 306292
Date Extracted: 06/21/13
Date Analyzed: 06/22/13 and 06/24/13

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx
Sample Extracts Passed Through a Silica Gel Column Prior to Analysis
Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 53-144)
EMW-15D-1.0' 306292-01	<12	<21	112
EMW-15D-5.0' 306292-03	41	180	124
EMW-15D-10.0' 306292-04	95 x	510	94
EMW-16D-1.0' 306292-07	21 x	61	104
EMW-16D-5.0' 306292-08	470 x	820	ip
EMW-16D-10.0' 306292-10	<12	<21	94
Method Blank 03-1217 MB	<12	<21	98

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-15D-1.0'	Client:	SLR International Corp.
Date Received:	06/18/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	306292-01
Date Analyzed:	06/20/13	Data File:	062034.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	0.10 lc	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-15D-5.0'	Client:	SLR International Corp.
Date Received:	06/18/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	306292-03
Date Analyzed:	06/21/13	Data File:	062035.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	0.094 lc	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-15D-10.0'	Client:	SLR International Corp.
Date Received:	06/18/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	306292-04
Date Analyzed:	06/21/13	Data File:	062036.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	0.087 lc	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-16D-1.0'	Client:	SLR International Corp.
Date Received:	06/18/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	306292-07
Date Analyzed:	06/21/13	Data File:	062037.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	0.096 lc	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-16D-5.0'	Client:	SLR International Corp.
Date Received:	06/18/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	306292-08
Date Analyzed:	06/21/13	Data File:	062038.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	0.099 lc	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-16D-10.0'	Client:	SLR International Corp.
Date Received:	06/18/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	306292-10
Date Analyzed:	06/21/13	Data File:	062039.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	97	50	150
4-Bromofluorobenzene	94	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	0.15 lc	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	03-1119 mb
Date Analyzed:	06/20/13	Data File:	062020.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	0.15 lc	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-15D-1.0'	Client:	SLR International Corp.
Date Received:	06/18/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306292-01 1/2
Date Analyzed:	07/09/13	Data File:	070829.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	71	56	115
Phenol-d6	77	54	113
Nitrobenzene-d5	90	31	164
2-Fluorobiphenyl	83	47	133
2,4,6-Tribromophenol	70	35	141
Terphenyl-d14	92	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.011	2,4,6-Trichlorophenol	<0.016
Bis(2-chloroethyl) ether	<0.0032	2,4,5-Trichlorophenol	<0.019
2-Chlorophenol	<0.012	2-Chloronaphthalene	<0.0028
1,3-Dichlorobenzene	<0.0052	2-Nitroaniline	<0.0052
1,4-Dichlorobenzene	<0.0048	Dimethyl phthalate	<0.0024
1,2-Dichlorobenzene	<0.008	2,6-Dinitrotoluene	<0.0036
Benzyl alcohol	0.010	3-Nitroaniline	<0.035
Bis(2-chloroisopropyl) ether	<0.0032	2,4-Dinitrophenol	<0.028
2-Methylphenol	<0.013	Dibenzofuran	0.0090
Hexachloroethane	<0.0068	2,4-Dinitrotoluene	<0.0032
N-Nitroso-di-n-propylamine	<0.006	4-Nitrophenol	<0.036
3-Methylphenol + 4-Methylphenol	<0.029	Diethyl phthalate	<0.008
Nitrobenzene	<0.0052	4-Chlorophenyl phenyl ether	<0.0032
Isophorone	<0.0024	N-Nitrosodiphenylamine	<0.002
2-Nitrophenol	<0.016	4-Nitroaniline	<0.036
2,4-Dimethylphenol	<0.037	4,6-Dinitro-2-methylphenol	<0.021
Benzoic acid	<0.11	4-Bromophenyl phenyl ether	<0.0032
Bis(2-chloroethoxy)methane	<0.0028	Hexachlorobenzene	<0.002
2,4-Dichlorophenol	<0.012	Pentachlorophenol	<0.012
1,2,4-Trichlorobenzene	<0.0068	Carbazole	0.040
Hexachlorobutadiene	<0.004	Di-n-butyl phthalate	<0.04
4-Chloroaniline	<0.36	Benzyl butyl phthalate	<0.012
4-Chloro-3-methylphenol	<0.0088	Bis(2-ethylhexyl) phthalate	<0.027
2-Methylnaphthalene	0.0052	Di-n-octyl phthalate	<0.0068
Hexachlorocyclopentadiene	<0.0044		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-15D-5.0'	Client:	SLR International Corp.
Date Received:	06/18/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306292-03 1/100
Date Analyzed:	06/28/13	Data File:	062741.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	80 ds	56	115
Phenol-d6	67 ds	54	113
Nitrobenzene-d5	70 ds	31	164
2-Fluorobiphenyl	80 ds	47	133
2,4,6-Tribromophenol	20 ds	35	141
Terphenyl-d14	110 ds	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.54	2,4,6-Trichlorophenol	<0.8
Bis(2-chloroethyl) ether	<0.16	2,4,5-Trichlorophenol	<0.96
2-Chlorophenol	<0.62	2-Chloronaphthalene	<0.14
1,3-Dichlorobenzene	<0.26	2-Nitroaniline	<0.26
1,4-Dichlorobenzene	<0.24	Dimethyl phthalate	<0.12
1,2-Dichlorobenzene	<0.4	2,6-Dinitrotoluene	<0.18
Benzyl alcohol	<0.5	3-Nitroaniline	<1.7
Bis(2-chloroisopropyl) ether	<0.16	2,4-Dinitrophenol	<1.4
2-Methylphenol	<0.64	Dibenzofuran	<0.1
Hexachloroethane	<0.34	2,4-Dinitrotoluene	<0.16
N-Nitroso-di-n-propylamine	<0.3	4-Nitrophenol	<1.8
3-Methylphenol + 4-Methylphenol	<1.4	Diethyl phthalate	<0.4
Nitrobenzene	<0.26	4-Chlorophenyl phenyl ether	<0.16
Isophorone	<0.12	N-Nitrosodiphenylamine	<0.1
2-Nitrophenol	<0.82	4-Nitroaniline	<1.8
2,4-Dimethylphenol	<1.9	4,6-Dinitro-2-methylphenol	<1.1
Benzoic acid	<5.5	4-Bromophenyl phenyl ether	<0.16
Bis(2-chloroethoxy)methane	<0.14	Hexachlorobenzene	<0.1
2,4-Dichlorophenol	<0.58	Pentachlorophenol	<0.62 j
1,2,4-Trichlorobenzene	<0.34	Carbazole	<0.2
Hexachlorobutadiene	<0.2	Di-n-butyl phthalate	<2
4-Chloroaniline	<18	Benzyl butyl phthalate	0.85
4-Chloro-3-methylphenol	<0.44	Bis(2-ethylhexyl) phthalate	5.6 lc
2-Methylnaphthalene	<0.1	Di-n-octyl phthalate	<0.34
Hexachlorocyclopentadiene	<0.22		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-15D-10.0'	Client:	SLR International Corp.
Date Received:	06/18/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306292-04 1/100
Date Analyzed:	06/28/13	Data File:	062742.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	93 ds	56	115
Phenol-d6	73 ds	54	113
Nitrobenzene-d5	90 ds	31	164
2-Fluorobiphenyl	90 ds	47	133
2,4,6-Tribromophenol	0 ds	35	141
Terphenyl-d14	110 ds	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.54	2,4,6-Trichlorophenol	<0.8
Bis(2-chloroethyl) ether	<0.16	2,4,5-Trichlorophenol	<0.96
2-Chlorophenol	<0.62	2-Chloronaphthalene	<0.14
1,3-Dichlorobenzene	<0.26	2-Nitroaniline	<0.26
1,4-Dichlorobenzene	<0.24	Dimethyl phthalate	<0.12
1,2-Dichlorobenzene	<0.4	2,6-Dinitrotoluene	<0.18
Benzyl alcohol	<0.5	3-Nitroaniline	<1.7
Bis(2-chloroisopropyl) ether	<0.16	2,4-Dinitrophenol	<1.4
2-Methylphenol	<0.64	Dibenzofuran	0.11
Hexachloroethane	<0.34	2,4-Dinitrotoluene	<0.16
N-Nitroso-di-n-propylamine	<0.3	4-Nitrophenol	<1.8
3-Methylphenol + 4-Methylphenol	<1.4	Diethyl phthalate	<0.4
Nitrobenzene	<0.26	4-Chlorophenyl phenyl ether	<0.16
Isophorone	<0.12	N-Nitrosodiphenylamine	<0.1
2-Nitrophenol	<0.82	4-Nitroaniline	<1.8
2,4-Dimethylphenol	<1.9	4,6-Dinitro-2-methylphenol	<1.1
Benzoic acid	<5.5	4-Bromophenyl phenyl ether	<0.16
Bis(2-chloroethoxy)methane	<0.14	Hexachlorobenzene	<0.1
2,4-Dichlorophenol	<0.58	Pentachlorophenol	<0.62 j
1,2,4-Trichlorobenzene	<0.34	Carbazole	<0.2
Hexachlorobutadiene	<0.2	Di-n-butyl phthalate	<2
4-Chloroaniline	<18	Benzyl butyl phthalate	<0.58
4-Chloro-3-methylphenol	<0.44	Bis(2-ethylhexyl) phthalate	<1.3
2-Methylnaphthalene	<0.1	Di-n-octyl phthalate	<0.34
Hexachlorocyclopentadiene	<0.22		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-16D-1.0'	Client:	SLR International Corp.
Date Received:	06/18/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306292-07 1/20
Date Analyzed:	06/28/13	Data File:	062734.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	29 ds	56	115
Phenol-d6	29 ds	54	113
Nitrobenzene-d5	36 ds	31	164
2-Fluorobiphenyl	41 ds	47	133
2,4,6-Tribromophenol	7 ds	35	141
Terphenyl-d14	47 ds	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.11	2,4,6-Trichlorophenol	<0.16
Bis(2-chloroethyl) ether	<0.032	2,4,5-Trichlorophenol	<0.19
2-Chlorophenol	<0.12	2-Chloronaphthalene	<0.028
1,3-Dichlorobenzene	<0.052	2-Nitroaniline	<0.052
1,4-Dichlorobenzene	<0.048	Dimethyl phthalate	<0.024
1,2-Dichlorobenzene	<0.08	2,6-Dinitrotoluene	<0.036
Benzyl alcohol	<0.1	3-Nitroaniline	<0.35
Bis(2-chloroisopropyl) ether	<0.032	2,4-Dinitrophenol	<0.28
2-Methylphenol	<0.13	Dibenzofuran	0.22
Hexachloroethane	<0.068	2,4-Dinitrotoluene	<0.032
N-Nitroso-di-n-propylamine	<0.06	4-Nitrophenol	<0.36
3-Methylphenol + 4-Methylphenol	<0.29	Diethyl phthalate	<0.08
Nitrobenzene	<0.052	4-Chlorophenyl phenyl ether	<0.032
Isophorone	<0.024	N-Nitrosodiphenylamine	<0.02
2-Nitrophenol	<0.16	4-Nitroaniline	<0.36
2,4-Dimethylphenol	<0.37	4,6-Dinitro-2-methylphenol	<0.21
Benzoic acid	<1.1	4-Bromophenyl phenyl ether	<0.032
Bis(2-chloroethoxy)methane	<0.028	Hexachlorobenzene	<0.02
2,4-Dichlorophenol	<0.12	Pentachlorophenol	<0.12 j
1,2,4-Trichlorobenzene	<0.068	Carbazole	1.0
Hexachlorobutadiene	<0.04	Di-n-butyl phthalate	<0.4
4-Chloroaniline	<3.6	Benzyl butyl phthalate	<0.12
4-Chloro-3-methylphenol	<0.088	Bis(2-ethylhexyl) phthalate	<0.27
2-Methylnaphthalene	0.054	Di-n-octyl phthalate	<0.068
Hexachlorocyclopentadiene	<0.044		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-16D-5.0'	Client:	SLR International Corp.
Date Received:	06/18/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306292-08 1/10
Date Analyzed:	06/28/13	Data File:	062737.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	71 ds	56	115
Phenol-d6	69 ds	54	113
Nitrobenzene-d5	76 ds	31	164
2-Fluorobiphenyl	84 ds	47	133
2,4,6-Tribromophenol	63 ds	35	141
Terphenyl-d14	98 ds	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.054	2,4,6-Trichlorophenol	<0.08
Bis(2-chloroethyl) ether	<0.016	2,4,5-Trichlorophenol	<0.096
2-Chlorophenol	<0.062	2-Chloronaphthalene	<0.014
1,3-Dichlorobenzene	<0.026	2-Nitroaniline	<0.026
1,4-Dichlorobenzene	<0.024	Dimethyl phthalate	<0.012
1,2-Dichlorobenzene	<0.04	2,6-Dinitrotoluene	<0.018
Benzyl alcohol	<0.05	3-Nitroaniline	<0.17
Bis(2-chloroisopropyl) ether	<0.016	2,4-Dinitrophenol	<0.14
2-Methylphenol	<0.064	Dibenzofuran	<0.01
Hexachloroethane	<0.034	2,4-Dinitrotoluene	<0.016
N-Nitroso-di-n-propylamine	<0.03	4-Nitrophenol	<0.18
3-Methylphenol + 4-Methylphenol	<0.14	Diethyl phthalate	<0.04
Nitrobenzene	<0.026	4-Chlorophenyl phenyl ether	<0.016
Isophorone	<0.012	N-Nitrosodiphenylamine	<0.01
2-Nitrophenol	<0.082	4-Nitroaniline	<0.18
2,4-Dimethylphenol	<0.19	4,6-Dinitro-2-methylphenol	<0.11
Benzoic acid	<0.55	4-Bromophenyl phenyl ether	<0.016
Bis(2-chloroethoxy)methane	<0.014	Hexachlorobenzene	<0.01
2,4-Dichlorophenol	<0.058	Pentachlorophenol	<0.062 j
1,2,4-Trichlorobenzene	<0.034	Carbazole	<0.02
Hexachlorobutadiene	<0.02	Di-n-butyl phthalate	<0.2
4-Chloroaniline	<1.8	Benzyl butyl phthalate	<0.058
4-Chloro-3-methylphenol	<0.044	Bis(2-ethylhexyl) phthalate	<0.13
2-Methylnaphthalene	<0.01	Di-n-octyl phthalate	<0.034
Hexachlorocyclopentadiene	<0.022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-16D-10.0'	Client:	SLR International Corp.
Date Received:	06/18/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306292-10
Date Analyzed:	06/28/13	Data File:	062729.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	72	56	115
Phenol-d6	79	54	113
Nitrobenzene-d5	74	31	164
2-Fluorobiphenyl	75	47	133
2,4,6-Tribromophenol	91	35	141
Terphenyl-d14	92	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	0.0074	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014
2-Methylphenol	<0.0064	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001 J
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018 J
2,4-Dimethylphenol	<0.019	4,6-Dinitro-2-methylphenol	<0.011J
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016 J
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001 J
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062 J j
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002 J
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02 J
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	<0.013
2-Methylnaphthalene	0.0020	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-16D-10.0'	Client:	SLR International Corp.
Date Received:	06/18/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306292-10 1/10
Date Analyzed:	07/09/13	Data File:	070830.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	72 ds	56	115
Phenol-d6	72 ds	54	113
Nitrobenzene-d5	66 ds	31	164
2-Fluorobiphenyl	69 ds	47	133
2,4,6-Tribromophenol	79 ds	35	141
Terphenyl-d14	84 ds	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.054	2,4,6-Trichlorophenol	<0.08
Bis(2-chloroethyl) ether	<0.016	2,4,5-Trichlorophenol	<0.096
2-Chlorophenol	<0.062	2-Chloronaphthalene	<0.014
1,3-Dichlorobenzene	<0.026	2-Nitroaniline	<0.026
1,4-Dichlorobenzene	<0.024	Dimethyl phthalate	<0.012
1,2-Dichlorobenzene	<0.04	2,6-Dinitrotoluene	<0.018
Benzyl alcohol	<0.05	3-Nitroaniline	<0.17
Bis(2-chloroisopropyl) ether	<0.016	2,4-Dinitrophenol	<0.14
2-Methylphenol	<0.064	Dibenzofuran	<0.01
Hexachloroethane	<0.034	2,4-Dinitrotoluene	<0.016
N-Nitroso-di-n-propylamine	<0.03	4-Nitrophenol	<0.18
3-Methylphenol + 4-Methylphenol	<0.14	Diethyl phthalate	<0.04
Nitrobenzene	<0.026	4-Chlorophenyl phenyl ether	<0.016
Isophorone	<0.012	N-Nitrosodiphenylamine	<0.01
2-Nitrophenol	<0.082	4-Nitroaniline	<0.18
2,4-Dimethylphenol	<0.19	4,6-Dinitro-2-methylphenol	<0.11
Benzoic acid	<0.55	4-Bromophenyl phenyl ether	<0.016
Bis(2-chloroethoxy)methane	<0.014	Hexachlorobenzene	<0.01
2,4-Dichlorophenol	<0.058	Pentachlorophenol	<0.062
1,2,4-Trichlorobenzene	<0.034	Carbazole	<0.02
Hexachlorobutadiene	<0.02	Di-n-butyl phthalate	<0.2
4-Chloroaniline	<1.8	Benzyl butyl phthalate	<0.058
4-Chloro-3-methylphenol	<0.044	Bis(2-ethylhexyl) phthalate	<0.13
2-Methylnaphthalene	<0.01	Di-n-octyl phthalate	<0.034
Hexachlorocyclopentadiene	<0.022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	03-1238 mb
Date Analyzed:	06/26/13	Data File:	062610.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	89	56	115
Phenol-d6	94	54	113
Nitrobenzene-d5	99	31	164
2-Fluorobiphenyl	97	47	133
2,4,6-Tribromophenol	103	35	141
Terphenyl-d14	106	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	<0.005	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014
2-Methylphenol	<0.0064	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	<0.013
2-Methylnaphthalene	<0.001	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	03-1240 mb
Date Analyzed:	07/05/13	Data File:	070506.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	90	56	115
Phenol-d6	94	54	113
Nitrobenzene-d5	98	31	164
2-Fluorobiphenyl	95	47	133
2,4,6-Tribromophenol	97	35	141
Terphenyl-d14	112	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	<0.005 j	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014 j
2-Methylphenol	<0.0064	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062 j
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	<0.013
2-Methylnaphthalene	<0.001	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-15D-1.0'	Client:	SLR International Corp.
Date Received:	06/18/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306292-01
Date Analyzed:	06/27/13	Data File:	062715.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	79	50	150
Benzo(a)anthracene-d12	94	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.0015
Acenaphthylene	0.0013
Acenaphthene	0.0037
Fluorene	0.0030
Phenanthrene	0.072 ve
Anthracene	0.019
Fluoranthene	0.15 ve
Pyrene	0.17 ve
Benz(a)anthracene	0.064
Chrysene	0.065
Benzo(a)pyrene	0.063
Benzo(b)fluoranthene	0.075 ve
Benzo(k)fluoranthene	0.020
Indeno(1,2,3-cd)pyrene	0.051
Dibenz(a,h)anthracene	0.0086
Benzo(g,h,i)perylene	0.052

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-15D-1.0'	Client:	SLR International Corp.
Date Received:	06/18/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306292-01 1/10
Date Analyzed:	06/28/13	Data File:	062829.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	235 ds	50	150
Benzo(a)anthracene-d12	80 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.0022
Acenaphthylene	<0.00091
Acenaphthene	0.0041
Fluorene	0.0036
Phenanthrene	0.080
Anthracene	0.022
Fluoranthene	0.17
Pyrene	0.18
Benz(a)anthracene	0.063
Chrysene	0.071
Benzo(a)pyrene	0.070
Benzo(b)fluoranthene	0.074
Benzo(k)fluoranthene	0.031
Indeno(1,2,3-cd)pyrene	0.051
Dibenz(a,h)anthracene	0.0067
Benzo(g,h,i)perylene	0.057

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-15D-5.0'	Client:	SLR International Corp.
Date Received:	06/18/13	Project:	Crowley 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306292-03 1/100
Date Analyzed:	07/05/13	Data File:	070517.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	217 ds	50	150
Benzo(a)anthracene-d12	87 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.022
Acenaphthylene	0.014
Acenaphthene	<0.014
Fluorene	<0.015
Phenanthrene	0.19
Anthracene	0.030
Fluoranthene	0.18
Pyrene	0.26
Benz(a)anthracene	0.13
Chrysene	0.18
Benzo(a)pyrene	0.12
Benzo(b)fluoranthene	0.13
Benzo(k)fluoranthene	0.041
Indeno(1,2,3-cd)pyrene	0.092
Dibenz(a,h)anthracene	<0.034
Benzo(g,h,i)perylene	0.11

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-15D-10.0'	Client:	SLR International Corp.
Date Received:	06/18/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306292-04 1/100
Date Analyzed:	06/28/13	Data File:	062813.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	535 ds	50	150
Benzo(a)anthracene-d12	225 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.068
Acenaphthene	0.31
Fluorene	0.30
Phenanthrene	4.2
Anthracene	1.5
Fluoranthene	6.3
Pyrene	6.2
Benz(a)anthracene	2.5
Chrysene	2.9
Benzo(a)pyrene	2.1
Benzo(b)fluoranthene	2.6
Benzo(k)fluoranthene	0.82
Indeno(1,2,3-cd)pyrene	1.3
Dibenz(a,h)anthracene	0.25
Benzo(g,h,i)perylene	1.3

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-15D-15.0'	Client:	SLR International Corp.
Date Received:	06/18/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306292-06 1/500
Date Analyzed:	07/05/13	Data File:	070530.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	2435 ds	50	150
Benzo(a)anthracene-d12	205 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.11
Acenaphthene	0.19
Fluorene	<0.075
Phenanthrene	0.42
Anthracene	0.21
Fluoranthene	1.5
Pyrene	1.4
Benz(a)anthracene	0.61
Chrysene	0.82
Benzo(a)pyrene	0.48
Benzo(b)fluoranthene	0.67
Benzo(k)fluoranthene	0.24
Indeno(1,2,3-cd)pyrene	0.37
Dibenz(a,h)anthracene	<0.17
Benzo(g,h,i)perylene	0.30

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-16D-1.0'	Client:	SLR International Corp.
Date Received:	06/18/13	Project:	Crowley 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306292-07
Date Analyzed:	07/05/13	Data File:	070516.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	87 ds	50	150
Benzo(a)anthracene-d12	90 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.0024
Acenaphthylene	0.0040
Acenaphthene	0.0064
Fluorene	0.0074
Phenanthrene	0.099
Anthracene	0.025
Fluoranthene	0.21
Pyrene	0.26
Benz(a)anthracene	0.15
Chrysene	0.18
Benzo(a)pyrene	0.13
Benzo(b)fluoranthene	0.17
Benzo(k)fluoranthene	0.055
Indeno(1,2,3-cd)pyrene	0.085
Dibenz(a,h)anthracene	0.022
Benzo(g,h,i)perylene	0.077

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-16D-5.0'	Client:	SLR International Corp.
Date Received:	06/18/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306292-08 1/10
Date Analyzed:	06/28/13	Data File:	062816.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	156 ds	50	150
Benzo(a)anthracene-d12	84 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.0022
Acenaphthylene	0.0017
Acenaphthene	0.0037
Fluorene	0.0045
Phenanthrene	0.079
Anthracene	0.023
Fluoranthene	0.28
Pyrene	0.25
Benz(a)anthracene	0.16
Chrysene	0.16
Benzo(a)pyrene	0.12
Benzo(b)fluoranthene	0.19
Benzo(k)fluoranthene	0.046
Indeno(1,2,3-cd)pyrene	0.072
Dibenz(a,h)anthracene	0.018
Benzo(g,h,i)perylene	0.065

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-16D-10.0'	Client:	SLR International Corp.
Date Received:	06/18/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306292-10
Date Analyzed:	06/28/13	Data File:	062819.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	61	50	150
Benzo(a)anthracene-d12	72	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.00056
Acenaphthylene	<0.000091
Acenaphthene	<0.00014
Fluorene	<0.00015
Phenanthrene	0.0031
Anthracene	0.00015
Fluoranthene	0.00081
Pyrene	0.0012
Benz(a)anthracene	0.00055
Chrysene	0.0010
Benzo(a)pyrene	0.00043
Benzo(b)fluoranthene	0.00055
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	<0.00062
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	0.00037

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-16D-15.0'	Client:	SLR International Corp.
Date Received:	06/18/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306292-12
Date Analyzed:	06/27/13	Data File:	062707.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	81	50	150
Benzo(a)anthracene-d12	90	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.00022
Benz(a)anthracene	0.00029
Benzo(a)pyrene	<0.00022

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	03-1237 mb
Date Analyzed:	06/27/13	Data File:	062706.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	91	50	150
Benzo(a)anthracene-d12	91	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.00022
Acenaphthylene	<0.000091
Acenaphthene	<0.00014
Fluorene	<0.00015
Phenanthrene	<0.00032
Anthracene	<0.000088
Fluoranthene	<0.00028
Pyrene	<0.00026
Benz(a)anthracene	<0.00018
Chrysene	<0.00019
Benzo(a)pyrene	<0.00022
Benzo(b)fluoranthene	<0.00018
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	<0.00062
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	<0.00034

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	03-1239 mb
Date Analyzed:	07/05/13	Data File:	070514.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	82	50	150
Benzo(a)anthracene-d12	98	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.00022
Acenaphthylene	<0.000091
Acenaphthene	<0.00014
Fluorene	<0.00015
Phenanthrene	<0.00032
Anthracene	<0.000088
Fluoranthene	<0.00028
Pyrene	<0.00026
Benz(a)anthracene	<0.00018
Chrysene	<0.00019
Benzo(a)pyrene	<0.00022
Benzo(b)fluoranthene	<0.00018
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	<0.00062
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	<0.00034

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-15D-1.0'	Client:	SLR International Corp.
Date Received:	06/18/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/26/13	Lab ID:	306292-01
Date Analyzed:	07/12/13	Data File:	68.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	98	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-15D-5.0'	Client:	SLR International Corp.
Date Received:	06/18/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/26/13	Lab ID:	306292-03 1/5
Date Analyzed:	07/09/13	Data File:	44.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	30 ds	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.17
Aroclor 1232	<0.17
Aroclor 1016	<0.17
Aroclor 1242	<0.17
Aroclor 1248	<0.17
Aroclor 1254	<0.17
Aroclor 1260	<0.17

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-15D-10.0'	Client:	SLR International Corp.
Date Received:	06/18/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/26/13	Lab ID:	306292-04 1/5
Date Analyzed:	07/08/13	Data File:	16.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	63 ds	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.17
Aroclor 1232	<0.17
Aroclor 1016	<0.17
Aroclor 1242	<0.17
Aroclor 1248	<0.17
Aroclor 1254	<0.17
Aroclor 1260	<0.17

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-16D-1.0'	Client:	SLR International Corp.
Date Received:	06/18/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/26/13	Lab ID:	306292-07
Date Analyzed:	07/12/13	Data File:	70.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	88	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-16D-5.0'	Client:	SLR International Corp.
Date Received:	06/18/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/26/13	Lab ID:	306292-08
Date Analyzed:	07/12/13	Data File:	74.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	94	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-16D-10.0'	Client:	SLR International Corp.
Date Received:	06/18/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/26/13	Lab ID:	306292-10
Date Analyzed:	07/08/13	Data File:	10.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	77	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley 101.00205.00019
Date Extracted:	06/26/13	Lab ID:	03-1246 mb
Date Analyzed:	07/03/13	Data File:	10.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	81	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-15D-1.0'	Client:	SLR International Corp.
Date Received:	06/18/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/28/13	Lab ID:	306292-01
Date Analyzed:	06/28/13	Data File:	306292-01.085
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	110	60	125
Indium	93	60	125
Holmium	98	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.183
Chromium	15.9
Nickel	24.2
Copper	16.0 fb
Zinc	35.7
Arsenic	10.3
Selenium	<0.912
Silver	<0.0784 j
Cadmium	0.241
Antimony	3.37
Barium	49.8
Thallium	0.0548
Lead	10.7

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-15D-5.0'	Client:	SLR International Corp.
Date Received:	06/18/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/28/13	Lab ID:	306292-03
Date Analyzed:	06/28/13	Data File:	306292-03.086
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	108	60	125
Indium	96	60	125
Holmium	100	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.159
Chromium	17.6
Nickel	22.5
Copper	29.8 fb
Zinc	150
Arsenic	28.2
Selenium	<0.912
Silver	<0.0784 j
Cadmium	0.397
Antimony	13.5
Barium	66.8
Thallium	<0.0434 j
Lead	81.8

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-15D-10.0'	Client:	SLR International Corp.
Date Received:	06/18/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/28/13	Lab ID:	306292-04
Date Analyzed:	06/28/13	Data File:	306292-04.087
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	117	60	125
Indium	104	60	125
Holmium	106	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.234
Chromium	26.5
Nickel	23.4
Copper	99.7 fb
Zinc	325
Arsenic	68.4
Selenium	<0.912
Silver	0.225
Cadmium	0.579
Antimony	60.0
Barium	70.6
Thallium	0.0787
Lead	141

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-15D-15.0'	Client:	SLR International Corp.
Date Received:	06/18/13	Project:	Crowley 101.00205.00019
Date Extracted:	07/09/13	Lab ID:	306292-06
Date Analyzed:	07/11/13	Data File:	306292-06.057
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	128 vo	60	125
Indium	98	60	125
Holmium	97	60	125

Analyte:	Concentration mg/kg (ppm)
Copper	93.2 J
Zinc	356 J
Arsenic	108
Silver	0.280
Antimony	52.0
Barium	42.8
Thallium	<0.0440 j
Lead	133

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-15D-15.0'	Client:	SLR International Corp.
Date Received:	06/18/13	Project:	Crowley 101.00205.00019
Date Extracted:	07/09/13	Lab ID:	306292-06 x10
Date Analyzed:	07/11/13	Data File:	306292-06 x10.061
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	97	60	125
Indium	90	60	125
Holmium	88	60	125

Analyte:	Concentration mg/kg (ppm)
Copper	126
Zinc	486
Arsenic	125
Silver	<0.790 j
Antimony	59.4
Barium	49.2
Thallium	<0.440 j
Lead	148

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-16D-1.0'	Client:	SLR International Corp.
Date Received:	06/18/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/28/13	Lab ID:	306292-07
Date Analyzed:	06/28/13	Data File:	306292-07.088
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	116	60	125
Indium	103	60	125
Holmium	108	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.152
Chromium	12.7
Nickel	18.8
Copper	33.7 fb
Zinc	103
Arsenic	24.3
Selenium	<0.912
Silver	<0.0784 j
Cadmium	0.288
Antimony	12.4
Barium	41.2
Thallium	0.0484
Lead	26.3

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-16D-5.0'	Client:	SLR International Corp.
Date Received:	06/18/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/28/13	Lab ID:	306292-08
Date Analyzed:	06/28/13	Data File:	306292-08.090
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	112	60	125
Indium	102	60	125
Holmium	108	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.134
Chromium	14.3
Nickel	43.8
Copper	49.7 fb
Zinc	114
Arsenic	18.2
Selenium	<0.912
Silver	0.0989
Cadmium	0.229
Antimony	7.93
Barium	32.2
Thallium	0.0598
Lead	21.8

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-16D-10.0'	Client:	SLR International Corp.
Date Received:	06/18/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/28/13	Lab ID:	306292-10
Date Analyzed:	06/28/13	Data File:	306292-10.091
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	111	60	125
Indium	103	60	125
Holmium	113	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.155
Chromium	10.9
Nickel	6.84
Copper	14.1
Zinc	19.9
Arsenic	2.14
Selenium	<0.912
Silver	<0.0784 j
Cadmium	<0.204 j
Antimony	0.469
Barium	29.9
Thallium	<0.0434 j
Lead	2.16

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley 101.00205.00019
Date Extracted:	06/28/13	Lab ID:	I3-385 mb
Date Analyzed:	06/28/13	Data File:	I3-385 mb.069
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	102	60	125
Indium	101	60	125
Holmium	107	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	<0.086
Chromium	<0.47
Nickel	<0.206
Copper	<0.600 j
Zinc	<0.97
Arsenic	<0.422
Selenium	<0.912
Silver	<0.0784 j
Cadmium	<0.204 j
Antimony	<0.106
Barium	<0.0524 j
Thallium	<0.0434 j
Lead	<0.0496 j

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley 101.00205.00019
Date Extracted:	07/09/13	Lab ID:	I3-408 mb
Date Analyzed:	07/11/13	Data File:	I3-408 mb.060
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	102	60	125
Indium	93	60	125
Holmium	92	60	125

Analyte:	Concentration mg/kg (ppm)
Copper	<0.072
Zinc	<0.98 j
Arsenic	<0.42
Silver	<0.079 j
Antimony	<0.106 j
Barium	<0.052 j
Thallium	<0.044 j
Lead	<0.050 j

Date of Report: 07/25/13
Date Received: 06/18/13
Project: Crowley 8th Ave Terminals, Inc. 101.00205.00019, F&BI 306292
Date Extracted: 06/28/13 and 07/01/13
Date Analyzed: 06/28/13 and 07/03/13

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Total Mercury
EMW-15D-1.0' 306292-01	0.025
EMW-15D-5.0' 306292-03 1/5	0.25
EMW-15D-10.0' 306292-04	0.18
EMW-15D-15.0' 306292-06	0.069
EMW-16D-1.0' 306292-07	0.044
EMW-16D-5.0' 306292-08	0.036
EMW-16D-10.0' 306292-10	0.025
Method Blank	<0.002
Method Blank	<0.002

Date of Report: 07/25/13
Date Received: 06/18/13
Project: Crowley 8th Ave Terminals, Inc. 101.00205.00019, F&BI 306292

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TPH AS GASOLINE USING METHOD NWTPH-Gx

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Gasoline	mg/kg (ppm)	20	90	90	61-153	0

Date of Report: 07/25/13
Date Received: 06/18/13
Project: Crowley 8th Ave Terminals, Inc. 101.00205.00019, F&BI 306292

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 306292-03 (Matrix Spike) Silica Gel

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	500	150	79	85	64-133	7

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	500	99	58-147

Date of Report: 07/25/13
Date Received: 06/18/13
Project: Crowley 8th Ave Terminals, Inc. 101.00205.00019, F&BI 306292

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 306191-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	mg/kg (ppm)	2.5	<0.02	29	30	10-56	3
Chloromethane	mg/kg (ppm)	2.5	<0.026	58	60	10-90	3
Vinyl chloride	mg/kg (ppm)	2.5	<0.016	62	64	10-91	3
Bromomethane	mg/kg (ppm)	2.5	<0.034	77	111 vo	10-110	36 vo
Chloroethane	mg/kg (ppm)	2.5	<0.024	81	86	10-101	6
Trichlorofluoromethane	mg/kg (ppm)	2.5	<0.02	76	80	10-95	5
Acetone	mg/kg (ppm)	12.5	<0.2	106	101	11-141	5
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.026	78	77	11-103	1
Methylene chloride	mg/kg (ppm)	2.5	0.10	95	95	14-128	0
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2.5	<0.013	101	103	17-134	2
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.024	88	89	13-112	1
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.017	89	91	23-115	2
2,2-Dichloropropane	mg/kg (ppm)	2.5	<0.026	106	117	18-117	10
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.022	91	90	25-120	1
Chloroform	mg/kg (ppm)	2.5	<0.017	90	90	29-117	0
2-Butanone (MEK)	mg/kg (ppm)	12.5	<0.14	99	94	20-133	5
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.016	91	91	22-124	0
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.022	95	100	27-112	5
1,1-Dichloropropene	mg/kg (ppm)	2.5	<0.024	87	88	26-107	1
Carbon tetrachloride	mg/kg (ppm)	2.5	<0.03	100	108	22-115	8
Benzene	mg/kg (ppm)	2.5	<0.014	89	88	26-114	1
Trichloroethene	mg/kg (ppm)	2.5	<0.034	91	90	30-112	1
1,2-Dichloropropane	mg/kg (ppm)	2.5	<0.034	93	93	31-119	0
Bromodichloromethane	mg/kg (ppm)	2.5	<0.024	96	99	31-131	3
Dibromomethane	mg/kg (ppm)	2.5	<0.022	95	95	27-124	0
4-Methyl-2-pentanone	mg/kg (ppm)	12.5	<0.14	103	100	16-147	3
cis-1,3-Dichloropropene	mg/kg (ppm)	2.5	<0.022	106	110	28-137	4
Toluene	mg/kg (ppm)	2.5	<0.017	90	88	34-112	2
trans-1,3-Dichloropropene	mg/kg (ppm)	2.5	<0.015	98	101	30-136	3
1,1,2-Trichloroethane	mg/kg (ppm)	2.5	<0.014	94	92	32-126	2
2-Hexanone	mg/kg (ppm)	12.5	<0.096	102	98	17-147	4
1,3-Dichloropropane	mg/kg (ppm)	2.5	<0.02	94	91	29-125	3
Tetrachloroethene	mg/kg (ppm)	2.5	<0.026	90	89	27-110	1
Dibromochloromethane	mg/kg (ppm)	2.5	<0.026	93	96	32-143	3
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2.5	<0.03	109	110	32-126	1
Chlorobenzene	mg/kg (ppm)	2.5	<0.014	91	90	37-113	1
Ethylbenzene	mg/kg (ppm)	2.5	<0.013	92	90	38-111	2
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	2.5	<0.028	106	111	35-126	5
m,p-Xylene	mg/kg (ppm)	5	<0.03	93	92	38-112	1
o-Xylene	mg/kg (ppm)	2.5	<0.034	93	92	38-113	1
Styrene	mg/kg (ppm)	2.5	<0.022	94	93	38-118	1
Isopropylbenzene	mg/kg (ppm)	2.5	<0.019	94	93	37-114	1
Bromoform	mg/kg (ppm)	2.5	<0.034	96	99	18-155	3
n-Propylbenzene	mg/kg (ppm)	2.5	<0.017	94	92	36-114	2
Bromobenzene	mg/kg (ppm)	2.5	<0.012	91	89	40-115	2
1,3,5-Trimethylbenzene	mg/kg (ppm)	2.5	<0.011	97	95	35-116	2
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	2.5	<0.036	98	98	33-128	0
1,2,3-Trichloropropane	mg/kg (ppm)	2.5	<0.022	93	92	33-123	1
2-Chlorotoluene	mg/kg (ppm)	2.5	<0.016	91	90	39-110	1
4-Chlorotoluene	mg/kg (ppm)	2.5	<0.019	93	92	39-111	1
tert-Butylbenzene	mg/kg (ppm)	2.5	<0.022	96	94	36-116	2
1,2,4-Trimethylbenzene	mg/kg (ppm)	2.5	<0.016	95	94	35-116	1
sec-Butylbenzene	mg/kg (ppm)	2.5	<0.015	96	95	33-118	1
p-Isopropyltoluene	mg/kg (ppm)	2.5	<0.012	96	94	32-119	2
1,3-Dichlorobenzene	mg/kg (ppm)	2.5	<0.02	92	91	38-111	1
1,4-Dichlorobenzene	mg/kg (ppm)	2.5	<0.032	91	91	39-109	0
1,2-Dichlorobenzene	mg/kg (ppm)	2.5	<0.016	91	90	40-111	1
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	2.5	<0.08	95	100	34-134	5
1,2,4-Trichlorobenzene	mg/kg (ppm)	2.5	<0.036	86	87	31-117	1
Hexachlorobutadiene	mg/kg (ppm)	2.5	<0.04	85	86	25-122	1
Naphthalene	mg/kg (ppm)	2.5	<0.024	92	92	39-120	0
1,2,3-Trichlorobenzene	mg/kg (ppm)	2.5	<0.019	83	84	35-117	1

Date of Report: 07/25/13
Date Received: 06/18/13
Project: Crowley 8th Ave Terminals, Inc. 101.00205.00019, F&BI 306292

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Dichlorodifluoromethane	mg/kg (ppm)	2.5	43	10-76
Chloromethane	mg/kg (ppm)	2.5	70	34-98
Vinyl chloride	mg/kg (ppm)	2.5	76	42-107
Bromomethane	mg/kg (ppm)	2.5	106	46-113
Chloroethane	mg/kg (ppm)	2.5	86	47-115
Trichlorofluoromethane	mg/kg (ppm)	2.5	90	53-112
Acetone	mg/kg (ppm)	12.5	121	39-147
1,1-Dichloroethene	mg/kg (ppm)	2.5	90	65-110
Methylene chloride	mg/kg (ppm)	2.5	106	62-119
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2.5	103	72-122
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	96	71-113
1,1-Dichloroethane	mg/kg (ppm)	2.5	98	76-109
2,2-Dichloropropane	mg/kg (ppm)	2.5	115	64-151
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	97	77-110
Chloroform	mg/kg (ppm)	2.5	98	78-108
2-Butanone (MEK)	mg/kg (ppm)	12.5	110	60-121
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	97	80-109
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	109	72-116
1,1-Dichloropropene	mg/kg (ppm)	2.5	96	77-108
Carbon tetrachloride	mg/kg (ppm)	2.5	121	67-123
Benzene	mg/kg (ppm)	2.5	95	75-107
Trichloroethene	mg/kg (ppm)	2.5	96	72-107
1,2-Dichloropropane	mg/kg (ppm)	2.5	101	78-111
Bromodichloromethane	mg/kg (ppm)	2.5	111	75-126
Dibromomethane	mg/kg (ppm)	2.5	103	80-111
4-Methyl-2-pentanone	mg/kg (ppm)	12.5	109	80-128
cis-1,3-Dichloropropene	mg/kg (ppm)	2.5	120	71-138
Toluene	mg/kg (ppm)	2.5	96	79-112
trans-1,3-Dichloropropene	mg/kg (ppm)	2.5	111	77-135
1,1,2-Trichloroethane	mg/kg (ppm)	2.5	102	84-115
2-Hexanone	mg/kg (ppm)	12.5	110	71-129
1,3-Dichloropropane	mg/kg (ppm)	2.5	99	82-113
Tetrachloroethene	mg/kg (ppm)	2.5	94	77-110
Dibromochloromethane	mg/kg (ppm)	2.5	111	64-152
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2.5	123 vo	83-116
Chlorobenzene	mg/kg (ppm)	2.5	97	82-113
Ethylbenzene	mg/kg (ppm)	2.5	97	81-114
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	2.5	126 vo	76-125
m,p-Xylene	mg/kg (ppm)	5	99	82-115
o-Xylene	mg/kg (ppm)	2.5	99	81-116
Styrene	mg/kg (ppm)	2.5	100	81-118
Isopropylbenzene	mg/kg (ppm)	2.5	99	81-117
Bromoform	mg/kg (ppm)	2.5	113	50-174
n-Propylbenzene	mg/kg (ppm)	2.5	100	82-116
Bromobenzene	mg/kg (ppm)	2.5	97	82-118
1,3,5-Trimethylbenzene	mg/kg (ppm)	2.5	103	83-120
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	2.5	108	83-125
1,2,3-Trichloropropane	mg/kg (ppm)	2.5	99	79-116
2-Chlorotoluene	mg/kg (ppm)	2.5	97	80-114
4-Chlorotoluene	mg/kg (ppm)	2.5	99	82-114
tert-Butylbenzene	mg/kg (ppm)	2.5	102	82-116
1,2,4-Trimethylbenzene	mg/kg (ppm)	2.5	102	82-116
sec-Butylbenzene	mg/kg (ppm)	2.5	103	81-123
p-Isopropyltoluene	mg/kg (ppm)	2.5	103	82-124
1,3-Dichlorobenzene	mg/kg (ppm)	2.5	98	80-118
1,4-Dichlorobenzene	mg/kg (ppm)	2.5	97	79-117
1,2-Dichlorobenzene	mg/kg (ppm)	2.5	97	80-118
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	2.5	114	71-131
1,2,4-Trichlorobenzene	mg/kg (ppm)	2.5	96	75-122
Hexachlorobutadiene	mg/kg (ppm)	2.5	91	74-130
Naphthalene	mg/kg (ppm)	2.5	100	83-128
1,2,3-Trichlorobenzene	mg/kg (ppm)	2.5	92	80-126

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270D

Laboratory Code: 306220-16 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Phenol	mg/kg (ppm)	1.7	<0.0054	75	75	50-150	0
Bis(2-chloroethyl) ether	mg/kg (ppm)	1.7	<0.0016	71	72	50-150	1
2-Chlorophenol	mg/kg (ppm)	1.7	<0.0062	75	74	50-150	1
1,3-Dichlorobenzene	mg/kg (ppm)	1.7	<0.0026	56	62	50-150	10
1,4-Dichlorobenzene	mg/kg (ppm)	1.7	<0.0024	58	63	50-150	8
1,2-Dichlorobenzene	mg/kg (ppm)	1.7	<0.004	62	65	50-150	5
Benzyl alcohol	mg/kg (ppm)	1.7	0.0099	72	81	50-150	12
Bis(2-chloroisopropyl) ether	mg/kg (ppm)	1.7	<0.0016	65	66	50-150	2
2-Methylphenol	mg/kg (ppm)	1.7	<0.0064	75	74	50-150	1
Hexachloroethane	mg/kg (ppm)	1.7	<0.0034	56	61	50-150	9
N-Nitroso-di-n-propylamine	mg/kg (ppm)	1.7	<0.003	75	77	50-150	3
3-Methylphenol + 4-Methylphenol	mg/kg (ppm)	1.7	<0.014	75	75	50-150	0
Nitrobenzene	mg/kg (ppm)	1.7	<0.0026	72	73	50-150	1
Isophorone	mg/kg (ppm)	1.7	<0.0012	74	73	50-150	1
2-Nitrophenol	mg/kg (ppm)	1.7	<0.0082	83	83	50-150	0
2,4-Dimethylphenol	mg/kg (ppm)	1.7	<0.019	73	68	50-150	7
Benzoic acid	mg/kg (ppm)	2.5	<0.055	18 vo	23 vo	50-150	24 vo
Bis(2-chloroethoxy)methane	mg/kg (ppm)	1.7	<0.0014	72	72	50-150	0
2,4-Dichlorophenol	mg/kg (ppm)	1.7	<0.0058	80	81	50-150	1
1,2,4-Trichlorobenzene	mg/kg (ppm)	1.7	<0.0034	70	70	50-150	0
Hexachlorobutadiene	mg/kg (ppm)	1.7	<0.002	66	68	50-150	3
4-Chloroaniline	mg/kg (ppm)	3.3	<0.18	48 vo	42 vo	50-150	13
4-Chloro-3-methylphenol	mg/kg (ppm)	1.7	<0.0044	80	83	50-150	4
2-Methylnaphthalene	mg/kg (ppm)	1.7	<0.001	71	71	50-150	0
Hexachlorocyclopentadiene	mg/kg (ppm)	1.7	<0.0022	47 vo	39 vo	50-150	19
2,4,6-Trichlorophenol	mg/kg (ppm)	1.7	<0.008	80	80	50-150	0
2,4,5-Trichlorophenol	mg/kg (ppm)	1.7	<0.0096	81	82	50-150	1
2-Chloronaphthalene	mg/kg (ppm)	1.7	<0.0014	75	74	50-150	1
2-Nitroaniline	mg/kg (ppm)	1.7	<0.0026	83	84	50-150	1
Dimethyl phthalate	mg/kg (ppm)	1.7	<0.0012	80	79	50-150	1
2,6-Dinitrotoluene	mg/kg (ppm)	1.7	<0.0018	86	85	50-150	1
3-Nitroaniline	mg/kg (ppm)	3.3	<0.017	52	48 vo	50-150	8
2,4-Dinitrophenol	mg/kg (ppm)	1.7	<0.014	37 vo	31 vo	50-150	18
Dibenzofuran	mg/kg (ppm)	1.7	<0.001	78	76	50-150	3
2,4-Dinitrotoluene	mg/kg (ppm)	1.7	<0.0016	81	81	50-150	0
4-Nitrophenol	mg/kg (ppm)	1.7	<0.018	63	111	50-150	55 vo
Diethyl phthalate	mg/kg (ppm)	1.7	<0.004	78	78	50-150	0
4-Chlorophenyl phenyl ether	mg/kg (ppm)	1.7	<0.0016	74	73	50-150	1
N-Nitrosodiphenylamine	mg/kg (ppm)	1.7	<0.001	79	77	50-150	3
4-Nitroaniline	mg/kg (ppm)	3.3	<0.018	51	56	50-150	9
4,6-Dinitro-2-methylphenol	mg/kg (ppm)	1.7	<0.011	67	56	50-150	18
4-Bromophenyl phenyl ether	mg/kg (ppm)	1.7	<0.0016	80	79	50-150	1
Hexachlorobenzene	mg/kg (ppm)	1.7	<0.001	79	77	50-150	3
Pentachlorophenol	mg/kg (ppm)	1.7	<0.0062	74	75	50-150	1
Carbazole	mg/kg (ppm)	1.7	<0.002	72	73	50-150	1
Di-n-butyl phthalate	mg/kg (ppm)	1.7	<0.02	78	75	50-150	4
Benzyl butyl phthalate	mg/kg (ppm)	1.7	<0.0058	92	89	50-150	3
Bis(2-ethylhexyl) phthalate	mg/kg (ppm)	1.7	<0.013	86	83	50-150	4
Di-n-octyl phthalate	mg/kg (ppm)	1.7	<0.0034	91	89	50-150	2

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270D

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Phenol	mg/kg (ppm)	1.7	81	84	51-119	4
Bis(2-chloroethyl) ether	mg/kg (ppm)	1.7	82	83	60-112	1
2-Chlorophenol	mg/kg (ppm)	1.7	87	91	59-114	4
1,3-Dichlorobenzene	mg/kg (ppm)	1.7	84	88	62-113	5
1,4-Dichlorobenzene	mg/kg (ppm)	1.7	84	88	61-114	5
1,2-Dichlorobenzene	mg/kg (ppm)	1.7	85	88	61-113	3
Benzyl alcohol	mg/kg (ppm)	1.7	87	92	50-119	6
Bis(2-chloroisopropyl) ether	mg/kg (ppm)	1.7	77	80	59-113	4
2-Methylphenol	mg/kg (ppm)	1.7	84	87	58-115	4
Hexachloroethane	mg/kg (ppm)	1.7	85	90	63-114	6
N-Nitroso-di-n-propylamine	mg/kg (ppm)	1.7	85	91	62-114	7
3-Methylphenol + 4-Methylphenol	mg/kg (ppm)	1.7	86	89	54-120	3
Nitrobenzene	mg/kg (ppm)	1.7	84	90	59-114	7
Isophorone	mg/kg (ppm)	1.7	89	96	61-113	8
2-Nitrophenol	mg/kg (ppm)	1.7	96	103	59-114	7
2,4-Dimethylphenol	mg/kg (ppm)	1.7	77	75	54-107	3
Benzoic acid	mg/kg (ppm)	2.5	112	118	43-150	5
Bis(2-chloroethoxy)methane	mg/kg (ppm)	1.7	86	90	60-114	5
2,4-Dichlorophenol	mg/kg (ppm)	1.7	94	97	57-118	3
1,2,4-Trichlorobenzene	mg/kg (ppm)	1.7	88	91	56-112	3
Hexachlorobutadiene	mg/kg (ppm)	1.7	87	91	60-116	4
4-Chloroaniline	mg/kg (ppm)	3.3	50	52	10-126	4
4-Chloro-3-methylphenol	mg/kg (ppm)	1.7	96	101	59-115	5
2-Methylnaphthalene	mg/kg (ppm)	1.7	86	89	60-115	3
Hexachlorocyclopentadiene	mg/kg (ppm)	1.7	97	98	41-107	1
2,4,6-Trichlorophenol	mg/kg (ppm)	1.7	93	97	47-119	4
2,4,5-Trichlorophenol	mg/kg (ppm)	1.7	102	104	61-121	2
2-Chloronaphthalene	mg/kg (ppm)	1.7	92	95	58-114	3
2-Nitroaniline	mg/kg (ppm)	1.7	99	102	55-119	3
Dimethyl phthalate	mg/kg (ppm)	1.7	99	101	58-116	2
2,6-Dinitrotoluene	mg/kg (ppm)	1.7	104	109	57-119	5
3-Nitroaniline	mg/kg (ppm)	3.3	78	82	10-143	5
2,4-Dinitrophenol	mg/kg (ppm)	1.7	116	119	40-122	3
Dibenzofuran	mg/kg (ppm)	1.7	94	98	56-115	4
2,4-Dinitrotoluene	mg/kg (ppm)	1.7	101	102	53-126	1
4-Nitrophenol	mg/kg (ppm)	1.7	97	98	40-124	1
Diethyl phthalate	mg/kg (ppm)	1.7	99	99	57-116	0
4-Chlorophenyl phenyl ether	mg/kg (ppm)	1.7	94	96	54-119	2
N-Nitrosodiphenylamine	mg/kg (ppm)	1.7	87	93	54-113	7
4-Nitroaniline	mg/kg (ppm)	3.3	85	90	47-109	6
4,6-Dinitro-2-methylphenol	mg/kg (ppm)	1.7	111 vo	116 vo	57-108	4
4-Bromophenyl phenyl ether	mg/kg (ppm)	1.7	96	101	56-116	5
Hexachlorobenzene	mg/kg (ppm)	1.7	93	97	57-115	4
Pentachlorophenol	mg/kg (ppm)	1.7	94	97	45-123	3
Carbazole	mg/kg (ppm)	1.7	90	95	57-116	5
Di-n-butyl phthalate	mg/kg (ppm)	1.7	98	103	56-118	5
Benzyl butyl phthalate	mg/kg (ppm)	1.7	103	107	56-122	4
Bis(2-ethylhexyl) phthalate	mg/kg (ppm)	1.7	101	99	56-125	2
Di-n-octyl phthalate	mg/kg (ppm)	1.7	126 vo	109	58-120	14

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270D

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Phenol	mg/kg (ppm)	1.7	84	85	51-119	1
Bis(2-chloroethyl) ether	mg/kg (ppm)	1.7	80	84	60-112	5
2-Chlorophenol	mg/kg (ppm)	1.7	87	89	59-114	2
1,3-Dichlorobenzene	mg/kg (ppm)	1.7	79	84	62-113	6
1,4-Dichlorobenzene	mg/kg (ppm)	1.7	78	83	61-114	6
1,2-Dichlorobenzene	mg/kg (ppm)	1.7	81	84	61-113	4
Benzyl alcohol	mg/kg (ppm)	1.7	93	96	50-119	3
Bis(2-chloroisopropyl) ether	mg/kg (ppm)	1.7	79	84	59-113	6
2-Methylphenol	mg/kg (ppm)	1.7	84	82	58-115	2
Hexachloroethane	mg/kg (ppm)	1.7	80	85	63-114	6
N-Nitroso-di-n-propylamine	mg/kg (ppm)	1.7	97	97	62-114	0
3-Methylphenol + 4-Methylphenol	mg/kg (ppm)	1.7	88	87	54-120	1
Nitrobenzene	mg/kg (ppm)	1.7	83	89	59-114	7
Isophorone	mg/kg (ppm)	1.7	93	96	61-113	3
2-Nitrophenol	mg/kg (ppm)	1.7	94	99	59-114	5
2,4-Dimethylphenol	mg/kg (ppm)	1.7	78	50 vo	54-107	44 vo
Benzoic acid	mg/kg (ppm)	2.5	142	148	43-150	4
Bis(2-chloroethoxy)methane	mg/kg (ppm)	1.7	84	91	60-114	8
2,4-Dichlorophenol	mg/kg (ppm)	1.7	92	96	57-118	4
1,2,4-Trichlorobenzene	mg/kg (ppm)	1.7	81	88	56-112	8
Hexachlorobutadiene	mg/kg (ppm)	1.7	79	85	60-116	7
4-Chloroaniline	mg/kg (ppm)	3.3	68	66	10-126	3
4-Chloro-3-methylphenol	mg/kg (ppm)	1.7	98	97	59-115	1
2-Methylnaphthalene	mg/kg (ppm)	1.7	83	86	60-115	4
Hexachlorocyclopentadiene	mg/kg (ppm)	1.7	100	103	41-107	3
2,4,6-Trichlorophenol	mg/kg (ppm)	1.7	95	97	47-119	2
2,4,5-Trichlorophenol	mg/kg (ppm)	1.7	99	99	61-121	0
2-Chloronaphthalene	mg/kg (ppm)	1.7	85	89	58-114	5
2-Nitroaniline	mg/kg (ppm)	1.7	109	108	55-119	1
Dimethyl phthalate	mg/kg (ppm)	1.7	98	97	58-116	1
2,6-Dinitrotoluene	mg/kg (ppm)	1.7	93	93	57-119	0
3-Nitroaniline	mg/kg (ppm)	3.3	90	90	10-143	0
2,4-Dinitrophenol	mg/kg (ppm)	1.7	110	99	40-122	11
Dibenzofuran	mg/kg (ppm)	1.7	89	92	56-115	3
2,4-Dinitrotoluene	mg/kg (ppm)	1.7	97	95	53-126	2
4-Nitrophenol	mg/kg (ppm)	1.7	98	96	40-124	2
Diethyl phthalate	mg/kg (ppm)	1.7	100	96	57-116	4
4-Chlorophenyl phenyl ether	mg/kg (ppm)	1.7	88	89	54-119	1
N-Nitrosodiphenylamine	mg/kg (ppm)	1.7	90	93	54-113	3
4-Nitroaniline	mg/kg (ppm)	3.3	84	85	47-109	1
4,6-Dinitro-2-methylphenol	mg/kg (ppm)	1.7	104	102	57-108	2
4-Bromophenyl phenyl ether	mg/kg (ppm)	1.7	91	96	56-116	5
Hexachlorobenzene	mg/kg (ppm)	1.7	90	93	57-115	3
Pentachlorophenol	mg/kg (ppm)	1.7	100	104	45-123	4
Carbazole	mg/kg (ppm)	1.7	88	93	57-116	6
Di-n-butyl phthalate	mg/kg (ppm)	1.7	98	108	56-118	10
Benzyl butyl phthalate	mg/kg (ppm)	1.7	102	105	56-122	3
Bis(2-ethylhexyl) phthalate	mg/kg (ppm)	1.7	105	109	56-125	4
Di-n-octyl phthalate	mg/kg (ppm)	1.7	102	108	58-120	6

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR PNA'S BY EPA METHOD 8270D SIM

Laboratory Code: 306292-12 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.17	77	69	44-129	11
Acenaphthylene	mg/kg (ppm)	0.17	75	75	52-121	0
Acenaphthene	mg/kg (ppm)	0.17	75	74	51-123	1
Fluorene	mg/kg (ppm)	0.17	82	82	37-137	0
Phenanthrene	mg/kg (ppm)	0.17	80	83	45-124	4
Anthracene	mg/kg (ppm)	0.17	80	83	32-124	4
Fluoranthene	mg/kg (ppm)	0.17	91	94	50-125	3
Pyrene	mg/kg (ppm)	0.17	88	94	41-135	7
Benz(a)anthracene	mg/kg (ppm)	0.17	80	84	23-144	5
Chrysene	mg/kg (ppm)	0.17	83	88	45-122	6
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	83	84	31-144	1
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	69	72	45-130	4
Benzo(a)pyrene	mg/kg (ppm)	0.17	73	75	39-128	3
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	80	81	28-146	1
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	74	76	46-129	3
Benzo(g,h,i)perylene	mg/kg (ppm)	0.17	73	75	37-133	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.17	82	82	58-121	0
Acenaphthylene	mg/kg (ppm)	0.17	85	86	54-121	1
Acenaphthene	mg/kg (ppm)	0.17	85	90	54-123	6
Fluorene	mg/kg (ppm)	0.17	90	91	56-127	1
Phenanthrene	mg/kg (ppm)	0.17	87	88	55-122	1
Anthracene	mg/kg (ppm)	0.17	86	88	50-120	2
Fluoranthene	mg/kg (ppm)	0.17	98	99	54-129	1
Pyrene	mg/kg (ppm)	0.17	96	97	53-127	1
Benz(a)anthracene	mg/kg (ppm)	0.17	88	88	51-115	0
Chrysene	mg/kg (ppm)	0.17	93	96	55-129	3
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	86	89	56-123	3
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	82	83	54-131	1
Benzo(a)pyrene	mg/kg (ppm)	0.17	74	78	51-118	5
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	87	90	49-148	3
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	85	87	50-141	2
Benzo(g,h,i)perylene	mg/kg (ppm)	0.17	82	84	52-131	2

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR PNA'S BY EPA METHOD 8270D SIM

Laboratory Code: 306270-10 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.17	0.00023	71	74	44-129	4
Acenaphthylene	mg/kg (ppm)	0.17	<0.000091	76	78	52-121	3
Acenaphthene	mg/kg (ppm)	0.17	<0.00014	75	77	51-123	3
Fluorene	mg/kg (ppm)	0.17	<0.00015	79	81	37-137	2
Phenanthrene	mg/kg (ppm)	0.17	0.00085	76	77	45-124	1
Anthracene	mg/kg (ppm)	0.17	<0.000088	78	78	32-124	0
Fluoranthene	mg/kg (ppm)	0.17	<0.00028	77	78	50-125	1
Pyrene	mg/kg (ppm)	0.17	<0.00026	84	89	41-135	6
Benz(a)anthracene	mg/kg (ppm)	0.17	0.00027	78	79	23-144	1
Chrysene	mg/kg (ppm)	0.17	0.00026	82	83	45-122	1
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	0.00020	72	77	31-144	7
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	<0.00036	70	68	45-130	3
Benzo(a)pyrene	mg/kg (ppm)	0.17	<0.00022	76	77	39-128	1
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	<0.00062	82	80	28-146	2
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	<0.00034	77	76	46-129	1
Benzo(g,h,i)perylene	mg/kg (ppm)	0.17	<0.00034	73	70	37-133	4

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.17	87	82	58-121	6
Acenaphthylene	mg/kg (ppm)	0.17	90	88	54-121	2
Acenaphthene	mg/kg (ppm)	0.17	89	87	54-123	2
Fluorene	mg/kg (ppm)	0.17	90	90	56-127	0
Phenanthrene	mg/kg (ppm)	0.17	90	90	55-122	0
Anthracene	mg/kg (ppm)	0.17	85	86	50-120	1
Fluoranthene	mg/kg (ppm)	0.17	92	95	54-129	3
Pyrene	mg/kg (ppm)	0.17	94	95	53-127	1
Benz(a)anthracene	mg/kg (ppm)	0.17	91	92	51-115	1
Chrysene	mg/kg (ppm)	0.17	93	96	55-129	3
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	88 J	90	56-123	2
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	83 J	82	54-131	1
Benzo(a)pyrene	mg/kg (ppm)	0.17	83 J	82	51-118	1
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	99 J	100	49-148	1
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	90 J	91	50-141	1
Benzo(g,h,i)perylene	mg/kg (ppm)	0.17	85 J	87	52-131	2

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS AS AROCLOR 1016/1260 BY EPA METHOD 8082A

Laboratory Code: 306220-08 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Control Limits	RPD (Limit 20)
Aroclor 1016	mg/kg (ppm)	0.8	<0.033	89	84	50-150	6
Aroclor 1260	mg/kg (ppm)	0.8	<0.033	107	95	50-150	12

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	Acceptance Criteria
Aroclor 1016	mg/kg (ppm)	0.8	91	70-130
Aroclor 1260	mg/kg (ppm)	0.8	95	70-130

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 306220-15 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Beryllium	mg/kg (ppm)	5	0.102	106	113	67-138	6
Chromium	mg/kg (ppm)	50	4.97	102	109	57-128	7
Nickel	mg/kg (ppm)	25	4.38	103	106	69-112	3
Copper	mg/kg (ppm)	50	9.44	98	102	57-120	4
Zinc	mg/kg (ppm)	50	15.2	96 b	103 b	55-129	7 b
Arsenic	mg/kg (ppm)	10	2.20	110 b	117 b	70-118	6 b
Selenium	mg/kg (ppm)	5	<0.912	111	116	64-117	4
Silver	mg/kg (ppm)	10	<0.0784	113	119	73-122	5
Cadmium	mg/kg (ppm)	10	<0.204	112	122 vo	83-116	9
Antimony	mg/kg (ppm)	20	0.621	95	105	54-116	10
Barium	mg/kg (ppm)	50	20.5	119 b	129 b	60-141	8 b
Thallium	mg/kg (ppm)	5	<0.0434	107	117	68-121	9
Lead	mg/kg (ppm)	50	4.31	109	118	59-148	8

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Beryllium	mg/kg (ppm)	5	114	69-146
Chromium	mg/kg (ppm)	50	105	78-121
Nickel	mg/kg (ppm)	25	103	82-122
Copper	mg/kg (ppm)	50	100	82-119
Zinc	mg/kg (ppm)	50	97	81-120
Arsenic	mg/kg (ppm)	10	99	83-113
Selenium	mg/kg (ppm)	5	105	84-115
Silver	mg/kg (ppm)	10	104	81-116
Cadmium	mg/kg (ppm)	10	103	54-114
Antimony	mg/kg (ppm)	20	95	69-114
Barium	mg/kg (ppm)	50	103	85-116
Thallium	mg/kg (ppm)	5	103	77-123
Lead	mg/kg (ppm)	50	103	80-120

Date of Report: 07/25/13
Date Received: 06/18/13
Project: Crowley 8th Ave Terminals, Inc. 101.00205.00019, F&BI 306292

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 306269-17 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Copper	mg/kg (ppm)	50	6.46	93	93	57-120	0
Zinc	mg/kg (ppm)	50	12.8	92 b	95 b	55-129	3 b
Arsenic	mg/kg (ppm)	10	0.974	101	104	70-118	3
Silver	mg/kg (ppm)	10	0.0860	100	102	73-122	2
Antimony	mg/kg (ppm)	20	0.193	92	93	54-116	1
Barium	mg/kg (ppm)	50	9.49	104	102	60-141	2
Thallium	mg/kg (ppm)	5	0.0660	91	92	68-121	1
Lead	mg/kg (ppm)	50	0.934	99	98	59-148	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Copper	mg/kg (ppm)	50	97	82-119
Zinc	mg/kg (ppm)	50	102	81-120
Arsenic	mg/kg (ppm)	10	101	83-113
Silver	mg/kg (ppm)	10	99	81-116
Antimony	mg/kg (ppm)	20	95	69-114
Barium	mg/kg (ppm)	50	96	85-116
Thallium	mg/kg (ppm)	5	90	77-123
Lead	mg/kg (ppm)	50	96	80-120

Date of Report: 07/25/13
Date Received: 06/18/13
Project: Crowley 8th Ave Terminals, Inc. 101.00205.00019, F&BI 306292

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Laboratory Code: 306220-15 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Mercury	mg/kg (ppm)	0.125	0.074	105 b	94 b	62-140	11 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Mercury	mg/kg (ppm)	0.125	87	63-131

Date of Report: 07/25/13
Date Received: 06/18/13
Project: Crowley 8th Ave Terminals, Inc. 101.00205.00019, F&BI 306292

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Laboratory Code: 306244-14 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Mercury	mg/kg (ppm)	0.125	0.14	98 b	95 b	62-140	3 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Mercury	mg/kg (ppm)	0.125	87	63-131

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

306292

SAMPLE CHAIN OF CUSTODY # KJ 06118/13 V3/ D04/053

Page # 1 of 2

Send Report To MIKE STATON

Company SLR INTERNATIONAL CORPORATION

Address 22118 20TH AVE SE, G-202

City, State, ZIP BOTHELL, WA 98021

Phone # (425)402-8800 Fax # (425)402-8488

SAMPLERS (signature)

PROJECT NAME/NO. Crowley 8th Ave Terminals, Inc. 101.00205.00019

PO# 101.00205.00019

REMARKS NWTPH-Dx after silica gel cleanup

TURNAROUND TIME
- ☒ Standard (2 Weeks)
- ☐ RUSH
- Rush charges authorized by

SAMPLE DISPOSAL
- ☒ Dispose after 30 days
- ☐ Return samples
- ☒ Will call with instructions

✓: added per Cyn 6/20/13

✓ = added per Mike Staton Cyn 7/9/13

⊗ - added per Mike Staton Cyn 9/11/13

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Metals (priority pollutant + Ba)	PAHs by 8270D-SIM	PCBs by 8082	Hex. Cr by 7196A	Mercury by 1631E		Notes
EMW-15D-1.0'	01A-F	6/18/13	0810	SOIL	6	X			X	X		X	X	X		X		
EMW-15D-2.5'	02		0820															Archive
EMW-15D-5.0'	03		0835			X			X	X		X	X	X		X		
EMW-15D-10.0'	04		0850			X			X	X		X	X	X		X		
EMW-15D-12.5'	05		0910															Archive
EMW-15D-15.0'	06		0920		↓							✓	⊗			✓		↓
EMW-16D-1.0'	07A-J		1140		10	X	X		X	X		X	X	X		X		
EMW-16D-5.0'	08		1200			X	X		X	X		X	X	X		X		
EMW-16D-7.5'	09		1220															Archive
EMW-16D-10.0'	10	↓	1240	↓	↓	X	X		X	X		X	X	X		X		

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	CHRIS LEE	SLR	6/18/13	1649
Received by:	Nhan Phan	FCBT	6/18/13	1649
Relinquished by:				
Received by:		Samples received at 3 °C		

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

306292

SAMPLE CHAIN OF CUSTODY

KJ 06/18/13

V3/ D04/ 053

Page # 2 of 2

Send Report To Mike Staton

Company SLR International Corporation

Address 22118 20th Ave SE, G-202

City, State, ZIP Bothell, WA 98021

Phone #(425)402-8800 Fax #(425)402-8488

SAMPLERS (signature)

PROJECT NAME/NO. Crowley 8th Ave. Terminals, Inc. 101.00205.00019

PO# 101.00205.00019

REMARKS NWTPH-Dx after silica gel cleanup

TURNAROUND TIME
- ☒ Standard (2 Weeks)
- ☐ RUSH
- Rush charges authorized by

SAMPLE DISPOSAL
- ☒ Dispose after 30 days
- ☐ Return samples
- ☒ Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Metals (Priority pollutant + Ba)	PAHs by 8270D SIM	PCBs by 8082	Hex. Cr. by 7196A	Mercury by 1631E		Notes
EMW-16D-12.5'	11 A-J	6/18/13	1300	SOIL	10													Archive
EMW-16D-15.0'	12		1310										X					
EMW-16D-20.0'	13		1340															
EMW-16D-25.0'	14		1400															
EMW-16D-30.0'	15		1415															
EMW-16D-35.0'	16		1425															
EMW-16D-40.0'	17		1450															
EMW-16D-45.0'	18	↓	1510	↓	↓													
Trip Blank	19 A B	—	—	Water	2													(WP) 6-18-13 Added at lo
																		↓

ANALYSES REQUESTED

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Chris Lee	SLR	6/18/13	1649
Received by:	Nhan Phan	FEBI	6/18/13	1649
Relinquished by:				
Received by:		Samples received at 3		°C

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Kurt Johnson, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
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fbi@isomedia.com
www.friedmanandbruya.com

July 26, 2013

Mike Staton
SLR International Corp.
22118 20th Ave. SE., G-202
Bothell, WA 98021

Dear Mr. Staton:

Included are the results from the testing of material submitted on June 17, 2013 from the Crowley 8th Avenue Terminals 101.00205.00019, F&BI 306269 project. There are 71 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michele Costales Poquiz

Michele Costales Poquiz
Chemist

Enclosures
SLR0726R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on June 17, 2013 by Friedman & Bruya, Inc. from the SLR International Corp. Crowley 8th Avenue Terminals 101.00205.00019, F&BI 306269 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SLR International Corp.
306269-01	EMW-4D-2.5'
306269-02	EMW-4D-5.0'
306269-03	EMW-4D-7.5'
306269-04	EMW-4D-12.5'
306269-05	EMW-4D-15.0'
306269-06	EMW-4D-20.0'
306269-07	EMW-4D-25.0'
306269-08	EMW-4D-30.0'
306269-09	EMW-4D-35.0'
306269-10	EMW-14D-1.0'
306269-11	EMW-14D-2.5'
306269-12	EMW-14D-5.0'
306269-13	EMW-14D-7.5'
306269-14	EMW-14D-10.0'
306269-15	EMW-14D-12.5'
306269-16	EMW-14D-15.0'
306269-17	EMW-14D-20.0'
306269-18	EMW-14D-25.0'
306269-19	EMW-14D-30.0'
306269-20	EMW-14D-35.0'
306269-21	EMW-14D-40.0'
306269-22	EMW-14D-45.0'
306269-23	EMW-14D-50.0'
306269-24	Trip Blank

Total Petroleum Hydrocarbons as Diesel and Motor Oil by Method NWTPH-Dx with Silica Gel

All quality control requirements were acceptable.

Volatile Compounds by EPA Method 8260C

A low level of methylene chloride was identified in the method blank. The presence of methylene chloride in the samples EMW-4D-5.0' and EMW-14D-1.0' is likely due to laboratory contamination. The results have been flagged accordingly.

The relative percent difference (RPD) for the matrix spike (MS) and matrix spike duplicate (MSD) fell outside of acceptance criteria for 1,1-dichloroethene. In addition, the percent recovery for the laboratory control sample (LCS) failed high for several compounds. The compounds were not identified in the samples, therefore the results are valid.

Semivolatile Organic Compounds by EPA Method 8270D
The samples EMW-14D-5.0' and EMW-14D-10.0' were diluted due to matrix interferences. The reporting limits have been raised accordingly.

The calibration result for the surrogate 2,4,6-tribromophenol fell outside of acceptance criteria for the sample EMW-14D-15.0'. In addition, the calibration result for 2,4-dinitrophenol and 4,6-dinitro-2-methylphenol fell outside of acceptance criteria in the method blank. The results have been flagged accordingly.

The presence of bis(2-ethylhexyl) phthalate in the samples EMW-4D-7.5' and EMW-14D-15.0' is likely due to laboratory contamination. The results have been flagged accordingly.

The percent recovery for the MS, MSD, and laboratory control sample duplicate (LCSD) exceeded acceptance criteria for several compounds. In addition, the relative percent difference (RPD) for the LCS/LCSD and the MS/MSD exceeded acceptance criteria for several compounds. The results have been flagged accordingly.

Semivolatile Organic Compounds by EPA Method 8270D SIM
The samples EMW-4D-12.5', EMW-14D-5.0', EMW-14D-10.0' were diluted due to matrix interferences. The reporting limits have been raised accordingly.

The percent recovery for the MS and MSD and the RPD for the MS/MSD fell outside of acceptance criteria for several compounds. The results have been flagged accordingly.

The internal standard associated with several analytes in the LCS was out of control limits. The reported results are estimates.

The percent recovery for the matrix spike (MS) and the relative percent difference for the MS and matrix spike duplicate (MSD) fell outside of acceptance criteria. Based on review of the analytical data, the high variability is due to the sample matrix.

Polychlorinated Biphenyls as Aroclor 1016/1260 by EPA Method 8082A
The samples EMW-14D-5.0' and EMW-14D-10.0' were diluted due to matrix interferences. The reporting limits have been raised accordingly.

Total Metals by EPA Method 200.8
A trace level of copper was identified in the method blank, therefore the reporting limit for the analyte was raised.

Total Mercury by EPA Method 1631E
All quality control requirements were acceptable.

Date of Report: 07/26/13
Date Received: 06/17/13
Project: Crowley 8th Avenue Terminals 101.00205.00019, F&BI 306269
Date Extracted: 06/21/13
Date Analyzed: 06/22/13

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx
Sample Extracts Passed Through a Silica Gel Column Prior to Analysis
Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 53-144)
EMW-4D-2.5' 306269-01	<12	<21	112
EMW-4D-5.0' 306269-02	<12	<21	108
EMW-4D-7.5' 306269-03	<12	<21	104
EMW-14D-1.0' 306269-10	<12	<21	100
EMW-14D-5.0' 306269-12	23 x	350	107
EMW-14D-10.0' 306269-14 1/10	180 x	1,200	122
Method Blank 03-1200 MB	<12	<21	115

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-4D-2.5'	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306269-01
Date Analyzed:	06/25/13	Data File:	062513.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-4D-5.0'	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306269-02
Date Analyzed:	06/25/13	Data File:	062514.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	0.059 lc fb	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-4D-7.5'	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306269-03
Date Analyzed:	06/25/13	Data File:	062515.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-14D-1.0'	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306269-10
Date Analyzed:	06/25/13	Data File:	062516.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	0.088 lc fb	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-14D-5.0'	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306269-12
Date Analyzed:	06/25/13	Data File:	062517.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-14D-10.0'	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306269-14
Date Analyzed:	06/25/13	Data File:	062518.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	0.72
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	03-1225 mb
Date Analyzed:	06/25/13	Data File:	062511.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	0.058 lc	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-4D-2.5'	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	306269-01
Date Analyzed:	06/25/13	Data File:	062507.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	62	56	115
Phenol-d6	64	54	113
Nitrobenzene-d5	70	31	164
2-Fluorobiphenyl	72	47	133
2,4,6-Tribromophenol	80	35	141
Terphenyl-d14	97	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	0.019	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014
2-Methylphenol	<0.0064	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062 j
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	<0.013
2-Methylnaphthalene	<0.001	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-4D-5.0'	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	306269-02
Date Analyzed:	06/25/13	Data File:	062510.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	70	56	115
Phenol-d6	79	54	113
Nitrobenzene-d5	77	31	164
2-Fluorobiphenyl	76	47	133
2,4,6-Tribromophenol	89	35	141
Terphenyl-d14	91	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	0.019	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014
2-Methylphenol	<0.0064	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062 j
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	0.014 lc
2-Methylnaphthalene	<0.001	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-4D-7.5'	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	306269-03
Date Analyzed:	06/25/13	Data File:	062515.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	67	56	115
Phenol-d6	82	54	113
Nitrobenzene-d5	75	31	164
2-Fluorobiphenyl	83	47	133
2,4,6-Tribromophenol	92	35	141
Terphenyl-d14	89	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	0.022	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014
2-Methylphenol	<0.0064	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062 j
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	<0.013
2-Methylnaphthalene	<0.001	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-14D-1.0'	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	306269-10
Date Analyzed:	06/25/13	Data File:	062516.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	65	56	115
Phenol-d6	75	54	113
Nitrobenzene-d5	73	31	164
2-Fluorobiphenyl	73	47	133
2,4,6-Tribromophenol	92	35	141
Terphenyl-d14	92	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	0.021	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014
2-Methylphenol	<0.0064	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062 j
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	<0.013
2-Methylnaphthalene	<0.001	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-14D-5.0'	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	306269-12 1/500
Date Analyzed:	06/25/13	Data File:	062518.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	45 ds	56	115
Phenol-d6	25 ds	54	113
Nitrobenzene-d5	35 ds	31	164
2-Fluorobiphenyl	55 ds	47	133
2,4,6-Tribromophenol	0 ds	35	141
Terphenyl-d14	140 ds	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<2.7	2,4,6-Trichlorophenol	<4
Bis(2-chloroethyl) ether	<0.8	2,4,5-Trichlorophenol	<4.8
2-Chlorophenol	<3.1	2-Chloronaphthalene	<0.7
1,3-Dichlorobenzene	<1.3	2-Nitroaniline	<1.3
1,4-Dichlorobenzene	<1.2	Dimethyl phthalate	<0.6
1,2-Dichlorobenzene	<2	2,6-Dinitrotoluene	<0.9
Benzyl alcohol	<2.5	3-Nitroaniline	<8.7
Bis(2-chloroisopropyl) ether	<0.8	2,4-Dinitrophenol	<6.9
2-Methylphenol	<3.2	Dibenzofuran	<0.5
Hexachloroethane	<1.7	2,4-Dinitrotoluene	<0.8
N-Nitroso-di-n-propylamine	<1.5	4-Nitrophenol	<8.9
3-Methylphenol + 4-Methylphenol	<7.2	Diethyl phthalate	<2
Nitrobenzene	<1.3	4-Chlorophenyl phenyl ether	<0.8
Isophorone	<0.6	N-Nitrosodiphenylamine	<0.5
2-Nitrophenol	<4.1	4-Nitroaniline	<9.1
2,4-Dimethylphenol	<9.3	4,6-Dinitro-2-methylphenol	<5.3
Benzoic acid	<27	4-Bromophenyl phenyl ether	<0.8
Bis(2-chloroethoxy)methane	<0.7	Hexachlorobenzene	<0.5
2,4-Dichlorophenol	<2.9	Pentachlorophenol	<3.1 j
1,2,4-Trichlorobenzene	<1.7	Carbazole	<1
Hexachlorobutadiene	<1	Di-n-butyl phthalate	<10
4-Chloroaniline	<89	Benzyl butyl phthalate	<2.9
4-Chloro-3-methylphenol	<2.2	Bis(2-ethylhexyl) phthalate	<6.7
2-Methylnaphthalene	<0.5	Di-n-octyl phthalate	<1.7
Hexachlorocyclopentadiene	<1.1		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-14D-10.0'	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	306269-14 1/400
Date Analyzed:	06/25/13	Data File:	062521.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	54 ds	56	115
Phenol-d6	40 ds	54	113
Nitrobenzene-d5	0 ds	31	164
2-Fluorobiphenyl	60 ds	47	133
2,4,6-Tribromophenol	54 ds	35	141
Terphenyl-d14	120 ds	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<2.2	2,4,6-Trichlorophenol	<3.2
Bis(2-chloroethyl) ether	<0.64	2,4,5-Trichlorophenol	<3.8
2-Chlorophenol	<2.5	2-Chloronaphthalene	<0.56
1,3-Dichlorobenzene	<1	2-Nitroaniline	<1
1,4-Dichlorobenzene	<0.96	Dimethyl phthalate	<0.48
1,2-Dichlorobenzene	<1.6	2,6-Dinitrotoluene	<0.72
Benzyl alcohol	<2	3-Nitroaniline	<7
Bis(2-chloroisopropyl) ether	<0.64	2,4-Dinitrophenol	<5.5
2-Methylphenol	<2.6	Dibenzofuran	3.3
Hexachloroethane	<1.4	2,4-Dinitrotoluene	<0.64
N-Nitroso-di-n-propylamine	<1.2	4-Nitrophenol	<7.1
3-Methylphenol + 4-Methylphenol	<5.8	Diethyl phthalate	<1.6
Nitrobenzene	<1	4-Chlorophenyl phenyl ether	<0.64
Isophorone	<0.48	N-Nitrosodiphenylamine	<0.4
2-Nitrophenol	<3.3	4-Nitroaniline	<7.3
2,4-Dimethylphenol	<7.4	4,6-Dinitro-2-methylphenol	<4.2
Benzoic acid	<22	4-Bromophenyl phenyl ether	<0.64
Bis(2-chloroethoxy)methane	<0.56	Hexachlorobenzene	<0.4
2,4-Dichlorophenol	<2.3	Pentachlorophenol	<2.5 j
1,2,4-Trichlorobenzene	<1.4	Carbazole	2.8
Hexachlorobutadiene	<0.8	Di-n-butyl phthalate	<8
4-Chloroaniline	<71	Benzyl butyl phthalate	<2.3
4-Chloro-3-methylphenol	<1.8	Bis(2-ethylhexyl) phthalate	<5.4
2-Methylnaphthalene	2.8	Di-n-octyl phthalate	<1.4
Hexachlorocyclopentadiene	<0.88		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-14D-15.0'	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306269-16
Date Analyzed:	07/20/13	Data File:	071933.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	85	56	115
Phenol-d6	92	54	113
Nitrobenzene-d5	95	31	164
2-Fluorobiphenyl	94	47	133
2,4,6-Tribromophenol	126 ca	35	141
Terphenyl-d14	123	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	<0.005	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014
2-Methylphenol	<0.0064	Dibenzofuran	0.0023
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062 j
1,2,4-Trichlorobenzene	<0.0034	Carbazole	0.0040
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	0.014 lc
2-Methylnaphthalene	<0.001	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	03-1236 mb
Date Analyzed:	06/25/13	Data File:	062506.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	79	56	115
Phenol-d6	88	54	113
Nitrobenzene-d5	92	31	164
2-Fluorobiphenyl	90	47	133
2,4,6-Tribromophenol	96	35	141
Terphenyl-d14	95	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	<0.005	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014
2-Methylphenol	<0.0064	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062 j
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	<0.013
2-Methylnaphthalene	<0.001	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	03-1240 mb
Date Analyzed:	07/05/13	Data File:	070506.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	90	56	115
Phenol-d6	94	54	113
Nitrobenzene-d5	98	31	164
2-Fluorobiphenyl	95	47	133
2,4,6-Tribromophenol	97	35	141
Terphenyl-d14	112	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	<0.005 j	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014 j
2-Methylphenol	<0.0064	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019 jl	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062 j
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	<0.013
2-Methylnaphthalene	<0.001	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	03-1298 mb
Date Analyzed:	07/09/13	Data File:	070919.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	90	56	115
Phenol-d6	88	54	113
Nitrobenzene-d5	94	31	164
2-Fluorobiphenyl	96	47	133
2,4,6-Tribromophenol	101	35	141
Terphenyl-d14	95	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	<0.005	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014 ca
2-Methylphenol	<0.0064	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019	4,6-Dinitro-2-methylphenol	<0.011 ca
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062 j
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	<0.013
2-Methylnaphthalene	<0.001	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-4D-2.5'	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	306269-01
Date Analyzed:	06/26/13	Data File:	062611.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	79	50	150
Benzo(a)anthracene-d12	80	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.00022
Acenaphthylene	<0.000091
Acenaphthene	<0.00014
Fluorene	<0.00015
Phenanthrene	<0.00032
Anthracene	<0.000088
Fluoranthene	<0.00028
Pyrene	<0.00026
Benz(a)anthracene	<0.00018
Chrysene	<0.00019
Benzo(a)pyrene	<0.00022
Benzo(b)fluoranthene	<0.00018
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	<0.00062
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	<0.00034

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-4D-5.0'	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	306269-02
Date Analyzed:	06/25/13	Data File:	062519.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	80	50	150
Benzo(a)anthracene-d12	86	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.00022
Acenaphthylene	<0.000091
Acenaphthene	<0.00014
Fluorene	<0.00015
Phenanthrene	<0.00032
Anthracene	<0.000088
Fluoranthene	0.00028
Pyrene	0.00032
Benz(a)anthracene	0.00025
Chrysene	0.00025
Benzo(a)pyrene	0.00025
Benzo(b)fluoranthene	0.00036
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	<0.00062
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	<0.00034

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-4D-7.5'	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	306269-03
Date Analyzed:	06/26/13	Data File:	062612.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	71	50	150
Benzo(a)anthracene-d12	80	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.00022
Acenaphthylene	<0.000091
Acenaphthene	<0.00014
Fluorene	<0.00015
Phenanthrene	0.00050
Anthracene	0.00026
Fluoranthene	0.00038
Pyrene	0.00042
Benz(a)anthracene	0.00032
Chrysene	0.00048
Benzo(a)pyrene	0.00042
Benzo(b)fluoranthene	0.00060
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	<0.00062
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	0.00060

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-4D-12.5'	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306269-04 1/10
Date Analyzed:	07/10/13	Data File:	071013.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	92 ds	50	150
Benzo(a)anthracene-d12	102 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Benzo(a)pyrene	0.021

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-14D-1.0'	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	306269-10
Date Analyzed:	06/26/13	Data File:	062608.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	73	50	150
Benzo(a)anthracene-d12	82	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.00022
Acenaphthylene	<0.000091
Acenaphthene	<0.00014
Fluorene	<0.00015
Phenanthrene	0.0010
Anthracene	<0.000088
Fluoranthene	0.00073
Pyrene	0.00078
Benz(a)anthracene	0.00043
Chrysene	0.00081
Benzo(a)pyrene	0.00027
Benzo(b)fluoranthene	0.00067
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	<0.00062
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	<0.00034

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-14D-5.0'	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	306269-12 1/500
Date Analyzed:	06/25/13	Data File:	062517.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	710 ds	50	150
Benzo(a)anthracene-d12	125 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.18
Acenaphthylene	<0.046
Acenaphthene	1.1
Fluorene	1.5
Phenanthrene	9.9
Anthracene	3.1
Fluoranthene	12
Pyrene	11
Benz(a)anthracene	7.6
Chrysene	8.4
Benzo(a)pyrene	4.1
Benzo(b)fluoranthene	6.6
Benzo(k)fluoranthene	2.0
Indeno(1,2,3-cd)pyrene	1.8
Dibenz(a,h)anthracene	0.68
Benzo(g,h,i)perylene	1.6

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-14D-10.0'	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	306269-14 1/400
Date Analyzed:	06/25/13	Data File:	062518.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	1088 ds	50	150
Benzo(a)anthracene-d12	204 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	3.4
Acenaphthylene	0.065
Acenaphthene	2.4
Fluorene	2.2
Phenanthrene	4.8
Anthracene	0.99
Fluoranthene	3.2
Pyrene	2.7
Benz(a)anthracene	0.97
Chrysene	1.3
Benzo(a)pyrene	0.80
Benzo(b)fluoranthene	1.1
Benzo(k)fluoranthene	0.37
Indeno(1,2,3-cd)pyrene	0.56
Dibenz(a,h)anthracene	<0.14
Benzo(g,h,i)perylene	0.56

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-14D-15.0'	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306269-16
Date Analyzed:	07/10/13	Data File:	071012.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	83	50	150
Benzo(a)anthracene-d12	110	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.00088
Acenaphthene	0.0049
Fluorene	0.0055
Phenanthrene	0.036
Anthracene	0.0081
Fluoranthene	0.045
Pyrene	0.041
Benz(a)anthracene	0.023
Chrysene	0.027
Benzo(a)pyrene	0.011
Benzo(b)fluoranthene	0.019
Benzo(k)fluoranthene	0.0063
Indeno(1,2,3-cd)pyrene	0.0069
Dibenz(a,h)anthracene	0.0023
Benzo(g,h,i)perylene	0.0055

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-14D-25.0'	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley 101.00205.00019
Date Extracted:	07/22/13	Lab ID:	306269-18
Date Analyzed:	07/23/13	Data File:	072316.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	73	50	150
Benzo(a)anthracene-d12	104	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.0010
Benz(a)anthracene	0.0082
Chrysene	0.010
Benzo(a)pyrene	0.0042
Benzo(b)fluoranthene	0.0077
Benzo(k)fluoranthene	0.0022
Indeno(1,2,3-cd)pyrene	0.0023
Dibenz(a,h)anthracene	0.00090

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-14D-35.0'	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley 101.00205.00019
Date Extracted:	07/22/13	Lab ID:	306269-20
Date Analyzed:	07/24/13	Data File:	072317.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	80	50	150
Benzo(a)anthracene-d12	102	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.00022
Benz(a)anthracene	0.00050
Chrysene	0.00060
Benzo(a)pyrene	<0.00022
Benzo(b)fluoranthene	0.00033
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	<0.00062

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-14D-50.0'	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306269-23
Date Analyzed:	07/09/13	Data File:	070928.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	87	50	150
Benzo(a)anthracene-d12	94	35	159

Compounds:	Concentration mg/kg (ppm)
Benz(a)anthracene	0.00021

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley 101.00205.00019
Date Extracted:	07/22/13	Lab ID:	03-1431 mb
Date Analyzed:	07/23/13	Data File:	072305.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	77	50	150
Benzo(a)anthracene-d12	105	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.00022
Acenaphthylene	<0.000091
Acenaphthene	<0.00014
Fluorene	<0.00015
Phenanthrene	<0.00032
Anthracene	<0.000088
Fluoranthene	<0.00028
Pyrene	<0.00026
Benz(a)anthracene	<0.00018
Chrysene	<0.00019
Benzo(a)pyrene	<0.00022
Benzo(b)fluoranthene	<0.00018
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	<0.00062
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	<0.00034

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	03-1239 mb
Date Analyzed:	07/05/13	Data File:	070514.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	82	50	150
Benzo(a)anthracene-d12	98	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.00022
Acenaphthylene	<0.000091
Acenaphthene	<0.00014
Fluorene	<0.00015
Phenanthrene	<0.00032
Anthracene	<0.000088
Fluoranthene	<0.00028
Pyrene	<0.00026
Benz(a)anthracene	<0.00018
Chrysene	<0.00019
Benzo(a)pyrene	<0.00022
Benzo(b)fluoranthene	<0.00018
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	<0.00062
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	<0.00034

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	03-1235 mb
Date Analyzed:	06/25/13	Data File:	062506B.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	82	50	150
Benzo(a)anthracene-d12	84	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.00022
Acenaphthylene	<0.000091
Acenaphthene	<0.00014
Fluorene	<0.00015
Phenanthrene	<0.00032
Anthracene	<0.000088
Fluoranthene	<0.00028
Pyrene	<0.00026
Benz(a)anthracene	<0.00018
Chrysene	<0.00019
Benzo(a)pyrene	<0.00022
Benzo(b)fluoranthene	<0.00018
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	<0.00062
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	<0.00034

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	03-1296 mb
Date Analyzed:	07/09/13	Data File:	070915.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	92	50	150
Benzo(a)anthracene-d12	105	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.00022
Acenaphthylene	<0.000091
Acenaphthene	<0.00014
Fluorene	<0.00015
Phenanthrene	<0.00032
Anthracene	<0.000088
Fluoranthene	<0.00028
Pyrene	<0.00026
Benz(a)anthracene	<0.00018
Chrysene	<0.00019
Benzo(a)pyrene	<0.00022
Benzo(b)fluoranthene	<0.00018
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	<0.00062
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	<0.00034

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-4D-2.5'	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/26/13	Lab ID:	306269-01
Date Analyzed:	07/02/13	Data File:	42.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	75	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-4D-5.0'	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/26/13	Lab ID:	306269-02
Date Analyzed:	07/02/13	Data File:	44.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	80	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-4D-7.5'	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/26/13	Lab ID:	306269-03
Date Analyzed:	07/02/13	Data File:	46.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	76	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-14D-1.0'	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/26/13	Lab ID:	306269-10
Date Analyzed:	07/02/13	Data File:	48.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	85	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-14D-5.0'	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/26/13	Lab ID:	306269-12 1/5
Date Analyzed:	07/02/13	Data File:	52.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	80 ds	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.17
Aroclor 1232	<0.17
Aroclor 1016	<0.17
Aroclor 1242	<0.17
Aroclor 1248	<0.17
Aroclor 1254	<0.17
Aroclor 1260	<0.17

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-14D-10.0'	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/26/13	Lab ID:	306269-14 1/5
Date Analyzed:	07/09/13	Data File:	22.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	60 ds	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.17
Aroclor 1232	<0.17
Aroclor 1016	<0.17
Aroclor 1242	<0.17
Aroclor 1248	<0.17
Aroclor 1254	<0.17
Aroclor 1260	<0.17

Analysis For PCBs By EPA Method 8082

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley 101.00205.00019
Date Extracted:	06/26/13	Lab ID:	03-1245 mb
Date Analyzed:	07/02/13	Data File:	10.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	88	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-4D-2.5'	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/21/13	Lab ID:	306269-01
Date Analyzed:	06/24/13	Data File:	306269-01.031
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	96	60	125
Indium	87	60	125
Holmium	95	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.134
Chromium	12.4
Nickel	22.1
Copper	8.39
Zinc	16.5
Arsenic	1.62
Selenium	<0.912
Silver	<0.0784
Cadmium	<0.204
Antimony	0.144
Barium	25.7
Thallium	<0.0434
Lead	1.69

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-4D-5.0'	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/21/13	Lab ID:	306269-02
Date Analyzed:	06/24/13	Data File:	306269-02.032
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	94	60	125
Indium	86	60	125
Holmium	94	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.125
Chromium	13.5
Nickel	24.2
Copper	8.78
Zinc	17.7
Arsenic	1.67
Selenium	<0.912
Silver	<0.0784
Cadmium	<0.204
Antimony	<0.106
Barium	28.2
Thallium	<0.0434
Lead	1.76

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-4D-7.5'	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/21/13	Lab ID:	306269-03
Date Analyzed:	06/24/13	Data File:	306269-03.033
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	97	60	125
Indium	87	60	125
Holmium	95	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.142
Chromium	11.3
Nickel	18.0
Copper	11.3
Zinc	20.3
Arsenic	3.17
Selenium	<0.912
Silver	<0.0784
Cadmium	<0.204
Antimony	0.382
Barium	35.1
Thallium	<0.0434
Lead	2.26

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-14D-1.0'	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/21/13	Lab ID:	306269-10
Date Analyzed:	06/24/13	Data File:	306269-10.034
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	98	60	125
Indium	88	60	125
Holmium	95	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.182
Chromium	10.2
Nickel	17.4
Copper	14.4
Zinc	20.2
Arsenic	2.54
Selenium	<0.912
Silver	<0.0784
Cadmium	<0.204
Antimony	0.128
Barium	37.6
Thallium	<0.0434
Lead	2.41

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-14D-5.0'	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/21/13	Lab ID:	306269-12
Date Analyzed:	06/24/13	Data File:	306269-12.035
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	106	60	125
Indium	93	60	125
Holmium	96	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.191
Chromium	17.4
Nickel	20.0
Copper	93.7
Zinc	351
Arsenic	143
Selenium	<0.912
Silver	0.178
Cadmium	0.423
Antimony	68.8
Barium	55.4
Thallium	0.0489
Lead	113

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-14D-10.0'	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley 101.00205.00019
Date Extracted:	06/21/13	Lab ID:	306269-14
Date Analyzed:	06/24/13	Data File:	306269-14.036
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	120	60	125
Indium	118	60	125
Holmium	97	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.329
Chromium	26.2
Nickel	18.5
Copper	332
Zinc	1,470
Arsenic	479
Selenium	<0.912
Silver	0.600
Cadmium	0.966
Antimony	257
Barium	66.8
Thallium	0.151
Lead	490

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-14D-15.0'	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306269-16
Date Analyzed:	07/03/13	Data File:	306269-16.042
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	97	60	125
Indium	87	60	125
Holmium	90	60	125

Analyte:	Concentration mg/kg (ppm)
Copper	8.12
Zinc	21.8
Arsenic	1.23
Silver	<0.0784
Antimony	0.751
Barium	14.8
Thallium	<0.0434 j
Lead	1.15

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley 101.00205.00019
Date Extracted:	06/21/13	Lab ID:	I3-362 mb
Date Analyzed:	06/24/13	Data File:	I3-362 mb.014
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	93	60	125
Indium	92	60	125
Holmium	97	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	<0.086
Chromium	<0.47
Nickel	<0.206
Copper	<0.375 j
Zinc	<0.97
Arsenic	<0.422
Selenium	<0.912
Silver	<0.079
Cadmium	<0.204
Antimony	<0.106
Barium	<0.0524 j
Thallium	<0.0434
Lead	<0.0496 j

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	I3-391 mb
Date Analyzed:	07/03/13	Data File:	I3-391 mb.020
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	95	60	125
Indium	92	60	125
Holmium	94	60	125

Analyte:	Concentration mg/kg (ppm)
Copper	<0.071 j
Zinc	<0.97
Arsenic	<0.422
Silver	<0.079
Antimony	<0.106
Barium	<0.0524
Thallium	<0.0434 j
Lead	<0.0496

Date of Report: 07/26/13
Date Received: 06/17/13
Project: Crowley 8th Avenue Terminals 101.00205.00019, F&BI 306269
Date Extracted: 06/21/13 and 07/01/13
Date Analyzed: 06/24/13 and 07/03/13

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Total Mercury
EMW-4D-2.5' 306269-01	0.013
EMW-4D-5.0' 306269-02	0.013
EMW-4D-7.5' 306269-03	0.021
EMW-14D-1.0' 306269-10	0.027
EMW-14D-5.0' 306269-12	0.055
EMW-14D-10.0' 306269-14	0.073
EMW-14D-15.0' 306269-16	0.0073
Method Blank	<0.002
Method Blank	<0.002

Date of Report: 07/26/13
Date Received: 06/17/13
Project: Crowley 8th Avenue Terminals 101.00205.00019, F&BI 306269

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 306191-04 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	500	26	96	107	64-133	11

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	500	123	58-147

Date of Report: 07/26/13
Date Received: 06/17/13
Project: Crowley 8th Avenue Terminals 101.00205.00019, F&BI 306269

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 306269-03 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	mg/kg (ppm)	2.5	<0.02	27	28	10-56	4
Chloromethane	mg/kg (ppm)	2.5	<0.026	56	59	10-90	5
Vinyl chloride	mg/kg (ppm)	2.5	<0.016	58	61	10-91	5
Bromomethane	mg/kg (ppm)	2.5	<0.034	82	90	10-110	9
Chloroethane	mg/kg (ppm)	2.5	<0.024	79	76	10-101	4
Trichlorofluoromethane	mg/kg (ppm)	2.5	<0.02	70	71	10-95	1
Acetone	mg/kg (ppm)	12.5	<0.2	90	99	11-141	10
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.026	63	79	11-103	23 vo
Methylene chloride	mg/kg (ppm)	2.5	<0.054	99	98	14-128	1
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2.5	<0.013	97	103	17-134	6
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.024	86	89	13-112	3
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.017	88	91	23-115	3
2,2-Dichloropropane	mg/kg (ppm)	2.5	<0.026	91	100	18-117	9
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.022	91	92	25-120	1
Chloroform	mg/kg (ppm)	2.5	<0.017	91	93	29-117	2
2-Butanone (MEK)	mg/kg (ppm)	12.5	<0.14	98	105	20-133	7
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.016	91	94	22-124	3
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.022	94	100	27-112	6
1,1-Dichloropropene	mg/kg (ppm)	2.5	<0.024	87	91	26-107	4
Carbon tetrachloride	mg/kg (ppm)	2.5	<0.03	102	110	22-115	8
Benzene	mg/kg (ppm)	2.5	<0.014	88	91	26-114	3
Trichloroethene	mg/kg (ppm)	2.5	<0.034	91	93	30-112	2
1,2-Dichloropropane	mg/kg (ppm)	2.5	<0.034	94	98	31-119	4
Bromodichloromethane	mg/kg (ppm)	2.5	<0.024	100	105	31-131	5
Dibromomethane	mg/kg (ppm)	2.5	<0.022	97	101	27-124	4
4-Methyl-2-pentanone	mg/kg (ppm)	12.5	<0.14	103	109	16-147	6
cis-1,3-Dichloropropene	mg/kg (ppm)	2.5	<0.022	106	116	28-137	9
Toluene	mg/kg (ppm)	2.5	<0.017	89	90	34-112	1
trans-1,3-Dichloropropene	mg/kg (ppm)	2.5	<0.015	96	104	30-136	8
1,1,2-Trichloroethane	mg/kg (ppm)	2.5	<0.014	96	99	32-126	3
2-Hexanone	mg/kg (ppm)	12.5	<0.096	104	110	17-147	6
1,3-Dichloropropane	mg/kg (ppm)	2.5	<0.02	95	98	29-125	3
Tetrachloroethene	mg/kg (ppm)	2.5	<0.026	90	91	27-110	1
Dibromochloromethane	mg/kg (ppm)	2.5	<0.026	100	105	32-143	5
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2.5	<0.03	113	120	32-126	6
Chlorobenzene	mg/kg (ppm)	2.5	<0.014	91	93	37-113	2
Ethylbenzene	mg/kg (ppm)	2.5	<0.013	91	92	38-111	1
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	2.5	<0.028	110	116	35-126	5
m,p-Xylene	mg/kg (ppm)	5	<0.03	93	94	38-112	1
o-Xylene	mg/kg (ppm)	2.5	<0.034	91	93	38-113	2
Styrene	mg/kg (ppm)	2.5	<0.022	95	96	38-118	1
Isopropylbenzene	mg/kg (ppm)	2.5	<0.019	92	93	37-114	1
Bromoform	mg/kg (ppm)	2.5	<0.034	102	106	18-155	4
n-Propylbenzene	mg/kg (ppm)	2.5	<0.017	95	96	36-114	1
Bromobenzene	mg/kg (ppm)	2.5	<0.012	94	94	40-115	0
1,3,5-Trimethylbenzene	mg/kg (ppm)	2.5	<0.011	96	97	35-116	1
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	2.5	<0.036	102	105	33-128	3
1,2,3-Trichloropropane	mg/kg (ppm)	2.5	<0.022	95	97	33-123	2
2-Chlorotoluene	mg/kg (ppm)	2.5	<0.016	92	93	39-110	1
4-Chlorotoluene	mg/kg (ppm)	2.5	<0.019	94	95	39-111	1
tert-Butylbenzene	mg/kg (ppm)	2.5	<0.022	95	96	36-116	1
1,2,4-Trimethylbenzene	mg/kg (ppm)	2.5	<0.016	95	96	35-116	1
sec-Butylbenzene	mg/kg (ppm)	2.5	<0.015	95	96	33-118	1
p-Isopropyltoluene	mg/kg (ppm)	2.5	<0.012	95	96	32-119	1
1,3-Dichlorobenzene	mg/kg (ppm)	2.5	<0.02	93	94	38-111	1
1,4-Dichlorobenzene	mg/kg (ppm)	2.5	<0.032	92	93	39-109	1
1,2-Dichlorobenzene	mg/kg (ppm)	2.5	<0.016	91	92	40-111	1
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	2.5	<0.08	97	105	34-134	8
1,2,4-Trichlorobenzene	mg/kg (ppm)	2.5	<0.036	85	87	31-117	2
Hexachlorobutadiene	mg/kg (ppm)	2.5	<0.04	81	82	25-122	1
Naphthalene	mg/kg (ppm)	2.5	<0.024	89	94	39-120	5
1,2,3-Trichlorobenzene	mg/kg (ppm)	2.5	<0.019	79	82	35-117	4

Date of Report: 07/26/13
Date Received: 06/17/13
Project: Crowley 8th Avenue Terminals 101.00205.00019, F&BI 306269

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Dichlorodifluoromethane	mg/kg (ppm)	2.5	70	10-76
Chloromethane	mg/kg (ppm)	2.5	83	34-98
Vinyl chloride	mg/kg (ppm)	2.5	90	42-107
Bromomethane	mg/kg (ppm)	2.5	110	46-113
Chloroethane	mg/kg (ppm)	2.5	97	47-115
Trichlorofluoromethane	mg/kg (ppm)	2.5	102	53-112
Acetone	mg/kg (ppm)	12.5	103	39-147
1,1-Dichloroethene	mg/kg (ppm)	2.5	98	65-110
Methylene chloride	mg/kg (ppm)	2.5	106	62-119
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2.5	113	72-122
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	105	71-113
1,1-Dichloroethane	mg/kg (ppm)	2.5	105	76-109
2,2-Dichloropropane	mg/kg (ppm)	2.5	125	64-151
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	104	77-110
Chloroform	mg/kg (ppm)	2.5	103	78-108
2-Butanone (MEK)	mg/kg (ppm)	12.5	106	60-121
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	105	80-109
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	119 vo	72-116
1,1-Dichloropropene	mg/kg (ppm)	2.5	103	77-108
Carbon tetrachloride	mg/kg (ppm)	2.5	142 vo	67-123
Benzene	mg/kg (ppm)	2.5	101	75-107
Trichloroethene	mg/kg (ppm)	2.5	104	72-107
1,2-Dichloropropane	mg/kg (ppm)	2.5	107	78-111
Bromodichloromethane	mg/kg (ppm)	2.5	123	75-126
Dibromomethane	mg/kg (ppm)	2.5	111	80-111
4-Methyl-2-pentanone	mg/kg (ppm)	12.5	115	80-128
cis-1,3-Dichloropropene	mg/kg (ppm)	2.5	130	71-138
Toluene	mg/kg (ppm)	2.5	98	79-112
trans-1,3-Dichloropropene	mg/kg (ppm)	2.5	116	77-135
1,1,2-Trichloroethane	mg/kg (ppm)	2.5	105	84-115
2-Hexanone	mg/kg (ppm)	12.5	109	71-129
1,3-Dichloropropane	mg/kg (ppm)	2.5	103	82-113
Tetrachloroethene	mg/kg (ppm)	2.5	100	77-110
Dibromochloromethane	mg/kg (ppm)	2.5	122	64-152
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2.5	133 vo	83-116
Chlorobenzene	mg/kg (ppm)	2.5	100	82-113
Ethylbenzene	mg/kg (ppm)	2.5	100	81-114
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	2.5	138 vo	76-125
m,p-Xylene	mg/kg (ppm)	5	103	82-115
o-Xylene	mg/kg (ppm)	2.5	101	81-116
Styrene	mg/kg (ppm)	2.5	104	81-118
Isopropylbenzene	mg/kg (ppm)	2.5	102	81-117
Bromoform	mg/kg (ppm)	2.5	128	50-174
n-Propylbenzene	mg/kg (ppm)	2.5	103	82-116
Bromobenzene	mg/kg (ppm)	2.5	101	82-118
1,3,5-Trimethylbenzene	mg/kg (ppm)	2.5	105	83-120
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	2.5	112	83-125
1,2,3-Trichloropropane	mg/kg (ppm)	2.5	105	79-116
2-Chlorotoluene	mg/kg (ppm)	2.5	100	80-114
4-Chlorotoluene	mg/kg (ppm)	2.5	102	82-114
tert-Butylbenzene	mg/kg (ppm)	2.5	104	82-116
1,2,4-Trimethylbenzene	mg/kg (ppm)	2.5	104	82-116
sec-Butylbenzene	mg/kg (ppm)	2.5	104	81-123
p-Isopropyltoluene	mg/kg (ppm)	2.5	104	82-124
1,3-Dichlorobenzene	mg/kg (ppm)	2.5	101	80-118
1,4-Dichlorobenzene	mg/kg (ppm)	2.5	100	79-117
1,2-Dichlorobenzene	mg/kg (ppm)	2.5	100	80-118
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	2.5	125	71-131
1,2,4-Trichlorobenzene	mg/kg (ppm)	2.5	94	75-122
Hexachlorobutadiene	mg/kg (ppm)	2.5	92	74-130
Naphthalene	mg/kg (ppm)	2.5	101	83-128
1,2,3-Trichlorobenzene	mg/kg (ppm)	2.5	89	80-126

Date of Report: 07/26/13
Date Received: 06/17/13
Project: Crowley 8th Avenue Terminals 101.00205.00019, F&BI 306269

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270D

Laboratory Code: 306269-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Phenol	mg/kg (ppm)	1.7	<0.3	82	66	50-150	22 vo
Bis(2-chloroethyl) ether	mg/kg (ppm)	1.7	<0.03	74	90	50-150	20
2-Chlorophenol	mg/kg (ppm)	1.7	<0.3	82	63	50-150	26 vo
1,3-Dichlorobenzene	mg/kg (ppm)	1.7	<0.03	61	62	50-150	2
1,4-Dichlorobenzene	mg/kg (ppm)	1.7	<0.03	64	67	50-150	5
1,2-Dichlorobenzene	mg/kg (ppm)	1.7	<0.03	68	65	50-150	5
Benzyl alcohol	mg/kg (ppm)	1.7	<0.3	58	37 vo	50-150	44 vo
Bis(2-chloroisopropyl) ether	mg/kg (ppm)	1.7	<0.03	68	60	50-150	12
2-Methylphenol	mg/kg (ppm)	1.7	<0.3	65	46 vo	50-150	34 vo
Hexachloroethane	mg/kg (ppm)	1.7	<0.03	62	63	50-150	2
N-Nitroso-di-n-propylamine	mg/kg (ppm)	1.7	<0.03	78	59	50-150	28 vo
3-Methylphenol + 4-Methylphenol	mg/kg (ppm)	1.7	<0.6	79	58	50-150	31 vo
Nitrobenzene	mg/kg (ppm)	1.7	<0.03	76	67	50-150	13
Isophorone	mg/kg (ppm)	1.7	<0.03	76	68	50-150	11
2-Nitrophenol	mg/kg (ppm)	1.7	<0.3	86	74	50-150	15
2,4-Dimethylphenol	mg/kg (ppm)	1.7	<0.3	63	55	50-150	14
Benzoic acid	mg/kg (ppm)	2.5	<1.5	76	22 vo	50-150	110 vo
Bis(2-chloroethoxy)methane	mg/kg (ppm)	1.7	<0.03	74	67	50-150	10
2,4-Dichlorophenol	mg/kg (ppm)	1.7	<0.3	84	65	50-150	26 vo
1,2,4-Trichlorobenzene	mg/kg (ppm)	1.7	<0.03	74	71	50-150	4
Hexachlorobutadiene	mg/kg (ppm)	1.7	<0.03	71	73	50-150	3
4-Chloroaniline	mg/kg (ppm)	3.3	<3	63	53	50-150	17
4-Chloro-3-methylphenol	mg/kg (ppm)	1.7	<0.3	86	63	50-150	31 vo
2-Methylnaphthalene	mg/kg (ppm)	1.7	<0.03	75	63	50-150	17
Hexachlorocyclopentadiene	mg/kg (ppm)	1.7	<0.09	70	52	50-150	30 vo
2,4,6-Trichlorophenol	mg/kg (ppm)	1.7	<0.3	81	67	50-150	19
2,4,5-Trichlorophenol	mg/kg (ppm)	1.7	<0.3	88	74	50-150	17
2-Chloronaphthalene	mg/kg (ppm)	1.7	<0.03	78	72	50-150	8
2-Nitroaniline	mg/kg (ppm)	1.7	<0.03	87	72	50-150	19
Dimethyl phthalate	mg/kg (ppm)	1.7	<0.03	86	73	50-150	16
2,6-Dinitrotoluene	mg/kg (ppm)	1.7	<0.03	92	77	50-150	18
3-Nitroaniline	mg/kg (ppm)	3.3	<3	71	62	50-150	14
2,4-Dinitrophenol	mg/kg (ppm)	1.7	<0.9	95	38 vo	50-150	86 vo
Dibenzofuran	mg/kg (ppm)	1.7	<0.03	83	73	50-150	13
2,4-Dinitrotoluene	mg/kg (ppm)	1.7	<0.03	88	69	50-150	24 vo
4-Nitrophenol	mg/kg (ppm)	1.7	<0.9	82	68	50-150	19
Diethyl phthalate	mg/kg (ppm)	1.7	<0.03	84	73	50-150	14
4-Chlorophenyl phenyl ether	mg/kg (ppm)	1.7	<0.03	82	71	50-150	14
N-Nitrosodiphenylamine	mg/kg (ppm)	1.7	<0.03	80	72	50-150	11
4-Nitroaniline	mg/kg (ppm)	3.3	<3	77	63	50-150	20
4,6-Dinitro-2-methylphenol	mg/kg (ppm)	1.7	<0.9	98	57	50-150	53 vo
4-Bromophenyl phenyl ether	mg/kg (ppm)	1.7	<0.03	85	75	50-150	12
Hexachlorobenzene	mg/kg (ppm)	1.7	<0.03	82	73	50-150	12
Pentachlorophenol	mg/kg (ppm)	1.7	<0.3	88	59	50-150	39 vo
Carbazole	mg/kg (ppm)	1.7	<0.03	84	75	50-150	11
Di-n-butyl phthalate	mg/kg (ppm)	1.7	<0.03	87	80	50-150	8
Benzyl butyl phthalate	mg/kg (ppm)	1.7	<0.03	93	83	50-150	11
Bis(2-ethylhexyl) phthalate	mg/kg (ppm)	1.7	<0.48	86	81	50-150	6
Di-n-octyl phthalate	mg/kg (ppm)	1.7	<0.03	92	87	50-150	6

Date of Report: 07/26/13
Date Received: 06/17/13
Project: Crowley 8th Avenue Terminals 101.00205.00019, F&BI 306269

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270D

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Phenol	mg/kg (ppm)	1.7	83	83	51-119	0
Bis(2-chloroethyl) ether	mg/kg (ppm)	1.7	83	82	60-112	1
2-Chlorophenol	mg/kg (ppm)	1.7	88	90	59-114	2
1,3-Dichlorobenzene	mg/kg (ppm)	1.7	85	87	62-113	2
1,4-Dichlorobenzene	mg/kg (ppm)	1.7	87	89	61-114	2
1,2-Dichlorobenzene	mg/kg (ppm)	1.7	87	89	61-113	2
Benzyl alcohol	mg/kg (ppm)	1.7	86	86	50-119	0
Bis(2-chloroisopropyl) ether	mg/kg (ppm)	1.7	77	81	59-113	5
2-Methylphenol	mg/kg (ppm)	1.7	85	82	58-115	4
Hexachloroethane	mg/kg (ppm)	1.7	85	88	63-114	3
N-Nitroso-di-n-propylamine	mg/kg (ppm)	1.7	86	87	62-114	1
3-Methylphenol + 4-Methylphenol	mg/kg (ppm)	1.7	86	86	54-120	0
Nitrobenzene	mg/kg (ppm)	1.7	85	89	59-114	5
Isophorone	mg/kg (ppm)	1.7	87	92	61-113	6
2-Nitrophenol	mg/kg (ppm)	1.7	95	101	59-114	6
2,4-Dimethylphenol	mg/kg (ppm)	1.7	79	81	54-107	2
Benzoic acid	mg/kg (ppm)	2.5	105	100	43-150	5
Bis(2-chloroethoxy)methane	mg/kg (ppm)	1.7	85	91	60-114	7
2,4-Dichlorophenol	mg/kg (ppm)	1.7	91	95	57-118	4
1,2,4-Trichlorobenzene	mg/kg (ppm)	1.7	87	92	56-112	6
Hexachlorobutadiene	mg/kg (ppm)	1.7	87	94	60-116	8
4-Chloroaniline	mg/kg (ppm)	3.3	59	73	10-126	21 vo
4-Chloro-3-methylphenol	mg/kg (ppm)	1.7	93	93	59-115	0
2-Methylnaphthalene	mg/kg (ppm)	1.7	84	89	60-115	6
Hexachlorocyclopentadiene	mg/kg (ppm)	1.7	80	76	41-107	5
2,4,6-Trichlorophenol	mg/kg (ppm)	1.7	89	91	47-119	2
2,4,5-Trichlorophenol	mg/kg (ppm)	1.7	98	98	61-121	0
2-Chloronaphthalene	mg/kg (ppm)	1.7	88	92	58-114	4
2-Nitroaniline	mg/kg (ppm)	1.7	95	95	55-119	0
Dimethyl phthalate	mg/kg (ppm)	1.7	92	96	58-116	4
2,6-Dinitrotoluene	mg/kg (ppm)	1.7	101	102	57-119	1
3-Nitroaniline	mg/kg (ppm)	3.3	79	83	10-143	5
2,4-Dinitrophenol	mg/kg (ppm)	1.7	97	83	40-122	16
Dibenzofuran	mg/kg (ppm)	1.7	91	93	56-115	2
2,4-Dinitrotoluene	mg/kg (ppm)	1.7	94	95	53-126	1
4-Nitrophenol	mg/kg (ppm)	1.7	85	82	40-124	4
Diethyl phthalate	mg/kg (ppm)	1.7	91	93	57-116	2
4-Chlorophenyl phenyl ether	mg/kg (ppm)	1.7	89	92	54-119	3
N-Nitrosodiphenylamine	mg/kg (ppm)	1.7	87	91	54-113	4
4-Nitroaniline	mg/kg (ppm)	3.3	87	89	47-109	2
4,6-Dinitro-2-methylphenol	mg/kg (ppm)	1.7	99	90	57-108	10
4-Bromophenyl phenyl ether	mg/kg (ppm)	1.7	92	96	56-116	4
Hexachlorobenzene	mg/kg (ppm)	1.7	92	92	57-115	0
Pentachlorophenol	mg/kg (ppm)	1.7	90	86	45-123	5
Carbazole	mg/kg (ppm)	1.7	90	90	57-116	0
Di-n-butyl phthalate	mg/kg (ppm)	1.7	94	96	56-118	2
Benzyl butyl phthalate	mg/kg (ppm)	1.7	97	101	56-122	4
Bis(2-ethylhexyl) phthalate	mg/kg (ppm)	1.7	93	96	56-125	3
Di-n-octyl phthalate	mg/kg (ppm)	1.7	99	103	58-120	4

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270D

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Phenol	mg/kg (ppm)	1.7	84	85	51-119	1
Bis(2-chloroethyl) ether	mg/kg (ppm)	1.7	80	84	60-112	5
2-Chlorophenol	mg/kg (ppm)	1.7	87	89	59-114	2
1,3-Dichlorobenzene	mg/kg (ppm)	1.7	79	84	62-113	6
1,4-Dichlorobenzene	mg/kg (ppm)	1.7	78	83	61-114	6
1,2-Dichlorobenzene	mg/kg (ppm)	1.7	81	84	61-113	4
Benzyl alcohol	mg/kg (ppm)	1.7	93	96	50-119	3
Bis(2-chloroisopropyl) ether	mg/kg (ppm)	1.7	79	84	59-113	6
2-Methylphenol	mg/kg (ppm)	1.7	84	82	58-115	2
Hexachloroethane	mg/kg (ppm)	1.7	80	85	63-114	6
N-Nitroso-di-n-propylamine	mg/kg (ppm)	1.7	97	97	62-114	0
3-Methylphenol + 4-Methylphenol	mg/kg (ppm)	1.7	88	87	54-120	1
Nitrobenzene	mg/kg (ppm)	1.7	83	89	59-114	7
Isophorone	mg/kg (ppm)	1.7	93	96	61-113	3
2-Nitrophenol	mg/kg (ppm)	1.7	94	99	59-114	5
2,4-Dimethylphenol	mg/kg (ppm)	1.7	78	50 vo	54-107	44 vo
Benzoic acid	mg/kg (ppm)	2.5	142	148	43-150	4
Bis(2-chloroethoxy)methane	mg/kg (ppm)	1.7	84	91	60-114	8
2,4-Dichlorophenol	mg/kg (ppm)	1.7	92	96	57-118	4
1,2,4-Trichlorobenzene	mg/kg (ppm)	1.7	81	88	56-112	8
Hexachlorobutadiene	mg/kg (ppm)	1.7	79	85	60-116	7
4-Chloroaniline	mg/kg (ppm)	3.3	68	66	10-126	3
4-Chloro-3-methylphenol	mg/kg (ppm)	1.7	98	97	59-115	1
2-Methylnaphthalene	mg/kg (ppm)	1.7	83	86	60-115	4
Hexachlorocyclopentadiene	mg/kg (ppm)	1.7	100	103	41-107	3
2,4,6-Trichlorophenol	mg/kg (ppm)	1.7	95	97	47-119	2
2,4,5-Trichlorophenol	mg/kg (ppm)	1.7	99	99	61-121	0
2-Chloronaphthalene	mg/kg (ppm)	1.7	85	89	58-114	5
2-Nitroaniline	mg/kg (ppm)	1.7	109	108	55-119	1
Dimethyl phthalate	mg/kg (ppm)	1.7	98	97	58-116	1
2,6-Dinitrotoluene	mg/kg (ppm)	1.7	93	93	57-119	0
3-Nitroaniline	mg/kg (ppm)	3.3	90	90	10-143	0
2,4-Dinitrophenol	mg/kg (ppm)	1.7	110	99	40-122	11
Dibenzofuran	mg/kg (ppm)	1.7	89	92	56-115	3
2,4-Dinitrotoluene	mg/kg (ppm)	1.7	97	95	53-126	2
4-Nitrophenol	mg/kg (ppm)	1.7	98	96	40-124	2
Diethyl phthalate	mg/kg (ppm)	1.7	100	96	57-116	4
4-Chlorophenyl phenyl ether	mg/kg (ppm)	1.7	88	89	54-119	1
N-Nitrosodiphenylamine	mg/kg (ppm)	1.7	90	93	54-113	3
4-Nitroaniline	mg/kg (ppm)	3.3	84	85	47-109	1
4,6-Dinitro-2-methylphenol	mg/kg (ppm)	1.7	104	102	57-108	2
4-Bromophenyl phenyl ether	mg/kg (ppm)	1.7	91	96	56-116	5
Hexachlorobenzene	mg/kg (ppm)	1.7	90	93	57-115	3
Pentachlorophenol	mg/kg (ppm)	1.7	100	104	45-123	4
Carbazole	mg/kg (ppm)	1.7	88	93	57-116	6
Di-n-butyl phthalate	mg/kg (ppm)	1.7	98	108	56-118	10
Benzyl butyl phthalate	mg/kg (ppm)	1.7	102	105	56-122	3
Bis(2-ethylhexyl) phthalate	mg/kg (ppm)	1.7	105	109	56-125	4
Di-n-octyl phthalate	mg/kg (ppm)	1.7	102	108	58-120	6

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270D

Laboratory Code: 306316-17 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20
Phenol	mg/kg (ppm)	1.7	<0.0054	62	68	50-150	9
Bis(2-chloroethyl) ether	mg/kg (ppm)	1.7	<0.0016	56	62	50-150	10
2-Chlorophenol	mg/kg (ppm)	1.7	<0.0062	61	67	50-150	9
1,3-Dichlorobenzene	mg/kg (ppm)	1.7	<0.0026	47 vo	58	50-150	21 vo
1,4-Dichlorobenzene	mg/kg (ppm)	1.7	<0.0024	48 vo	58	50-150	19
1,2-Dichlorobenzene	mg/kg (ppm)	1.7	<0.004	51	59	50-150	15
Benzyl alcohol	mg/kg (ppm)	1.7	<0.005	62	67	50-150	8
Bis(2-chloroisopropyl) ether	mg/kg (ppm)	1.7	<0.0016	54	61	50-150	12
2-Methylphenol	mg/kg (ppm)	1.7	<0.0064	64	69	50-150	8
Hexachloroethane	mg/kg (ppm)	1.7	<0.0034	37 vo	39 vo	50-150	5
N-Nitroso-di-n-propylamine	mg/kg (ppm)	1.7	<0.003	62	63	50-150	2
3-Methylphenol + 4-Methylphenol	mg/kg (ppm)	1.7	<0.014	63	67	50-150	6
Nitrobenzene	mg/kg (ppm)	1.7	<0.0026	57	62	50-150	8
Isophorone	mg/kg (ppm)	1.7	<0.0012	62	67	50-150	8
2-Nitrophenol	mg/kg (ppm)	1.7	<0.0082	63	68	50-150	8
2,4-Dimethylphenol	mg/kg (ppm)	1.7	<0.019	62	68	50-150	9
Benzoic acid	mg/kg (ppm)	2.5	<0.055	51	58	50-150	13
Bis(2-chloroethoxy)methane	mg/kg (ppm)	1.7	<0.0014	58	63	50-150	8
2,4-Dichlorophenol	mg/kg (ppm)	1.7	<0.0058	65	72	50-150	10
1,2,4-Trichlorobenzene	mg/kg (ppm)	1.7	<0.0034	57	65	50-150	13
Hexachlorobutadiene	mg/kg (ppm)	1.7	<0.002	56	64	50-150	13
4-Chloroaniline	mg/kg (ppm)	3.3	<0.18	28 vo	39 vo	50-150	33 vo
4-Chloro-3-methylphenol	mg/kg (ppm)	1.7	<0.0044	69	78	50-150	12
2-Methylnaphthalene	mg/kg (ppm)	1.7	<0.001	59	65	50-150	10
Hexachlorocyclopentadiene	mg/kg (ppm)	1.7	<0.0022	7 vo	2 vo	50-150	111 vo
2,4,6-Trichlorophenol	mg/kg (ppm)	1.7	<0.008	68	73	50-150	7
2,4,5-Trichlorophenol	mg/kg (ppm)	1.7	<0.0096	71	77	50-150	8
2-Chloronaphthalene	mg/kg (ppm)	1.7	<0.0014	63	67	50-150	6
2-Nitroaniline	mg/kg (ppm)	1.7	<0.0026	68	76	50-150	11
Dimethyl phthalate	mg/kg (ppm)	1.7	<0.0012	69	76	50-150	10
2,6-Dinitrotoluene	mg/kg (ppm)	1.7	<0.014	72	79	50-150	9
3-Nitroaniline	mg/kg (ppm)	3.3	<0.001	35 vo	46 vo	50-150	27 vo
2,4-Dinitrophenol	mg/kg (ppm)	1.7	<0.018	34 vo	19 vo	50-150	57 vo
Dibenzofuran	mg/kg (ppm)	1.7	<0.004	66	72	50-150	9
2,4-Dinitrotoluene	mg/kg (ppm)	1.7	<0.0012	76	81	50-150	6
4-Nitrophenol	mg/kg (ppm)	1.7	<0.0016	58	66	50-150	13
Diethyl phthalate	mg/kg (ppm)	1.7	<0.001	70	76	50-150	8
4-Chlorophenyl phenyl ether	mg/kg (ppm)	1.7	<0.018	65	73	50-150	12
N-Nitrosodiphenylamine	mg/kg (ppm)	1.7	<0.0016	68	73	50-150	7
4-Nitroaniline	mg/kg (ppm)	3.3	<0.001	41 vo	54	50-150	27 vo
4,6-Dinitro-2-methylphenol	mg/kg (ppm)	1.7	<0.0062	41 vo	25 vo	50-150	48 vo
4-Bromophenyl phenyl ether	mg/kg (ppm)	1.7	0.0021	72	78	50-150	8
Hexachlorobenzene	mg/kg (ppm)	1.7	<0.0012	72	77	50-150	7
Pentachlorophenol	mg/kg (ppm)	1.7	<0.002	74	75	50-150	1
Carbazole	mg/kg (ppm)	1.7	<0.0000000	68	66	50-150	3
Di-n-butyl phthalate	mg/kg (ppm)	1.7	0.0037	68	70	50-150	3
Benzyl butyl phthalate	mg/kg (ppm)	1.7	0.0013	85	87	50-150	2
Bis(2-ethylhexyl) phthalate	mg/kg (ppm)	1.7	0.0017	81	84	50-150	4
Di-n-octyl phthalate	mg/kg (ppm)	1.7	<0.001	82	91	50-150	10

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270D

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Phenol	mg/kg (ppm)	1.7	78	82	51-119	5
Bis(2-chloroethyl) ether	mg/kg (ppm)	1.7	77	79	60-112	3
2-Chlorophenol	mg/kg (ppm)	1.7	80	82	59-114	2
1,3-Dichlorobenzene	mg/kg (ppm)	1.7	77	76	62-113	1
1,4-Dichlorobenzene	mg/kg (ppm)	1.7	77	76	61-114	1
1,2-Dichlorobenzene	mg/kg (ppm)	1.7	78	77	61-113	1
Benzyl alcohol	mg/kg (ppm)	1.7	82	86	50-119	5
Bis(2-chloroisopropyl) ether	mg/kg (ppm)	1.7	75	76	59-113	1
2-Methylphenol	mg/kg (ppm)	1.7	79	80	58-115	1
Hexachloroethane	mg/kg (ppm)	1.7	75	73	63-114	3
N-Nitroso-di-n-propylamine	mg/kg (ppm)	1.7	81	86	62-114	6
3-Methylphenol + 4-Methylphenol	mg/kg (ppm)	1.7	80	81	54-120	1
Nitrobenzene	mg/kg (ppm)	1.7	77	80	59-114	4
Isophorone	mg/kg (ppm)	1.7	81	83	61-113	2
2-Nitrophenol	mg/kg (ppm)	1.7	85	89	59-114	5
2,4-Dimethylphenol	mg/kg (ppm)	1.7	64	59	54-107	8
Benzoic acid	mg/kg (ppm)	2.5	95	103	43-150	8
Bis(2-chloroethoxy)methane	mg/kg (ppm)	1.7	78	80	60-114	3
2,4-Dichlorophenol	mg/kg (ppm)	1.7	84	86	57-118	2
1,2,4-Trichlorobenzene	mg/kg (ppm)	1.7	79	81	56-112	2
Hexachlorobutadiene	mg/kg (ppm)	1.7	80	81	60-116	1
4-Chloroaniline	mg/kg (ppm)	3.3	52	61	10-126	16
4-Chloro-3-methylphenol	mg/kg (ppm)	1.7	84	88	59-115	5
2-Methylnaphthalene	mg/kg (ppm)	1.7	78	80	60-115	3
Hexachlorocyclopentadiene	mg/kg (ppm)	1.7	92	93	41-107	1
2,4,6-Trichlorophenol	mg/kg (ppm)	1.7	87	94	47-119	8
2,4,5-Trichlorophenol	mg/kg (ppm)	1.7	87	88	61-121	1
2-Chloronaphthalene	mg/kg (ppm)	1.7	84	87	58-114	4
2-Nitroaniline	mg/kg (ppm)	1.7	90	92	55-119	2
Dimethyl phthalate	mg/kg (ppm)	1.7	88	91	58-116	3
2,6-Dinitrotoluene	mg/kg (ppm)	1.7	92	95	57-119	3
3-Nitroaniline	mg/kg (ppm)	3.3	76	77	10-143	1
2,4-Dinitrophenol	mg/kg (ppm)	1.7	59	75	40-122	24 vo
Dibenzofuran	mg/kg (ppm)	1.7	83	86	56-115	4
2,4-Dinitrotoluene	mg/kg (ppm)	1.7	95	98	53-126	3
4-Nitrophenol	mg/kg (ppm)	1.7	87	90	40-124	3
Diethyl phthalate	mg/kg (ppm)	1.7	87	89	57-116	2
4-Chlorophenyl phenyl ether	mg/kg (ppm)	1.7	84	86	54-119	2
N-Nitrosodiphenylamine	mg/kg (ppm)	1.7	81	83	54-113	2
4-Nitroaniline	mg/kg (ppm)	3.3	85	92	47-109	8
4,6-Dinitro-2-methylphenol	mg/kg (ppm)	1.7	61	73	57-108	18
4-Bromophenyl phenyl ether	mg/kg (ppm)	1.7	85	87	56-116	2
Hexachlorobenzene	mg/kg (ppm)	1.7	86	88	57-115	2
Pentachlorophenol	mg/kg (ppm)	1.7	88	93	45-123	6
Carbazole	mg/kg (ppm)	1.7	82	86	57-116	5
Di-n-butyl phthalate	mg/kg (ppm)	1.7	82	81	56-118	1
Benzyl butyl phthalate	mg/kg (ppm)	1.7	95	98	56-122	3
Bis(2-ethylhexyl) phthalate	mg/kg (ppm)	1.7	91	93	56-125	2
Di-n-octyl phthalate	mg/kg (ppm)	1.7	93	92	58-120	1

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR PNA'S BY EPA METHOD 8270D SIM

Laboratory Code: 306269-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.17	<0.00022	48	68	44-129	34 vo
Acenaphthylene	mg/kg (ppm)	0.17	<0.000091	66	76	52-121	14
Acenaphthene	mg/kg (ppm)	0.17	<0.00014	64	75	51-123	16
Fluorene	mg/kg (ppm)	0.17	<0.00015	74	82	37-137	10
Phenanthrene	mg/kg (ppm)	0.17	<0.00032	70	75	45-124	7
Anthracene	mg/kg (ppm)	0.17	<0.000088	71	76	32-124	7
Fluoranthene	mg/kg (ppm)	0.17	0.00028	72	77	50-125	7
Pyrene	mg/kg (ppm)	0.17	0.00032	77	83	41-135	7
Benz(a)anthracene	mg/kg (ppm)	0.17	0.00025	70	74	23-144	6
Chrysene	mg/kg (ppm)	0.17	0.00025	73	80	45-122	9
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	0.00036	65	71	31-144	9
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	<0.00036	65	73	45-130	12
Benzo(a)pyrene	mg/kg (ppm)	0.17	0.00025	59	66	39-128	11
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	<0.00062	65	67	28-146	3
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	<0.00034	61	67	46-129	9
Benzo(g,h,i)perylene	mg/kg (ppm)	0.17	<0.00034	61	62	37-133	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.17	74	76	58-121	3
Acenaphthylene	mg/kg (ppm)	0.17	78	87	54-121	11
Acenaphthene	mg/kg (ppm)	0.17	76	86	54-123	12
Fluorene	mg/kg (ppm)	0.17	75	91	56-127	19
Phenanthrene	mg/kg (ppm)	0.17	84	88	55-122	5
Anthracene	mg/kg (ppm)	0.17	81	86	50-120	6
Fluoranthene	mg/kg (ppm)	0.17	80	97	54-129	19
Pyrene	mg/kg (ppm)	0.17	97	96	53-127	1
Benz(a)anthracene	mg/kg (ppm)	0.17	82	89	51-115	8
Chrysene	mg/kg (ppm)	0.17	92	94	55-129	2
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	83	90	56-123	8
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	81	81	54-131	0
Benzo(a)pyrene	mg/kg (ppm)	0.17	68	74	51-118	8
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	77	85	49-148	10
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	75	81	50-141	8
Benzo(g,h,i)perylene	mg/kg (ppm)	0.17	73	79	52-131	8

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR PNA'S BY EPA METHOD 8270D SIM

Laboratory Code: 306270-10 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.17	0.00023	71	74	44-129	4
Acenaphthylene	mg/kg (ppm)	0.17	<0.000091	76	78	52-121	3
Acenaphthene	mg/kg (ppm)	0.17	<0.00014	75	77	51-123	3
Fluorene	mg/kg (ppm)	0.17	<0.00015	79	81	37-137	2
Phenanthrene	mg/kg (ppm)	0.17	0.00085	76	77	45-124	1
Anthracene	mg/kg (ppm)	0.17	<0.000088	78	78	32-124	0
Fluoranthene	mg/kg (ppm)	0.17	<0.00028	77	78	50-125	1
Pyrene	mg/kg (ppm)	0.17	<0.00026	84	89	41-135	6
Benz(a)anthracene	mg/kg (ppm)	0.17	0.00027	78	79	23-144	1
Chrysene	mg/kg (ppm)	0.17	0.00026	82	83	45-122	1
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	0.00020	72	77	31-144	7
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	<0.00036	70	68	45-130	3
Benzo(a)pyrene	mg/kg (ppm)	0.17	<0.00022	76	77	39-128	1
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	<0.00062	82	80	28-146	2
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	<0.00034	77	76	46-129	1
Benzo(g,h,i)perylene	mg/kg (ppm)	0.17	<0.00034	73	70	37-133	4

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.17	87	82	58-121	6
Acenaphthylene	mg/kg (ppm)	0.17	90	88	54-121	2
Acenaphthene	mg/kg (ppm)	0.17	89	87	54-123	2
Fluorene	mg/kg (ppm)	0.17	90	90	56-127	0
Phenanthrene	mg/kg (ppm)	0.17	90	90	55-122	0
Anthracene	mg/kg (ppm)	0.17	85	86	50-120	1
Fluoranthene	mg/kg (ppm)	0.17	92	95	54-129	3
Pyrene	mg/kg (ppm)	0.17	94	95	53-127	1
Benz(a)anthracene	mg/kg (ppm)	0.17	91	92	51-115	1
Chrysene	mg/kg (ppm)	0.17	93	96	55-129	3
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	88 J	90	56-123	2
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	83 J	82	54-131	1
Benzo(a)pyrene	mg/kg (ppm)	0.17	83 J	82	51-118	1
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	99 J	100	49-148	1
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	90 J	91	50-141	1
Benzo(g,h,i)perylene	mg/kg (ppm)	0.17	85 J	87	52-131	2

Date of Report: 07/26/13
Date Received: 06/17/13
Project: Crowley 8th Avenue Terminals 101.00205.00019, F&BI 306269

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR PNA'S BY EPA METHOD 8270D SIM

Laboratory Code: 306316-01 1/10 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.17	<0.0022	150 vo	110	44-129	31 vo
Acenaphthylene	mg/kg (ppm)	0.17	0.010	240 vo	240 vo	52-121	0
Acenaphthene	mg/kg (ppm)	0.17	0.011	250 vo	200 vo	51-123	22 vo
Fluorene	mg/kg (ppm)	0.17	0.0099	190 vo	170 vo	37-137	11
Phenanthrene	mg/kg (ppm)	0.17	0.092	1900 b	1600 b	45-124	17 b
Anthracene	mg/kg (ppm)	0.17	0.024	530 vo	490 vo	32-124	8
Fluoranthene	mg/kg (ppm)	0.17	0.20	5300 b	3700 b	50-125	36 b
Pyrene	mg/kg (ppm)	0.17	0.21	5900 b	4000 b	41-135	38 b
Benz(a)anthracene	mg/kg (ppm)	0.17	0.12	3300 b	2300 b	23-144	36 b
Chrysene	mg/kg (ppm)	0.17	0.17	4100 b	3200 b	45-122	25 b
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	0.26	4900 b	3800 b	31-144	25 b
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	0.075	1900 b	1200 b	45-130	45 b
Benzo(a)pyrene	mg/kg (ppm)	0.17	0.20	4100 b	3000 b	39-128	31 b
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	0.19	4000 b	3100 b	28-146	25 b
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	0.037	790 b	700 b	46-129	12 b
Benzo(g,h,i)perylene	mg/kg (ppm)	0.17	0.16	3300 b	2500 b	37-133	28 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.17	82	83	58-121	1
Acenaphthylene	mg/kg (ppm)	0.17	91	92	54-121	1
Acenaphthene	mg/kg (ppm)	0.17	90	91	54-123	1
Fluorene	mg/kg (ppm)	0.17	93	94	56-127	1
Phenanthrene	mg/kg (ppm)	0.17	90	91	55-122	1
Anthracene	mg/kg (ppm)	0.17	86	86	50-120	0
Fluoranthene	mg/kg (ppm)	0.17	81	95	54-129	16
Pyrene	mg/kg (ppm)	0.17	96	97	53-127	1
Benz(a)anthracene	mg/kg (ppm)	0.17	92	93	51-115	1
Chrysene	mg/kg (ppm)	0.17	97	96	55-129	1
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	88	94	56-123	7
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	86	86	54-131	0
Benzo(a)pyrene	mg/kg (ppm)	0.17	82	83	51-118	1
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	103	103	49-148	0
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	92	94	50-141	2
Benzo(g,h,i)perylene	mg/kg (ppm)	0.17	89	89	52-131	0

Date of Report: 07/26/13
Date Received: 06/17/13
Project: Crowley 8th Avenue Terminals 101.00205.00019, F&BI 306269

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR PNA'S BY EPA METHOD 8270D SIM

Laboratory Code: 306316-23 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.17	<0.00022	74	66	44-129	11
Acenaphthylene	mg/kg (ppm)	0.17	<0.000091	84	76	52-121	10
Acenaphthene	mg/kg (ppm)	0.17	0.0017	190 vo	98	51-123	64 vo
Fluorene	mg/kg (ppm)	0.17	0.0037	268 vo	88	37-137	101 vo
Phenanthrene	mg/kg (ppm)	0.17	0.017	1387 vo	124	45-124	167 vo
Anthracene	mg/kg (ppm)	0.17	0.0018	264 vo	78	32-124	109 vo
Fluoranthene	mg/kg (ppm)	0.17	0.0070	1165 vo	119	50-125	163 vo
Pyrene	mg/kg (ppm)	0.17	0.0065	1242 vo	127	41-135	163 vo
Benz(a)anthracene	mg/kg (ppm)	0.17	0.0017	410 vo	83	23-144	133 vo
Chrysene	mg/kg (ppm)	0.17	0.0014	308 vo	87	45-122	112 vo
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	0.0013	351 vo	80	31-144	126 vo
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	0.00042	142 vo	75	45-130	62 vo
Benzo(a)pyrene	mg/kg (ppm)	0.17	0.00097	268 vo	75	39-128	113 vo
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	<0.00062	169 vo	78	28-146	74 vo
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	<0.00034	87	75	46-129	15
Benzo(g,h,i)perylene	mg/kg (ppm)	0.17	0.00043	152 vo	75	37-133	68 vo

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.17	78	80	58-121	2
Acenaphthylene	mg/kg (ppm)	0.17	83	85	54-121	3
Acenaphthene	mg/kg (ppm)	0.17	81	83	54-123	3
Fluorene	mg/kg (ppm)	0.17	86	88	56-127	3
Phenanthrene	mg/kg (ppm)	0.17	84	88	55-122	5
Anthracene	mg/kg (ppm)	0.17	77	86	50-120	11
Fluoranthene	mg/kg (ppm)	0.17	81	96	54-129	16
Pyrene	mg/kg (ppm)	0.17	93	92	53-127	1
Benz(a)anthracene	mg/kg (ppm)	0.17	82	85	51-115	4
Chrysene	mg/kg (ppm)	0.17	86	92	55-129	6
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	80	88	56-123	10
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	78	80	54-131	3
Benzo(a)pyrene	mg/kg (ppm)	0.17	70	75	51-118	7
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	82	91	49-148	11
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	78	85	50-141	9
Benzo(g,h,i)perylene	mg/kg (ppm)	0.17	77	85	52-131	10

Date of Report: 07/26/13
Date Received: 06/17/13
Project: Crowley 8th Avenue Terminals 101.00205.00019, F&BI 306269

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS AS AROCLOR 1016/1260 BY EPA METHOD 8082A

Laboratory Code: 306191-19 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Control Limits	RPD (Limit 20)
Aroclor 1016	mg/kg (ppm)	0.8	<0.033	88	87	50-150	1
Aroclor 1260	mg/kg (ppm)	0.8	<0.033	117	96	50-150	20

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	Acceptance Criteria
Aroclor 1016	mg/kg (ppm)	0.8	88	70-130
Aroclor 1260	mg/kg (ppm)	0.8	91	70-130

Date of Report: 07/26/13
Date Received: 06/17/13
Project: Crowley 8th Avenue Terminals 101.00205.00019, F&BI 306269

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 306191-04 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Beryllium	mg/kg (ppm)	5	0.105	103	103	67-138	0
Chromium	mg/kg (ppm)	50	15.8	92 b	92 b	57-128	0 b
Nickel	mg/kg (ppm)	25	17.2	95 b	82 b	69-112	15 b
Copper	mg/kg (ppm)	50	9.41	87	86	57-120	1
Zinc	mg/kg (ppm)	50	16.8	89 b	92 b	55-129	3 b
Arsenic	mg/kg (ppm)	10	1.71	95	99	70-118	4
Selenium	mg/kg (ppm)	5	<0.912	88	90	64-117	2
Silver	mg/kg (ppm)	10	<0.0784	99	100	73-122	1
Cadmium	mg/kg (ppm)	10	<0.204	102	102	83-116	0
Antimony	mg/kg (ppm)	20	0.125	92	92	54-116	0
Barium	mg/kg (ppm)	50	69.6	61 b	148 b	60-141	83 b
Thallium	mg/kg (ppm)	5	<0.0434	99	98	68-121	1
Lead	mg/kg (ppm)	50	2.01	100	103	59-148	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Beryllium	mg/kg (ppm)	5	108	69-146
Chromium	mg/kg (ppm)	50	100	78-121
Nickel	mg/kg (ppm)	25	98	82-122
Copper	mg/kg (ppm)	50	97	82-119
Zinc	mg/kg (ppm)	50	93	81-120
Arsenic	mg/kg (ppm)	10	98	83-113
Selenium	mg/kg (ppm)	5	98	84-115
Silver	mg/kg (ppm)	10	100	81-116
Cadmium	mg/kg (ppm)	10	101	54-114
Antimony	mg/kg (ppm)	20	97	69-114
Barium	mg/kg (ppm)	50	100	85-116
Thallium	mg/kg (ppm)	5	99	77-123
Lead	mg/kg (ppm)	50	101	80-120

Date of Report: 07/26/13
Date Received: 06/17/13
Project: Crowley 8th Avenue Terminals 101.00205.00019, F&BI 306269

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 306244-14 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Copper	mg/kg (ppm)	50	318	80 b	21 b	57-120	117 b
Zinc	mg/kg (ppm)	50	1,170	0 b	0 b	55-129	0 b
Arsenic	mg/kg (ppm)	10	380	0 b	0 b	70-118	0 b
Silver	mg/kg (ppm)	10	0.437	68 b	66 b	73-122	3 b
Antimony	mg/kg (ppm)	20	201	0 b	0 b	54-116	0 b
Barium	mg/kg (ppm)	50	74.4	48 b	41 b	60-141	16 b
Thallium	mg/kg (ppm)	5	0.218	99 b	95 b	68-121	4 b
Lead	mg/kg (ppm)	50	457	0 b	37 b	59-148	200 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Copper	mg/kg (ppm)	50	104	82-119
Zinc	mg/kg (ppm)	50	99	81-120
Arsenic	mg/kg (ppm)	10	109	83-113
Silver	mg/kg (ppm)	10	108	81-116
Antimony	mg/kg (ppm)	20	104	69-114
Barium	mg/kg (ppm)	50	106	85-116
Thallium	mg/kg (ppm)	5	107	77-123
Lead	mg/kg (ppm)	50	108	80-120

Date of Report: 07/26/13
Date Received: 06/17/13
Project: Crowley 8th Avenue Terminals 101.00205.00019, F&BI 306269

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Laboratory Code: 306191-04 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Mercury	mg/kg (ppm)	0.125	0.014	97	99	62-140	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Mercury	mg/kg (ppm)	0.125	92	63-131

Date of Report: 07/26/13
Date Received: 06/17/13
Project: Crowley 8th Avenue Terminals 101.00205.00019, F&BI 306269

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Laboratory Code: 306244-14 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Mercury	mg/kg (ppm)	0.125	0.14	98 b	95 b	62-140	3 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Mercury	mg/kg (ppm)	0.125	87	63-131

Date of Report: 07/26/13
Date Received: 06/17/13
Project: Crowley 8th Avenue Terminals 101.00205.00019, F&BI 306269

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Laboratory Code: 306269-17 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Mercury	mg/kg (ppm)	0.125	0.0056	97	98	62-140	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Mercury	mg/kg (ppm)	0.125	82	63-131

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

306269

SAMPLE CHAIN OF CUSTODY

KJ 06-17-13 VSO/VI / DOH

Page # 1 of 3

Send Report To Mike Station

Company SLR International Corporation

Address 22118 20th Ave. SE, Ste. G202

City, State, ZIP Bothell, WA 98021

Phone # 425-402-8800 Fax #

SAMPLERS (signature)

PROJECT NAME/NO.: Crowley 8th Avenue Terminal 101.00205.00019

PO#

REMARKS: NWTPH-Dx AFTER SILICA GEL CLEANUP

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☐ RUSH
- Rush charges authorized by

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

⊗ = added per Mike Station per 6/19/13

✓ = analyze per Mike Station per 7/9/13
V = extract & hold per Mike Station per 7/1/13
⊗ = analyze per Mike Station per 7/15/13
* = analyze per Mike Station per 7/24/13

* (NIP) per client 6-18-13

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Metals (priority plus Ba)	PCBs by 8082	PAHs by 8270D SIM	Hex Cr by 7196A	Mercury by 1631E		Notes
EMW-16D-2.5'	01	6/17/13	0850	soil	10	⊗			⊗	⊗		⊗	⊗	⊗		⊗		Archive
EMW-16D-5.0'	02	6/17/13	0905	soil	10	X	X		X	X		X	X	X		X		No GRO per Mike Station
EMW-16D-7.5'	03	6/17/13	0910	soil	10	⊗			⊗	⊗		⊗	⊗	⊗		⊗		Archive
EMW-16D-12.5'	04	6/17/13	0930	soil	10									✓				Archive
EMW-16D-15.0'	05	6/17/13	0945	soil	10													Archive
EMW-16D-20.0'	06	6/17/13	1000	soil	10													Archive
EMW-16D-25.0'	07	6/17/13	1015	soil	10													Archive
EMW-16D-30.0'	08	6/17/13	1025	soil	10													Archive
EMW-16D-35.0'	09	6/17/13	1055	soil	10													Archive
EMW-14D-1.0'	10	6/17/13	1150	soil	10	X			X	X		X	X	X		X		

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Amanda Margnitz	SLR	6/17/13	1645
Received by:		DJ VJ	FYBI	"	"
Relinquished by:			Samples received at 6 °C		
Received by:					

306269

SAMPLE CHAIN OF CUSTODY KJ 06-17-13 VSA/VI/DOY

Page # 2 of 3

Send Report To Mike Station
Company SLR International Corporation
Address 22118 20th Ave. SE, Ste. B202
City, State, ZIP Bothell, WA 98021
Phone # 425-402-8800 Fax #

SAMPLERS (signature)
PROJECT NAME/NO. Crowley 8th Avenue Terminals 101.00205.00019
PO#
REMARKS NWTPH-Dx AFTER SILICA GEL CLEANUP

TURNAROUND TIME
☐ Standard (2 Weeks)
☐ RUSH
Rush charges authorized by

SAMPLE DISPOSAL
☐ Dispose after 30 days
☐ Return samples
☐ Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED: TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by8260	SVOCs by 8270	HFS	Metals (arsenic only)	PCBs	PAHs by 8270D-SIM	Hex Cr. by 7196A	Mercury by 1631E		Notes
EMW-14D-2.5'	11	6/17/13	1205	soil	10													Archive
EMW-14D-5.0'	12	6/17/13	1215	soil	10	X			X	X		X	X	X		X		~~Archive~~ AB
EMW-14D-7.5'	13	6/17/13	1230	soil	10													Archive
EMW-14D-10.0'	14	6/17/13	1240	soil	10	X			X	X		X	X	X		X		
EMW-14D-12.5'	15	6/17/13	1255	soil	10													Archive
EMW-14D-15.0'	16	6/17/13	1305	soil	10					✓		✓		✓		✓		Archive
EMW-14D-20.0'	17	6/17/13	1315	soil	10							✓						canceled per Mike S. Archive
EMW-14D-25.0'	18	6/17/13	1325	soil	10					✓				*				Archive
EMW-14D-30.0'	19	6/17/13	1335	soil	10							✓						canceled per Mike S. Archive
EMW-14D-35.0'	20	6/17/13	1350	soil	10					✓				*				Archive

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FORMS\COC\COC.DOC

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Amanda Mangiant	SLR	6/17/13	1645
Received by:		DJ VO	F+BE	"	"
Relinquished by:					
Received by:			Samples received at 6 °C		

306269

SAMPLE CHAIN OF CUSTODY

KJ 06-17-13 VSQ/VI/DOY

Page # 3 of 3

Send Report To Mike Stetson

Company SLR International Corporation

Address 22118 20th Ave. SE, Ste. G202

City, State, ZIP Bothell, WA 98021

Phone # 425-402-8800 Fax #

SAMPLERS (signature)

PROJECT NAME/NO. Crowley 8th Avenue Terminal 101.00205.00019

PO#

REMARKS NWTPH-Dx AFTER SILICA GEL CLEANUP

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☐ RUSH
- Rush charges authorized by

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED: TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Metals (Priority Pollutants)	PCBs by 8082	PAHs by 8270D SIM	Hex. Cr. by 7196A	Mercury by 1631E	Notes
EMW-14D-40.0'	21 A-J	6/17/13	1400	soil	10							✓					canceled per Mike S. Do Archive
EMW-14D-45.0'	22	6/17/13	1425	soil	10												Archive
EMW-14D-50.0'	23	6/17/13	1435	soil	10					✓				*			Archive
TripBlank	24 A-B	–	–	water	2												added at lab ✓ (NB) 6-18-13

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Amanda Mengis	SLR	6/17/13	1645
Received by:	DD RO	FedEx	"	"
Relinquished by:				
Received by:		Samples received at 5.0 °C		

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FORMS\COC\COC.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Kurt Johnson, B.S.
Eric Young, B.S.

3012 16th Avenue West
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July 26, 2013

Mike Staton
SLR International Corp.
22118 20th Ave. SE., G-202
Bothell, WA 98021

Dear Mr. Staton:

Included are the results from the testing of material submitted on June 21, 2013 from the Crowley 8th Ave Terminals, Inc. 101.00205.00030, F&BI 306365 project. There are 5 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michele Costales Poquiz

Michele Costales Poquiz
Chemist

Enclosures
SLR0726R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on June 21, 2013 by Friedman & Bruya, Inc. from the SLR International Corp. Crowley 8th Ave Terminals, Inc. 101.00205.00030, F&BI 306365 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SLR International Corp.
306365-01	EMW-15D-20.0'
306365-02	EMW-15D-25.0'

Semivolatile Organic Compounds by EPA Method 8270D SIM

Analysis of the sample EMW-15D-25.0' was requested outside of the EPA recommended holding time. The results have been flagged accordingly.

The percent recovery for the matrix spike (MS) and the relative percent difference for the MS and matrix spike duplicate (MSD) fell outside of acceptance criteria for several compounds. Based on review of the analytical data, the high variability is due to the sample matrix.

All other quality control requirements were acceptable.

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-15D-25.0'	Client:	SLR International Corp.
Date Received:	06/21/13	Project:	Crowley 8th Ave Terminals
Date Extracted:	07/22/13	Lab ID:	306365-02
Date Analyzed:	07/24/13	Data File:	072318.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	71	50	150
Benzo(a)anthracene-d12	94	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.0010
Acenaphthene	0.0017
Fluorene	0.0014
Phenanthrene	0.013
Fluoranthene	0.029
Pyrene	0.029
Benz(a)anthracene	0.016
Chrysene	0.018
Benzo(a)pyrene	0.011
Benzo(b)fluoranthene	0.016
Benzo(k)fluoranthene	0.0052
Indeno(1,2,3-cd)pyrene	0.0065
Dibenz(a,h)anthracene	0.0019
Benzo(g,h,i)perylene	0.0060

Note - Analysis performed outside the method or client-specified holding time requirement.

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	Not Applicable	Project:	Crowley 8th Ave Terminals
Date Extracted:	07/22/13	Lab ID:	03-1431 mb
Date Analyzed:	07/23/13	Data File:	072305.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	77	50	150
Benzo(a)anthracene-d12	105	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.00022
Acenaphthene	<0.00014
Fluorene	<0.00015
Phenanthrene	<0.00032
Fluoranthene	<0.00028
Pyrene	<0.00026
Benz(a)anthracene	<0.00018
Chrysene	<0.00019
Benzo(a)pyrene	<0.00022
Benzo(b)fluoranthene	<0.00018
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	<0.00062
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	<0.00034

Date of Report: 07/26/13
Date Received: 06/21/13
Project: Crowley 8th Ave Terminals, Inc. 101.00205.00030, F&BI 306365

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR PNA'S BY EPA METHOD 8270D SIM

Laboratory Code: 306316-23 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.17	<0.00022	74	66	44-129	11
Acenaphthene	mg/kg (ppm)	0.17	0.0017	190 vo	98	51-123	64 vo
Fluorene	mg/kg (ppm)	0.17	0.0037	268 vo	88	37-137	101 vo
Phenanthrene	mg/kg (ppm)	0.17	0.017	1387 vo	124	45-124	167 vo
Fluoranthene	mg/kg (ppm)	0.17	0.0070	1165 vo	119	50-125	163 vo
Pyrene	mg/kg (ppm)	0.17	0.0065	1242 vo	127	41-135	163 vo
Benz(a)anthracene	mg/kg (ppm)	0.17	0.0017	410 vo	83	23-144	133 vo
Chrysene	mg/kg (ppm)	0.17	0.0014	308 vo	87	45-122	112 vo
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	0.0013	351 vo	80	31-144	126 vo
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	0.00042	142 vo	75	45-130	62 vo
Benzo(a)pyrene	mg/kg (ppm)	0.17	0.00097	268 vo	75	39-128	113 vo
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	<0.00062	169 vo	78	28-146	74 vo
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	<0.00034	87	75	46-129	15
Benzo(g,h,i)perylene	mg/kg (ppm)	0.17	0.00043	152 vo	75	37-133	68 vo

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.17	78	80	58-121	2
Acenaphthene	mg/kg (ppm)	0.17	81	83	54-123	3
Fluorene	mg/kg (ppm)	0.17	86	88	56-127	3
Phenanthrene	mg/kg (ppm)	0.17	84	88	55-122	5
Fluoranthene	mg/kg (ppm)	0.17	81	96	54-129	16
Pyrene	mg/kg (ppm)	0.17	93	92	53-127	1
Benz(a)anthracene	mg/kg (ppm)	0.17	82	85	51-115	4
Chrysene	mg/kg (ppm)	0.17	86	92	55-129	6
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	80	88	56-123	10
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	78	80	54-131	3
Benzo(a)pyrene	mg/kg (ppm)	0.17	70	75	51-118	7
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	82	91	49-148	11
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	78	85	50-141	9
Benzo(g,h,i)perylene	mg/kg (ppm)	0.17	77	85	52-131	10

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

306365

SAMPLE CHAIN OF CUSTODY

KJ 06-21-13 BI / V8 1

Page # 1 of 1

Send Report To MIKE STATON

Company SLR INTERNATIONAL CORPORATION

Address 22118 20TH AVE SE, G-202

City, State, ZIP BOTHELL, WA 98021

Phone # (425) 402-8800 Fax # (425) 402-8488

SAMPLERS (signature)

PROJECT NAME/NO. CROWLEY 8TH AVE TERMINALS, INC 101.00205.00030

PO# 101.00205.00030

REMARKS NWTPH-Dx AFTER SILICA GEL CLEANUP

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☐ RUSH
- Rush charges authorized by

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☒ Will call with instructions

✓=added per Mike Staton GP 7/11/13

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Metals (priority pollutant & Ba)	PAHs 8270 - SIM	PCBs by 8082	Hex. Cr. by 7196A	Mercury by 1631E		Notes
EMW-15D-200'	01A-B	6/20/13	0840	SOIL	2													ARCHIVE
EMW-15D-25.0'	02A-F	↓	0850	↓	6								✓					↓

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	CHRIS LEE	SLR	6/21/13	1155
Received by:	Nhan Phan	FEBI	6/21/13	1155
Relinquished by:				
Received by:		Samples received at	1	°C

FORMS\COC\COC.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Kurt Johnson, B.S.
Eric Young, B.S.

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July 30, 2013

Mike Staton
SLR International Corp.
22118 20th Ave. SE., G-202
Bothell, WA 98021

Dear Mr. Staton:

Included are the results from the testing of material submitted on June 13, 2013 from the Crowley RIFS 101.00205.00019, F&BI 306220 project. There are 112 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michele Costales Poquiz

Michele Costales Poquiz
Chemist

Enclosures
SLR0730R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on June 13, 2013 by Friedman & Bruya, Inc. from the SLR International Corp. Crowley RIFS 101.00205.00019, F&BI 306220 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SLR International Corp.
306220-01	EMW-9S-1.0
306220-02	EMW-9S-2.5
306220-03	EMW-9S-5.0
306220-04	EMW-9S-7.5
306220-05	EMW-9S-10.0
306220-06	EMW-9S-12.5
306220-07	EMW-7S-1.0
306220-08	EMW-7S-5.0
306220-09	EMW-7S-7.5
306220-10	EMW-7S-10.0
306220-11	EMW-7S-12.5
306220-12	TB-061313
306220-13	EMW-5S-1.0
306220-14	EMW-5S-2.5
306220-15	EMW-5S-7.50
306220-16	EMW-5S-10.0
306220-17	EMW-5S-12.5
306220-18	EB-51-1.0
306220-19	EB-51-2.5
306220-20	EB-51-5.0
306220-21	EB-51-7.5
306220-22	EB-51-10.0

Total Petroleum Hydrocarbons as Gasoline by Method NWTPH-Gx

The sample EB-51-10.0 was extracted outside of the EPA recommended holding time. The result should be considered an estimate. Review of the total ion chromatogram (TIC) from the 8260C analysis generated within the EPA recommended holding time for the sample EB-51-10.0 confirms that a low level of gasoline range material is present in this sample.

Total Petroleum Hydrocarbons as Diesel and Motor Oil by Method NWTPH-Dx with Silica Gel

All quality control requirements were acceptable.

Volatile Compounds by EPA Method 8260C

The presence of methylene chloride in the sample EMW-5S-7.50 and the method blank is likely due to laboratory contamination. The results have been flagged accordingly.

CASE NARRATIVE (continued)

The samples were received with incorrect preservation for vinyl chloride. The results have been flagged accordingly.

The percent recovery for the matrix spike (MS), laboratory control sample (LCS), and laboratory control sample duplicate (LCSD) failed high for several compounds in the 8260C water analysis. The compounds were not identified in the samples, therefore the results are valid.

Semivolatile Organic Compounds by EPA Method 8270D
The samples EMW-9S-1.0, EMW-9S-5.0, EMW-9S-10.0, EMW-7S-1.0, EMW-7S-10.0, EMW-5S-1.0, EB-51-5.0, EB-51-7.5, and EB-51-10.0 were diluted due to matrix interferences. The reporting limits have been raised accordingly.

The internal standard associated with several analytes exceeded acceptance criteria for the sample EMW-9S-1.0, EMW-9S-10.0, EMW-7S-10.0, and EMW-5S-7.50. The samples were diluted and reanalyzed. The results from both analyses have been reported.

The calibration result for 2,4-dinitrophenol and 4,6-dinitro-2-methylphenol fell outside of acceptance criteria for the method blank. The values reported are estimates.

The presence of bis(2-ethylhexyl) phthalate in the samples EB-51-7.5 and EB-51-10.0 is likely due to laboratory contamination. The results have been flagged accordingly.

The percent recovery for the MS, matrix spike duplicate (MSD), LCS, and LCSD exceeded acceptance criteria for several compounds. In addition, the relative percent difference (RPD) for the MS/MSD and LCS/LCSD exceeded acceptance criteria for several compounds. The results have been flagged accordingly.

Semivolatile Organic Compounds by EPA Method 8270D SIM
The samples EMW-9S-1.0, EMW-9S-5.0, EMW-9S-10.0, EMW-7S-1.0, EB-51-7.5, and EB-51-10.0 were diluted due to matrix interferences. The reporting limits have been raised accordingly.

Polychlorinated Biphenyls as Aroclor 1016/1260 by EPA Method 8082A
The samples EMW-9S-5.0 and EB-51-5.0 were diluted due to matrix interferences. The reporting limits have been raised accordingly.

The reporting limits for the samples EMW-5S-7.50, EMW-5S-10.0, EB-51-7.5, and EB-51-10.0 were raised due to sample matrix effects.

The percent recovery for the MSD exceeded acceptance criteria for Aroclor 1016. The result has been flagged accordingly.

CASE NARRATIVE (continued)

Total Metals by EPA Method 200.8
The percent recovery for the MSD exceeded acceptance criteria for cadmium. The result has been flagged accordingly.

Total Mercury by EPA Method 1631E
All quality control requirements were acceptable.

Date of Report: 07/30/13
Date Received: 06/13/13
Project: Crowley RIFS 101.00205.00019, F&BI 306220
Date Extracted: 06/27/13 and 07/03/13
Date Analyzed: 06/27/13 and 07/03/13

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Gasoline Range	Surrogate (% Recovery) (Limit 58-139)
EB-51-7.5 306220-21 1/10	1,400	125
EB-51-10.0 ht 306220-22	36	94
Method Blank 03-1164 MB	<0.20	85
Method Blank 03-1274 MB	<0.20	74

Date of Report: 07/30/13
Date Received: 06/13/13
Project: Crowley RIFS 101.00205.00019, F&BI 306220
Date Extracted: 06/21/13
Date Analyzed: 06/22/13, 06/24/13, and 06/25/13

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx
Sample Extracts Passed Through a Silica Gel Column Prior to Analysis
Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 53-144)
EMW-9S-1.0 306220-01	<12	<21	101
EMW-9S-5.0 306220-03	<12	<21	104
EMW-9S-10.0 306220-05	82	260	109
EMW-7S-1.0 306220-07 1/10	1,800	3,100	99
EMW-7S-5.0 306220-08	<12	<21	105
EMW-7S-10.0 306220-10	<12	<21	110
EMW-5S-1.0 306220-13	<12	190	97
EMW-5S-7.50 306220-15	<12	<21	100
EMW-5S-10.0 306220-16	<12	<21	115
EB-51-1.0 306220-18	<12	45	100
EB-51-5.0 306220-20	39 x	250	123

Date of Report: 07/30/13
Date Received: 06/13/13
Project: Crowley RIFS 101.00205.00019, F&BI 306220
Date Extracted: 06/21/13
Date Analyzed: 06/22/13, 06/24/13, and 06/25/13

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx
Sample Extracts Passed Through a Silica Gel Column Prior to Analysis
Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 53-144)
EB-51-7.5 306220-21	350	34	107
EB-51-10.0 306220-22	20	66	116
Method Blank 03-1217 MB	<12	<21	98

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-9S-1.0	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	306220-01
Date Analyzed:	06/21/13	Data File:	062106.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	95	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-9S-5.0	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	306220-03
Date Analyzed:	06/21/13	Data File:	062107.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	96	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	0.016
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	0.049
Methylene chloride	<0.054	o-Xylene	0.046
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	0.023
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	0.035
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	0.044
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	0.17
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-9S-10.0	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	306220-05
Date Analyzed:	06/21/13	Data File:	062108.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-7S-1.0	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	306220-07
Date Analyzed:	06/21/13	Data File:	062109.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-7S-5.0	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	306220-08
Date Analyzed:	06/21/13	Data File:	062110.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-7S-10.0	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	306220-10
Date Analyzed:	06/21/13	Data File:	062111.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-5S-1.0	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	306220-13
Date Analyzed:	06/21/13	Data File:	062112.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-5S-7.50	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	306220-15
Date Analyzed:	06/21/13	Data File:	062113.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	0.080 lc	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-5S-10.0	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	306220-16
Date Analyzed:	06/21/13	Data File:	062114.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	96	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EB-51-1.0	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	306220-18
Date Analyzed:	06/21/13	Data File:	062115.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EB-51-5.0	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	306220-20
Date Analyzed:	06/21/13	Data File:	062116.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	0.069
Methylene chloride	<0.054	o-Xylene	0.037
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	0.085
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	0.21
Trichloroethene	<0.034	sec-Butylbenzene	0.017
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	0.034
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	0.085
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EB-51-7.5	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	306220-21
Date Analyzed:	06/24/13	Data File:	062410.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	0.71
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	2.6
Methylene chloride	<0.054	o-Xylene	2.7
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	0.77
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	1.8
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	4.3
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	0.098
Benzene	<0.014	1,2,4-Trimethylbenzene	25
Trichloroethene	<0.034	sec-Butylbenzene	1.4
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	2.0
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	2.8
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EB-51-10.0	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	306220-22
Date Analyzed:	06/24/13	Data File:	062409.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	0.021
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/20/13	Lab ID:	03-1120 mb
Date Analyzed:	06/20/13	Data File:	062021.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	96	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	0.17 lc	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	TB-061313	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/18/13	Lab ID:	306220-12
Date Analyzed:	06/18/13	Data File:	061815.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13 pr	Dibromochloromethane	<0.24
Bromomethane	<0.2	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/18/13	Lab ID:	03-1114 mb
Date Analyzed:	06/18/13	Data File:	061809.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	96	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-9S-1.0	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306220-01 1/10
Date Analyzed:	06/28/13	Data File:	062732.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	75 ds	56	115
Phenol-d6	79 ds	54	113
Nitrobenzene-d5	77 ds	31	164
2-Fluorobiphenyl	83 J ds	47	133
2,4,6-Tribromophenol	79 J ds	35	141
Terphenyl-d14	97 ds	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.054	2,4,6-Trichlorophenol	<0.08 J
Bis(2-chloroethyl) ether	<0.016	2,4,5-Trichlorophenol	<0.096 J
2-Chlorophenol	<0.062	2-Chloronaphthalene	<0.014 J
1,3-Dichlorobenzene	<0.026	2-Nitroaniline	<0.026 J
1,4-Dichlorobenzene	<0.024	Dimethyl phthalate	<0.012 J
1,2-Dichlorobenzene	<0.04	2,6-Dinitrotoluene	<0.018 J
Benzyl alcohol	<0.05	3-Nitroaniline	<0.17 J
Bis(2-chloroisopropyl) ether	<0.016	2,4-Dinitrophenol	<0.14 J
2-Methylphenol	<0.064	Dibenzofuran	<0.01 J
Hexachloroethane	<0.034	2,4-Dinitrotoluene	<0.016 J
N-Nitroso-di-n-propylamine	<0.03	4-Nitrophenol	<0.18 J
3-Methylphenol + 4-Methylphenol	<0.14	Diethyl phthalate	<0.04 J
Nitrobenzene	<0.026	4-Chlorophenyl phenyl ether	<0.016 J
Isophorone	<0.012	N-Nitrosodiphenylamine	<0.01
2-Nitrophenol	<0.082	4-Nitroaniline	<0.18
2,4-Dimethylphenol	<0.19	4,6-Dinitro-2-methylphenol	<0.11
Benzoic acid	<0.55	4-Bromophenyl phenyl ether	<0.016
Bis(2-chloroethoxy)methane	<0.014	Hexachlorobenzene	<0.01
2,4-Dichlorophenol	<0.058	Pentachlorophenol	<0.062 j
1,2,4-Trichlorobenzene	<0.034	Carbazole	<0.02
Hexachlorobutadiene	<0.02	Di-n-butyl phthalate	<0.2
4-Chloroaniline	<1.8	Benzyl butyl phthalate	<0.058
4-Chloro-3-methylphenol	<0.044	Bis(2-ethylhexyl) phthalate	<0.13
2-Methylnaphthalene	<0.01	Di-n-octyl phthalate	<0.034
Hexachlorocyclopentadiene	<0.022 J		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-9S-1.0	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306220-01 1/100
Date Analyzed:	07/09/13	Data File:	070824.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	73 ds	56	115
Phenol-d6	80 ds	54	113
Nitrobenzene-d5	80 ds	31	164
2-Fluorobiphenyl	90 ds	47	133
2,4,6-Tribromophenol	40 ds	35	141
Terphenyl-d14	100 ds	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.54	2,4,6-Trichlorophenol	<0.8
Bis(2-chloroethyl) ether	<0.16	2,4,5-Trichlorophenol	<0.96
2-Chlorophenol	<0.62	2-Chloronaphthalene	<0.14
1,3-Dichlorobenzene	<0.26	2-Nitroaniline	<0.26
1,4-Dichlorobenzene	<0.24	Dimethyl phthalate	<0.12
1,2-Dichlorobenzene	<0.4	2,6-Dinitrotoluene	<0.18
Benzyl alcohol	<0.5	3-Nitroaniline	<1.7
Bis(2-chloroisopropyl) ether	<0.16	2,4-Dinitrophenol	<1.4
2-Methylphenol	<0.64	Dibenzofuran	<0.1
Hexachloroethane	<0.34	2,4-Dinitrotoluene	<0.16
N-Nitroso-di-n-propylamine	<0.3	4-Nitrophenol	<1.8
3-Methylphenol + 4-Methylphenol	<1.4	Diethyl phthalate	<0.4
Nitrobenzene	<0.26	4-Chlorophenyl phenyl ether	<0.16
Isophorone	<0.12	N-Nitrosodiphenylamine	<0.1
2-Nitrophenol	<0.82	4-Nitroaniline	<1.8
2,4-Dimethylphenol	<1.9	4,6-Dinitro-2-methylphenol	<1.1
Benzoic acid	<5.5	4-Bromophenyl phenyl ether	<0.16
Bis(2-chloroethoxy)methane	<0.14	Hexachlorobenzene	<0.1
2,4-Dichlorophenol	<0.58	Pentachlorophenol	<0.62 j
1,2,4-Trichlorobenzene	<0.34	Carbazole	<0.2
Hexachlorobutadiene	<0.2	Di-n-butyl phthalate	<2
4-Chloroaniline	<18	Benzyl butyl phthalate	<0.58
4-Chloro-3-methylphenol	<0.44	Bis(2-ethylhexyl) phthalate	<1.3
2-Methylnaphthalene	<0.1	Di-n-octyl phthalate	<0.34
Hexachlorocyclopentadiene	<0.22		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-9S-5.0	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306220-03 1/10
Date Analyzed:	06/28/13	Data File:	062733.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	71 ds	56	115
Phenol-d6	74 ds	54	113
Nitrobenzene-d5	68 ds	31	164
2-Fluorobiphenyl	79 ds	47	133
2,4,6-Tribromophenol	74 ds	35	141
Terphenyl-d14	99 ds	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.054	2,4,6-Trichlorophenol	<0.08
Bis(2-chloroethyl) ether	<0.016	2,4,5-Trichlorophenol	<0.096
2-Chlorophenol	<0.062	2-Chloronaphthalene	<0.014
1,3-Dichlorobenzene	<0.026	2-Nitroaniline	<0.026
1,4-Dichlorobenzene	<0.024	Dimethyl phthalate	<0.012
1,2-Dichlorobenzene	<0.04	2,6-Dinitrotoluene	<0.018
Benzyl alcohol	<0.05	3-Nitroaniline	<0.17
Bis(2-chloroisopropyl) ether	<0.016	2,4-Dinitrophenol	<0.14
2-Methylphenol	<0.064	Dibenzofuran	0.063
Hexachloroethane	<0.034	2,4-Dinitrotoluene	<0.016
N-Nitroso-di-n-propylamine	<0.03	4-Nitrophenol	<0.18
3-Methylphenol + 4-Methylphenol	<0.14	Diethyl phthalate	<0.04
Nitrobenzene	<0.026	4-Chlorophenyl phenyl ether	<0.016
Isophorone	<0.012	N-Nitrosodiphenylamine	<0.01
2-Nitrophenol	<0.082	4-Nitroaniline	<0.18
2,4-Dimethylphenol	<0.19	4,6-Dinitro-2-methylphenol	<0.11
Benzoic acid	<0.55	4-Bromophenyl phenyl ether	<0.016
Bis(2-chloroethoxy)methane	<0.014	Hexachlorobenzene	<0.01
2,4-Dichlorophenol	<0.058	Pentachlorophenol	0.13
1,2,4-Trichlorobenzene	<0.034	Carbazole	0.057
Hexachlorobutadiene	<0.02	Di-n-butyl phthalate	<0.2
4-Chloroaniline	<1.8	Benzyl butyl phthalate	<0.058
4-Chloro-3-methylphenol	<0.044	Bis(2-ethylhexyl) phthalate	<0.13
2-Methylnaphthalene	0.051	Di-n-octyl phthalate	<0.034
Hexachlorocyclopentadiene	<0.022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-9S-10.0	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306220-05 1/10
Date Analyzed:	06/28/13	Data File:	062735.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	69 ds	56	115
Phenol-d6	73 ds	54	113
Nitrobenzene-d5	68 ds	31	164
2-Fluorobiphenyl	76 J ds	47	133
2,4,6-Tribromophenol	81 J ds	35	141
Terphenyl-d14	89 ds	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.054	2,4,6-Trichlorophenol	<0.08 J
Bis(2-chloroethyl) ether	<0.016	2,4,5-Trichlorophenol	<0.096 J
2-Chlorophenol	<0.062	2-Chloronaphthalene	<0.014 J
1,3-Dichlorobenzene	<0.026	2-Nitroaniline	<0.026 J
1,4-Dichlorobenzene	<0.024	Dimethyl phthalate	<0.012 J
1,2-Dichlorobenzene	<0.04	2,6-Dinitrotoluene	<0.018 J
Benzyl alcohol	<0.05	3-Nitroaniline	<0.17 J
Bis(2-chloroisopropyl) ether	<0.016	2,4-Dinitrophenol	<0.14 J
2-Methylphenol	<0.064	Dibenzofuran	0.10 J
Hexachloroethane	<0.034	2,4-Dinitrotoluene	<0.016 J
N-Nitroso-di-n-propylamine	<0.03	4-Nitrophenol	<0.18 J
3-Methylphenol + 4-Methylphenol	<0.14	Diethyl phthalate	<0.04 J
Nitrobenzene	<0.026	4-Chlorophenyl phenyl ether	<0.016 J
Isophorone	<0.012	N-Nitrosodiphenylamine	<0.01
2-Nitrophenol	<0.082	4-Nitroaniline	<0.18
2,4-Dimethylphenol	<0.19	4,6-Dinitro-2-methylphenol	<0.11
Benzoic acid	<0.55	4-Bromophenyl phenyl ether	<0.016
Bis(2-chloroethoxy)methane	<0.014	Hexachlorobenzene	<0.01
2,4-Dichlorophenol	<0.058	Pentachlorophenol	0.22
1,2,4-Trichlorobenzene	<0.034	Carbazole	0.25
Hexachlorobutadiene	<0.02	Di-n-butyl phthalate	<0.2
4-Chloroaniline	<1.8	Benzyl butyl phthalate	<0.058
4-Chloro-3-methylphenol	<0.044	Bis(2-ethylhexyl) phthalate	<0.13
2-Methylnaphthalene	0.060	Di-n-octyl phthalate	<0.034 J
Hexachlorocyclopentadiene	<0.022 J		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-9S-10.0	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306220-05 1/100
Date Analyzed:	07/09/13	Data File:	070825.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	67 ds	56	115
Phenol-d6	67 ds	54	113
Nitrobenzene-d5	70 ds	31	164
2-Fluorobiphenyl	70 ds	47	133
2,4,6-Tribromophenol	47 ds	35	141
Terphenyl-d14	80 ds	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.54	2,4,6-Trichlorophenol	<0.8
Bis(2-chloroethyl) ether	<0.16	2,4,5-Trichlorophenol	<0.96
2-Chlorophenol	<0.62	2-Chloronaphthalene	<0.14
1,3-Dichlorobenzene	<0.26	2-Nitroaniline	<0.26
1,4-Dichlorobenzene	<0.24	Dimethyl phthalate	<0.12
1,2-Dichlorobenzene	<0.4	2,6-Dinitrotoluene	<0.18
Benzyl alcohol	<0.5	3-Nitroaniline	<1.7
Bis(2-chloroisopropyl) ether	<0.16	2,4-Dinitrophenol	<1.4
2-Methylphenol	<0.64	Dibenzofuran	<0.1
Hexachloroethane	<0.34	2,4-Dinitrotoluene	<0.16
N-Nitroso-di-n-propylamine	<0.3	4-Nitrophenol	<1.8
3-Methylphenol + 4-Methylphenol	<1.4	Diethyl phthalate	<0.4
Nitrobenzene	<0.26	4-Chlorophenyl phenyl ether	<0.16
Isophorone	<0.12	N-Nitrosodiphenylamine	<0.1
2-Nitrophenol	<0.82	4-Nitroaniline	<1.8
2,4-Dimethylphenol	<1.9	4,6-Dinitro-2-methylphenol	<1.1
Benzoic acid	<5.5	4-Bromophenyl phenyl ether	<0.16
Bis(2-chloroethoxy)methane	<0.14	Hexachlorobenzene	<0.1
2,4-Dichlorophenol	<0.58	Pentachlorophenol	<0.62 j
1,2,4-Trichlorobenzene	<0.34	Carbazole	0.24
Hexachlorobutadiene	<0.2	Di-n-butyl phthalate	<2
4-Chloroaniline	<18	Benzyl butyl phthalate	<0.58
4-Chloro-3-methylphenol	<0.44	Bis(2-ethylhexyl) phthalate	<1.3
2-Methylnaphthalene	<0.1	Di-n-octyl phthalate	<0.34
Hexachlorocyclopentadiene	<0.22		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-9S-12.5	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306220-06
Date Analyzed:	07/11/13	Data File:	071030.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	81	56	115
Phenol-d6	81	54	113
Nitrobenzene-d5	85	31	164
2-Fluorobiphenyl	81	47	133
2,4,6-Tribromophenol	92	35	141
Terphenyl-d14	77	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	0.040	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014
2-Methylphenol	<0.0064	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019 jl	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	<0.013
2-Methylnaphthalene	<0.001	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-7S-1.0	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306220-07 1/20
Date Analyzed:	06/28/13	Data File:	062736.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	49 ds	56	115
Phenol-d6	60 ds	54	113
Nitrobenzene-d5	70 ds	31	164
2-Fluorobiphenyl	84 ds	47	133
2,4,6-Tribromophenol	0 ds	35	141
Terphenyl-d14	96 ds	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.11	2,4,6-Trichlorophenol	<0.16
Bis(2-chloroethyl) ether	<0.032	2,4,5-Trichlorophenol	<0.19
2-Chlorophenol	<0.12	2-Chloronaphthalene	<0.028
1,3-Dichlorobenzene	<0.052	2-Nitroaniline	<0.052
1,4-Dichlorobenzene	<0.048	Dimethyl phthalate	<0.024
1,2-Dichlorobenzene	<0.08	2,6-Dinitrotoluene	<0.036
Benzyl alcohol	<0.1	3-Nitroaniline	<0.35
Bis(2-chloroisopropyl) ether	<0.032	2,4-Dinitrophenol	<0.28
2-Methylphenol	<0.13	Dibenzofuran	<0.02
Hexachloroethane	<0.068	2,4-Dinitrotoluene	<0.032
N-Nitroso-di-n-propylamine	<0.06	4-Nitrophenol	<0.36
3-Methylphenol + 4-Methylphenol	<0.29	Diethyl phthalate	<0.08
Nitrobenzene	<0.052	4-Chlorophenyl phenyl ether	<0.032
Isophorone	<0.024	N-Nitrosodiphenylamine	<0.02
2-Nitrophenol	<0.16	4-Nitroaniline	<0.36
2,4-Dimethylphenol	<0.37	4,6-Dinitro-2-methylphenol	<0.21
Benzoic acid	<1.1	4-Bromophenyl phenyl ether	<0.032
Bis(2-chloroethoxy)methane	<0.028	Hexachlorobenzene	<0.02
2,4-Dichlorophenol	<0.12	Pentachlorophenol	<0.12 j
1,2,4-Trichlorobenzene	<0.068	Carbazole	<0.04
Hexachlorobutadiene	<0.04	Di-n-butyl phthalate	<0.4
4-Chloroaniline	<3.6	Benzyl butyl phthalate	0.18
4-Chloro-3-methylphenol	<0.088	Bis(2-ethylhexyl) phthalate	<0.27
2-Methylnaphthalene	<0.02	Di-n-octyl phthalate	<0.068
Hexachlorocyclopentadiene	<0.044		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-7S-5.0	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306220-08
Date Analyzed:	06/28/13	Data File:	062726.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	75	56	115
Phenol-d6	79	54	113
Nitrobenzene-d5	80	31	164
2-Fluorobiphenyl	80	47	133
2,4,6-Tribromophenol	82	35	141
Terphenyl-d14	91	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	<0.005	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014
2-Methylphenol	<0.0064	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062 j
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	<0.013
2-Methylnaphthalene	<0.001	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-7S-10.0	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306220-10
Date Analyzed:	06/28/13	Data File:	062727.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	78	56	115
Phenol-d6	84	54	113
Nitrobenzene-d5	80	31	164
2-Fluorobiphenyl	80 J	47	133
2,4,6-Tribromophenol	90 J	35	141
Terphenyl-d14	85 J	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008 J
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096 J
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014 J
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026 J
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012 J
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018 J
Benzyl alcohol	0.0053	3-Nitroaniline	<0.017 J
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014 J
2-Methylphenol	<0.0064	Dibenzofuran	<0.001 J
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016 J
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018 J
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004 J
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016 J
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001 J
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018 J
2,4-Dimethylphenol	<0.019	4,6-Dinitro-2-methylphenol	<0.011 J
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016 J
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001 J
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	0.0087 J j
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002 J
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02 J
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058 J
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	<0.013 J
2-Methylnaphthalene	0.0018	Di-n-octyl phthalate	<0.0034 J
Hexachlorocyclopentadiene	<0.0022 J		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-7S-10.0	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306220-10 1/10
Date Analyzed:	07/08/13	Data File:	070822.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	78 ds	56	115
Phenol-d6	77 ds	54	113
Nitrobenzene-d5	77 ds	31	164
2-Fluorobiphenyl	83 ds	47	133
2,4,6-Tribromophenol	63 ds	35	141
Terphenyl-d14	83 ds	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.054	2,4,6-Trichlorophenol	<0.08
Bis(2-chloroethyl) ether	<0.016	2,4,5-Trichlorophenol	<0.096
2-Chlorophenol	<0.062	2-Chloronaphthalene	<0.014
1,3-Dichlorobenzene	<0.026	2-Nitroaniline	<0.026
1,4-Dichlorobenzene	<0.024	Dimethyl phthalate	<0.012
1,2-Dichlorobenzene	<0.04	2,6-Dinitrotoluene	<0.018
Benzyl alcohol	<0.05	3-Nitroaniline	<0.17
Bis(2-chloroisopropyl) ether	<0.016	2,4-Dinitrophenol	<0.14
2-Methylphenol	<0.064	Dibenzofuran	<0.01
Hexachloroethane	<0.034	2,4-Dinitrotoluene	<0.016
N-Nitroso-di-n-propylamine	<0.03	4-Nitrophenol	<0.18
3-Methylphenol + 4-Methylphenol	<0.14	Diethyl phthalate	<0.04
Nitrobenzene	<0.026	4-Chlorophenyl phenyl ether	<0.016
Isophorone	<0.012	N-Nitrosodiphenylamine	<0.01
2-Nitrophenol	<0.082	4-Nitroaniline	<0.18
2,4-Dimethylphenol	<0.19	4,6-Dinitro-2-methylphenol	<0.11
Benzoic acid	<0.55	4-Bromophenyl phenyl ether	<0.016
Bis(2-chloroethoxy)methane	<0.014	Hexachlorobenzene	<0.01
2,4-Dichlorophenol	<0.058	Pentachlorophenol	<0.062 j
1,2,4-Trichlorobenzene	<0.034	Carbazole	<0.02
Hexachlorobutadiene	<0.02	Di-n-butyl phthalate	<0.2
4-Chloroaniline	<1.8	Benzyl butyl phthalate	<0.058
4-Chloro-3-methylphenol	<0.044	Bis(2-ethylhexyl) phthalate	<0.13
2-Methylnaphthalene	<0.01	Di-n-octyl phthalate	<0.034
Hexachlorocyclopentadiene	<0.022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-5S-1.0	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306220-13 1/10
Date Analyzed:	06/28/13	Data File:	062731.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	69 ds	56	115
Phenol-d6	75 ds	54	113
Nitrobenzene-d5	73 ds	31	164
2-Fluorobiphenyl	80 ds	47	133
2,4,6-Tribromophenol	69 ds	35	141
Terphenyl-d14	99 ds	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.054	2,4,6-Trichlorophenol	<0.08
Bis(2-chloroethyl) ether	<0.016	2,4,5-Trichlorophenol	<0.096
2-Chlorophenol	<0.062	2-Chloronaphthalene	<0.014
1,3-Dichlorobenzene	<0.026	2-Nitroaniline	<0.026
1,4-Dichlorobenzene	<0.024	Dimethyl phthalate	<0.012
1,2-Dichlorobenzene	<0.04	2,6-Dinitrotoluene	<0.018
Benzyl alcohol	<0.05	3-Nitroaniline	<0.17
Bis(2-chloroisopropyl) ether	<0.016	2,4-Dinitrophenol	<0.14
2-Methylphenol	<0.064	Dibenzofuran	<0.01
Hexachloroethane	<0.034	2,4-Dinitrotoluene	<0.016
N-Nitroso-di-n-propylamine	<0.03	4-Nitrophenol	<0.18
3-Methylphenol + 4-Methylphenol	<0.14	Diethyl phthalate	<0.04
Nitrobenzene	<0.026	4-Chlorophenyl phenyl ether	<0.016
Isophorone	<0.012	N-Nitrosodiphenylamine	<0.01
2-Nitrophenol	<0.082	4-Nitroaniline	<0.18
2,4-Dimethylphenol	<0.19	4,6-Dinitro-2-methylphenol	<0.11
Benzoic acid	<0.55	4-Bromophenyl phenyl ether	<0.016
Bis(2-chloroethoxy)methane	<0.014	Hexachlorobenzene	<0.01
2,4-Dichlorophenol	<0.058	Pentachlorophenol	<0.062 j
1,2,4-Trichlorobenzene	<0.034	Carbazole	<0.02
Hexachlorobutadiene	<0.02	Di-n-butyl phthalate	<0.2
4-Chloroaniline	<1.8	Benzyl butyl phthalate	<0.058
4-Chloro-3-methylphenol	<0.044	Bis(2-ethylhexyl) phthalate	<0.13
2-Methylnaphthalene	<0.01	Di-n-octyl phthalate	<0.034
Hexachlorocyclopentadiene	<0.022		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-5S-7.50	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306220-15
Date Analyzed:	06/28/13	Data File:	062730.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	46	56	115
Phenol-d6	82	54	113
Nitrobenzene-d5	73	31	164
2-Fluorobiphenyl	78 J	47	133
2,4,6-Tribromophenol	91 J	35	141
Terphenyl-d14	85 J	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008 J
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096 J
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014 J
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026 J
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012 J
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018 J
Benzyl alcohol	0.0059	3-Nitroaniline	<0.017 J
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014 J
2-Methylphenol	<0.0064	Dibenzofuran	0.0016 J
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016 J
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018 J
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004 J
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016 J
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001 J
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018 J
2,4-Dimethylphenol	<0.019	4,6-Dinitro-2-methylphenol	<0.011 J
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016 J
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001 J
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062 J j
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002 J
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02 J
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058 J
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	<0.013 J
2-Methylnaphthalene	0.0017	Di-n-octyl phthalate	<0.0034 J
Hexachlorocyclopentadiene	<0.0022 J		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-5S-7.50	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306220-15 1/10
Date Analyzed:	07/08/13	Data File:	070823.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	72 ds	56	115
Phenol-d6	71 ds	54	113
Nitrobenzene-d5	71 ds	31	164
2-Fluorobiphenyl	80 ds	47	133
2,4,6-Tribromophenol	62 ds	35	141
Terphenyl-d14	80 ds	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.054	2,4,6-Trichlorophenol	<0.08
Bis(2-chloroethyl) ether	<0.016	2,4,5-Trichlorophenol	<0.096
2-Chlorophenol	<0.062	2-Chloronaphthalene	<0.014
1,3-Dichlorobenzene	<0.026	2-Nitroaniline	<0.026
1,4-Dichlorobenzene	<0.024	Dimethyl phthalate	<0.012
1,2-Dichlorobenzene	<0.04	2,6-Dinitrotoluene	<0.018
Benzyl alcohol	<0.05	3-Nitroaniline	<0.17
Bis(2-chloroisopropyl) ether	<0.016	2,4-Dinitrophenol	<0.14
2-Methylphenol	<0.064	Dibenzofuran	<0.01
Hexachloroethane	<0.034	2,4-Dinitrotoluene	<0.016
N-Nitroso-di-n-propylamine	<0.03	4-Nitrophenol	<0.18
3-Methylphenol + 4-Methylphenol	<0.14	Diethyl phthalate	<0.04
Nitrobenzene	<0.026	4-Chlorophenyl phenyl ether	<0.016
Isophorone	<0.012	N-Nitrosodiphenylamine	<0.01
2-Nitrophenol	<0.082	4-Nitroaniline	<0.18
2,4-Dimethylphenol	<0.19	4,6-Dinitro-2-methylphenol	<0.11
Benzoic acid	<0.55	4-Bromophenyl phenyl ether	<0.016
Bis(2-chloroethoxy)methane	<0.014	Hexachlorobenzene	<0.01
2,4-Dichlorophenol	<0.058	Pentachlorophenol	<0.062 j
1,2,4-Trichlorobenzene	<0.034	Carbazole	<0.02
Hexachlorobutadiene	<0.02	Di-n-butyl phthalate	<0.2
4-Chloroaniline	<1.8	Benzyl butyl phthalate	<0.058
4-Chloro-3-methylphenol	<0.044	Bis(2-ethylhexyl) phthalate	<0.13
2-Methylnaphthalene	<0.01	Di-n-octyl phthalate	<0.034
Hexachlorocyclopentadiene	<0.022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-5S-10.0	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306220-16
Date Analyzed:	06/26/13	Data File:	062611.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	71	56	115
Phenol-d6	79	54	113
Nitrobenzene-d5	79	31	164
2-Fluorobiphenyl	79	47	133
2,4,6-Tribromophenol	87	35	141
Terphenyl-d14	86	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	0.0099	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014
2-Methylphenol	<0.0064	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062 j
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	<0.013
2-Methylnaphthalene	<0.001	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EB-51-1.0	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306220-18
Date Analyzed:	06/28/13	Data File:	062728.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	75	56	115
Phenol-d6	80	54	113
Nitrobenzene-d5	84	31	164
2-Fluorobiphenyl	87	47	133
2,4,6-Tribromophenol	85	35	141
Terphenyl-d14	100	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	0.0076	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014
2-Methylphenol	<0.0064	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062 j
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	<0.013
2-Methylnaphthalene	<0.001	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EB-51-5.0	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306220-20 1/100
Date Analyzed:	06/28/13	Data File:	062738.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	20 ds	56	115
Phenol-d6	60 ds	54	113
Nitrobenzene-d5	90 ds	31	164
2-Fluorobiphenyl	100 ds	47	133
2,4,6-Tribromophenol	13 ds	35	141
Terphenyl-d14	110 ds	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.54	2,4,6-Trichlorophenol	<0.8
Bis(2-chloroethyl) ether	<0.16	2,4,5-Trichlorophenol	<0.96
2-Chlorophenol	<0.62	2-Chloronaphthalene	<0.14
1,3-Dichlorobenzene	<0.26	2-Nitroaniline	<0.26
1,4-Dichlorobenzene	<0.24	Dimethyl phthalate	<0.12
1,2-Dichlorobenzene	<0.4	2,6-Dinitrotoluene	<0.18
Benzyl alcohol	<0.5	3-Nitroaniline	<1.7
Bis(2-chloroisopropyl) ether	<0.16	2,4-Dinitrophenol	<1.4
2-Methylphenol	<0.64	Dibenzofuran	<0.1
Hexachloroethane	<0.34	2,4-Dinitrotoluene	<0.16
N-Nitroso-di-n-propylamine	<0.3	4-Nitrophenol	<1.8
3-Methylphenol + 4-Methylphenol	<1.4	Diethyl phthalate	<0.4
Nitrobenzene	<0.26	4-Chlorophenyl phenyl ether	<0.16
Isophorone	<0.12	N-Nitrosodiphenylamine	<0.1
2-Nitrophenol	<0.82	4-Nitroaniline	<1.8
2,4-Dimethylphenol	<1.9	4,6-Dinitro-2-methylphenol	<1.1
Benzoic acid	<5.5	4-Bromophenyl phenyl ether	<0.16
Bis(2-chloroethoxy)methane	<0.14	Hexachlorobenzene	<0.1
2,4-Dichlorophenol	<0.58	Pentachlorophenol	<0.62 j
1,2,4-Trichlorobenzene	<0.34	Carbazole	<0.2
Hexachlorobutadiene	<0.2	Di-n-butyl phthalate	<2
4-Chloroaniline	<18	Benzyl butyl phthalate	<0.58
4-Chloro-3-methylphenol	<0.44	Bis(2-ethylhexyl) phthalate	<1.3
2-Methylnaphthalene	<0.1	Di-n-octyl phthalate	<0.34
Hexachlorocyclopentadiene	<0.22		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EB-51-7.5	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306220-21 1/20
Date Analyzed:	06/28/13	Data File:	062739.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	65 ds	56	115
Phenol-d6	0 ds	54	113
Nitrobenzene-d5	0 ds	31	164
2-Fluorobiphenyl	54 ds	47	133
2,4,6-Tribromophenol	75 ds	35	141
Terphenyl-d14	79 ds	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.11	2,4,6-Trichlorophenol	<0.16
Bis(2-chloroethyl) ether	<0.032	2,4,5-Trichlorophenol	<0.19
2-Chlorophenol	<0.12	2-Chloronaphthalene	<0.028
1,3-Dichlorobenzene	<0.052	2-Nitroaniline	<0.052
1,4-Dichlorobenzene	<0.048	Dimethyl phthalate	<0.024
1,2-Dichlorobenzene	<0.08	2,6-Dinitrotoluene	<0.036
Benzyl alcohol	<0.1	3-Nitroaniline	<0.35
Bis(2-chloroisopropyl) ether	<0.032	2,4-Dinitrophenol	<0.28
2-Methylphenol	<0.13	Dibenzofuran	0.22
Hexachloroethane	<0.068	2,4-Dinitrotoluene	<0.032
N-Nitroso-di-n-propylamine	<0.06	4-Nitrophenol	<0.36
3-Methylphenol + 4-Methylphenol	<0.29	Diethyl phthalate	<0.08
Nitrobenzene	<0.052	4-Chlorophenyl phenyl ether	<0.032
Isophorone	<0.024	N-Nitrosodiphenylamine	<0.02
2-Nitrophenol	<0.16	4-Nitroaniline	<0.36
2,4-Dimethylphenol	<0.37	4,6-Dinitro-2-methylphenol	<0.21
Benzoic acid	<1.1	4-Bromophenyl phenyl ether	<0.032
Bis(2-chloroethoxy)methane	<0.028	Hexachlorobenzene	<0.02
2,4-Dichlorophenol	<0.12	Pentachlorophenol	<0.12 j
1,2,4-Trichlorobenzene	<0.068	Carbazole	0.047
Hexachlorobutadiene	<0.04	Di-n-butyl phthalate	<0.4
4-Chloroaniline	<3.6	Benzyl butyl phthalate	<0.12
4-Chloro-3-methylphenol	<0.088	Bis(2-ethylhexyl) phthalate	0.40 lc
2-Methylnaphthalene	6.9	Di-n-octyl phthalate	<0.068
Hexachlorocyclopentadiene	<0.044		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EB-51-10.0	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306220-22 1/100
Date Analyzed:	06/28/13	Data File:	062740.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	81 ds	56	115
Phenol-d6	61 ds	54	113
Nitrobenzene-d5	96 ds	31	164
2-Fluorobiphenyl	88 ds	47	133
2,4,6-Tribromophenol	10 ds	35	141
Terphenyl-d14	103 ds	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.54	2,4,6-Trichlorophenol	<0.8
Bis(2-chloroethyl) ether	<0.16	2,4,5-Trichlorophenol	<0.96
2-Chlorophenol	<0.62	2-Chloronaphthalene	<0.14
1,3-Dichlorobenzene	<0.26	2-Nitroaniline	<0.26
1,4-Dichlorobenzene	<0.24	Dimethyl phthalate	<0.12
1,2-Dichlorobenzene	<0.4	2,6-Dinitrotoluene	<0.18
Benzyl alcohol	<0.5	3-Nitroaniline	<1.7
Bis(2-chloroisopropyl) ether	<0.16	2,4-Dinitrophenol	<1.4
2-Methylphenol	<0.64	Dibenzofuran	<0.1
Hexachloroethane	<0.34	2,4-Dinitrotoluene	<0.16
N-Nitroso-di-n-propylamine	<0.3	4-Nitrophenol	<1.8
3-Methylphenol + 4-Methylphenol	<1.4	Diethyl phthalate	<0.4
Nitrobenzene	<0.26	4-Chlorophenyl phenyl ether	<0.16
Isophorone	<0.12	N-Nitrosodiphenylamine	<0.1
2-Nitrophenol	<0.82	4-Nitroaniline	<1.8
2,4-Dimethylphenol	<1.9	4,6-Dinitro-2-methylphenol	<1.1
Benzoic acid	<5.5	4-Bromophenyl phenyl ether	<0.16
Bis(2-chloroethoxy)methane	<0.14	Hexachlorobenzene	<0.1
2,4-Dichlorophenol	<0.58	Pentachlorophenol	<0.62 j
1,2,4-Trichlorobenzene	<0.34	Carbazole	<0.2
Hexachlorobutadiene	<0.2	Di-n-butyl phthalate	<2
4-Chloroaniline	<18	Benzyl butyl phthalate	<0.58
4-Chloro-3-methylphenol	<0.44	Bis(2-ethylhexyl) phthalate	20 ve lc
2-Methylnaphthalene	<0.1	Di-n-octyl phthalate	<0.34
Hexachlorocyclopentadiene	<0.22		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	03-1238 mb
Date Analyzed:	06/26/13	Data File:	062610.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	89	56	115
Phenol-d6	94	54	113
Nitrobenzene-d5	99	31	164
2-Fluorobiphenyl	97	47	133
2,4,6-Tribromophenol	103	35	141
Terphenyl-d14	106	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	<0.005	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014
2-Methylphenol	<0.0064	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062 j
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	<0.013
2-Methylnaphthalene	<0.001	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	03-1253 mb
Date Analyzed:	07/09/13	Data File:	070918.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	84	56	115
Phenol-d6	87	54	113
Nitrobenzene-d5	91	31	164
2-Fluorobiphenyl	91	47	133
2,4,6-Tribromophenol	91	35	141
Terphenyl-d14	90	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	<0.005	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014 ca
2-Methylphenol	<0.0064	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019	4,6-Dinitro-2-methylphenol	<0.011 ca
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	<0.013
2-Methylnaphthalene	<0.001	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-9S-1.0	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306220-01 1/10
Date Analyzed:	06/27/13	Data File:	062717.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	197 ds	50	150
Benzo(a)anthracene-d12	80 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.0022
Acenaphthylene	<0.00091
Acenaphthene	<0.0014
Fluorene	<0.0015
Phenanthrene	0.0048
Anthracene	0.0037
Fluoranthene	0.0064
Pyrene	0.0074
Benz(a)anthracene	0.0040
Chrysene	0.0091
Benzo(a)pyrene	0.0050
Benzo(b)fluoranthene	0.0078
Benzo(k)fluoranthene	<0.0036
Indeno(1,2,3-cd)pyrene	<0.0062
Dibenz(a,h)anthracene	<0.0034
Benzo(g,h,i)perylene	0.0058

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-9S-5.0	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306220-03 1/10
Date Analyzed:	06/27/13	Data File:	062733.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	162 ds	50	150
Benzo(a)anthracene-d12	86 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.039
Acenaphthylene	0.0017
Acenaphthene	0.046
Fluorene	0.042
Phenanthrene	0.22
Anthracene	0.078
Fluoranthene	0.24
Pyrene	0.24
Benz(a)anthracene	0.10
Chrysene	0.14
Benzo(a)pyrene	0.092
Benzo(b)fluoranthene	0.13
Benzo(k)fluoranthene	0.046
Indeno(1,2,3-cd)pyrene	0.071
Dibenz(a,h)anthracene	0.015
Benzo(g,h,i)perylene	0.063

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-9S-10.0	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306220-05 1/10
Date Analyzed:	06/28/13	Data File:	062734.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	101 ds	50	150
Benzo(a)anthracene-d12	101 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.053
Acenaphthylene	0.0033
Acenaphthene	0.10
Fluorene	0.12
Phenanthrene	0.86 ve
Anthracene	0.24
Fluoranthene	1.1 ve
Pyrene	1.1 ve
Benz(a)anthracene	0.48
Chrysene	0.55
Benzo(a)pyrene	0.36
Benzo(b)fluoranthene	0.51
Benzo(k)fluoranthene	0.15
Indeno(1,2,3-cd)pyrene	0.25
Dibenz(a,h)anthracene	0.053
Benzo(g,h,i)perylene	0.20

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-9S-10.0	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306220-05 1/100
Date Analyzed:	06/28/13	Data File:	062830.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	1459 ds	50	150
Benzo(a)anthracene-d12	82 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.074
Acenaphthylene	<0.0091
Acenaphthene	0.10
Fluorene	0.13
Phenanthrene	0.86
Anthracene	0.32
Fluoranthene	1.2
Pyrene	1.1
Benz(a)anthracene	0.44
Chrysene	0.63
Benzo(a)pyrene	0.39
Benzo(b)fluoranthene	0.49
Benzo(k)fluoranthene	0.22
Indeno(1,2,3-cd)pyrene	0.23
Dibenz(a,h)anthracene	0.047
Benzo(g,h,i)perylene	0.21

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-9S-12.5	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306220-06
Date Analyzed:	07/09/13	Data File:	070926.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	70	50	150
Benzo(a)anthracene-d12	63	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.00022
Acenaphthylene	<0.000091
Acenaphthene	<0.00014
Fluorene	<0.00015
Phenanthrene	<0.00032
Anthracene	<0.000088
Fluoranthene	<0.00028
Pyrene	<0.00026
Benz(a)anthracene	<0.00018
Chrysene	<0.00019
Benzo(a)pyrene	<0.00022
Benzo(b)fluoranthene	<0.00018
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	<0.00062
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	<0.00034

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-7S-1.0	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306220-07 1/20
Date Analyzed:	06/28/13	Data File:	062806.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	144 ds	50	150
Benzo(a)anthracene-d12	75 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.0059
Acenaphthylene	<0.0018
Acenaphthene	<0.0028
Fluorene	<0.003
Phenanthrene	0.023
Anthracene	0.0082
Fluoranthene	0.020
Pyrene	0.044
Benz(a)anthracene	0.016
Chrysene	0.030
Benzo(a)pyrene	0.021
Benzo(b)fluoranthene	0.031
Benzo(k)fluoranthene	0.0095
Indeno(1,2,3-cd)pyrene	0.023
Dibenz(a,h)anthracene	<0.0068
Benzo(g,h,i)perylene	0.032

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-7S-5.0	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306220-08
Date Analyzed:	06/27/13	Data File:	062711.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	73	50	150
Benzo(a)anthracene-d12	80	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.00026
Acenaphthylene	<0.000091
Acenaphthene	<0.00014
Fluorene	<0.00015
Phenanthrene	0.00038
Anthracene	<0.000088
Fluoranthene	<0.00028
Pyrene	<0.00026
Benz(a)anthracene	<0.00018
Chrysene	<0.00019
Benzo(a)pyrene	<0.00022
Benzo(b)fluoranthene	<0.00018
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	<0.00062
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	<0.00034

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-7S-10.0	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306220-10
Date Analyzed:	06/27/13	Data File:	062712.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	68	50	150
Benzo(a)anthracene-d12	87	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.00083
Acenaphthylene	<0.000091
Acenaphthene	<0.00014
Fluorene	<0.00015
Phenanthrene	0.0036
Anthracene	0.00022
Fluoranthene	0.00070
Pyrene	0.0011
Benz(a)anthracene	0.00061
Chrysene	0.00080
Benzo(a)pyrene	<0.00022
Benzo(b)fluoranthene	<0.00018
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	<0.00062
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	<0.00034

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-7S-12.5	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306220-11
Date Analyzed:	07/09/13	Data File:	070916.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	58	50	150
Benzo(a)anthracene-d12	62	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.00026
Benz(a)anthracene	0.00066

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-5S-1.0	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306220-13
Date Analyzed:	07/15/13	Data File:	071512.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	67	50	150
Benzo(a)anthracene-d12	80	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.00022
Acenaphthylene	0.00011
Acenaphthene	<0.00014
Fluorene	<0.00015
Phenanthrene	0.0020
Anthracene	0.00017
Fluoranthene	0.00046
Pyrene	0.0015
Benz(a)anthracene	0.00074
Chrysene	0.0032
Benzo(a)pyrene	0.0012
Benzo(b)fluoranthene	0.0015
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	<0.00062
Dibenz(a,h)anthracene	0.0010
Benzo(g,h,i)perylene	0.0024

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-5S-7.50	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306220-15
Date Analyzed:	06/27/13	Data File:	062713.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	63	50	150
Benzo(a)anthracene-d12	98	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.00095
Acenaphthylene	0.00030
Acenaphthene	<0.00014
Fluorene	<0.00015
Phenanthrene	0.0034
Anthracene	0.00037
Fluoranthene	0.0026
Pyrene	0.0035
Benz(a)anthracene	0.0019
Chrysene	0.0028
Benzo(a)pyrene	0.0019
Benzo(b)fluoranthene	0.0031
Benzo(k)fluoranthene	0.00073
Indeno(1,2,3-cd)pyrene	0.0021
Dibenz(a,h)anthracene	0.00049
Benzo(g,h,i)perylene	0.0022

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-5S-10.0	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306220-16
Date Analyzed:	06/27/13	Data File:	062710.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	66	50	150
Benzo(a)anthracene-d12	89	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.00056
Acenaphthylene	<0.000091
Acenaphthene	<0.00014
Fluorene	<0.00015
Phenanthrene	0.0021
Anthracene	<0.000088
Fluoranthene	<0.00028
Pyrene	0.00041
Benz(a)anthracene	0.00030
Chrysene	0.00060
Benzo(a)pyrene	<0.00022
Benzo(b)fluoranthene	<0.00018
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	<0.00062
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	<0.00034

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-5S-12.5	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306220-17
Date Analyzed:	07/09/13	Data File:	070836.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	66	50	150
Benzo(a)anthracene-d12	68	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.00022

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ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-51-1.0	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306220-18
Date Analyzed:	06/27/13	Data File:	062714.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	69	50	150
Benzo(a)anthracene-d12	93	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.00026
Acenaphthylene	0.00014
Acenaphthene	<0.00014
Fluorene	0.00017
Phenanthrene	0.0012
Anthracene	0.00038
Fluoranthene	0.0022
Pyrene	0.0028
Benz(a)anthracene	0.0025
Chrysene	0.0032
Benzo(a)pyrene	0.0026
Benzo(b)fluoranthene	0.0043
Benzo(k)fluoranthene	0.0011
Indeno(1,2,3-cd)pyrene	0.0024
Dibenz(a,h)anthracene	0.00061
Benzo(g,h,i)perylene	0.0026

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-51-5.0	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306220-20 1/100
Date Analyzed:	06/28/13	Data File:	062808.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	169 ds	50	150
Benzo(a)anthracene-d12	148 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.025
Acenaphthylene	<0.0091
Acenaphthene	0.059
Fluorene	0.063
Phenanthrene	0.54
Anthracene	0.21
Fluoranthene	0.80
Pyrene	0.85
Benz(a)anthracene	0.38
Chrysene	0.50
Benzo(a)pyrene	0.34
Benzo(b)fluoranthene	0.49
Benzo(k)fluoranthene	0.15
Indeno(1,2,3-cd)pyrene	0.22
Dibenz(a,h)anthracene	0.050
Benzo(g,h,i)perylene	0.20

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-51-7.5	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306220-21 1/20
Date Analyzed:	06/28/13	Data File:	062809.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	100 ds	50	150
Benzo(a)anthracene-d12	81 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	1.2
Acenaphthylene	<0.0018
Acenaphthene	<0.0028
Fluorene	0.22
Phenanthrene	0.26
Anthracene	0.025
Fluoranthene	0.015
Pyrene	0.027
Benz(a)anthracene	0.0067
Chrysene	0.0079
Benzo(a)pyrene	<0.0044
Benzo(b)fluoranthene	0.0055
Benzo(k)fluoranthene	<0.0072
Indeno(1,2,3-cd)pyrene	<0.012
Dibenz(a,h)anthracene	<0.0068
Benzo(g,h,i)perylene	<0.0068

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-51-10.0	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306220-22 1/100
Date Analyzed:	06/28/13	Data File:	062810.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	150 ds	50	150
Benzo(a)anthracene-d12	100 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.022
Acenaphthylene	<0.0091
Acenaphthene	<0.014
Fluorene	<0.015
Phenanthrene	0.035
Anthracene	0.0094
Fluoranthene	0.077
Pyrene	0.088
Benz(a)anthracene	0.057
Chrysene	0.060
Benzo(a)pyrene	0.051
Benzo(b)fluoranthene	0.060
Benzo(k)fluoranthene	<0.036
Indeno(1,2,3-cd)pyrene	<0.062
Dibenz(a,h)anthracene	<0.034
Benzo(g,h,i)perylene	0.040

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	03-1237 mb
Date Analyzed:	06/27/13	Data File:	062706.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	91	50	150
Benzo(a)anthracene-d12	91	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.00022
Acenaphthylene	<0.000091
Acenaphthene	<0.00014
Fluorene	<0.00015
Phenanthrene	<0.00032
Anthracene	<0.000088
Fluoranthene	<0.00028
Pyrene	<0.00026
Benz(a)anthracene	<0.00018
Chrysene	<0.00019
Benzo(a)pyrene	<0.00022
Benzo(b)fluoranthene	<0.00018
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	<0.00062
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	<0.00034

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	03-1254 mb2
Date Analyzed:	07/08/13	Data File:	070826.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	76	50	150
Benzo(a)anthracene-d12	87	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.00022
Acenaphthylene	<0.000091
Acenaphthene	<0.00014
Fluorene	<0.00015
Phenanthrene	<0.00032
Anthracene	<0.000088
Fluoranthene	<0.00028
Pyrene	<0.00026
Benz(a)anthracene	<0.00018
Chrysene	<0.00019
Benzo(a)pyrene	<0.00022
Benzo(b)fluoranthene	<0.00018
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	<0.00062
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	<0.00034

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-9S-1.0	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/26/13	Lab ID:	306220-01
Date Analyzed:	07/19/13	Data File:	08.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	303 vo	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-9S-5.0	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/26/13	Lab ID:	306220-03 1/5
Date Analyzed:	07/19/13	Data File:	10.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	108 ds	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.17
Aroclor 1232	<0.17
Aroclor 1016	<0.17
Aroclor 1242	<0.17
Aroclor 1248	<0.17
Aroclor 1254	<0.17
Aroclor 1260	<0.17

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-9S-10.0	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/26/13	Lab ID:	306220-05
Date Analyzed:	07/12/13	Data File:	76.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	138	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-7S-1.0	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/26/13	Lab ID:	306220-07
Date Analyzed:	07/19/13	Data File:	12.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	124	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	0.079

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-7S-5.0	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306220-08
Date Analyzed:	07/03/13	Data File:	20.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	84	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-7S-10.0	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306220-10
Date Analyzed:	07/05/13	Data File:	30.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	152 vo	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-5S-1.0	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306220-13
Date Analyzed:	07/05/13	Data File:	32.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	126	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-5S-7.50	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/26/13	Lab ID:	306220-15
Date Analyzed:	07/25/13	Data File:	072508.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mcp

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	102	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.66
Aroclor 1232	<0.66
Aroclor 1016	<0.66
Aroclor 1242	<0.66
Aroclor 1248	<0.66
Aroclor 1254	<0.66
Aroclor 1260	<0.66

Note: The reporting limits are raised due to sample matrix effects.

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-5S-10.0	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/26/13	Lab ID:	306220-16
Date Analyzed:	07/25/13	Data File:	072510.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mcp

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	81	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.66
Aroclor 1232	<0.66
Aroclor 1016	<0.66
Aroclor 1242	<0.66
Aroclor 1248	<0.66
Aroclor 1254	<0.66
Aroclor 1260	<0.66

Note: The reporting limits are raised due to sample matrix effects.

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-5S-12.5	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306220-17
Date Analyzed:	06/29/13 01:34	Data File:	34.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	78	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EB-51-1.0	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306220-18
Date Analyzed:	07/05/13	Data File:	38.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	138	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EB-51-5.0	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/26/13	Lab ID:	306220-20 1/2
Date Analyzed:	07/10/13	Data File:	92.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mcp

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	122 ds	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.066
Aroclor 1232	<0.066
Aroclor 1016	<0.066
Aroclor 1242	<0.066
Aroclor 1248	<0.066
Aroclor 1254	0.36
Aroclor 1260	<0.066

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EB-51-7.5	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/26/13	Lab ID:	306220-21
Date Analyzed:	07/25/13	Data File:	072512.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mcp

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	96	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.66
Aroclor 1232	<0.66
Aroclor 1016	<0.66
Aroclor 1242	<0.66
Aroclor 1248	<0.66
Aroclor 1254	<0.66
Aroclor 1260	<0.66

Note: The reporting limits are raised due to sample matrix effects.

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EB-51-10.0	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/26/13	Lab ID:	306220-22
Date Analyzed:	07/25/13	Data File:	072514.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mcp

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	77	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.66
Aroclor 1232	<0.66
Aroclor 1016	<0.66
Aroclor 1242	<0.66
Aroclor 1248	<0.66
Aroclor 1254	<0.66
Aroclor 1260	<0.66

Note: The reporting limits are raised due to sample matrix effects.

Analysis For PCBs By EPA Method 8082

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	03-1255 mb
Date Analyzed:	06/28/13 19:12	Data File:	10.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	100	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/26/13	Lab ID:	03-1246 mb
Date Analyzed:	07/03/13	Data File:	10.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	81	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-9S-1.0	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/28/13	Lab ID:	306220-01
Date Analyzed:	06/28/13	Data File:	306220-01.071
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	98	60	125
Indium	87	60	125
Holmium	93	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.111
Chromium	9.26
Nickel	12.0
Copper	13.4
Zinc	19.3
Arsenic	5.06
Selenium	<0.912
Silver	<0.0784 j
Cadmium	<0.204 j
Antimony	1.55
Barium	31.0
Thallium	0.0515
Lead	3.86

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-9S-5.0	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/28/13	Lab ID:	306220-03
Date Analyzed:	06/28/13	Data File:	306220-03.072
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	108	60	125
Indium	103	60	125
Holmium	96	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.216
Chromium	16.5
Nickel	18.7
Copper	148
Zinc	465
Arsenic	184
Selenium	<0.912
Silver	0.231
Cadmium	0.393
Antimony	113
Barium	72.6
Thallium	0.110
Lead	154

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-9S-10.0	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/28/13	Lab ID:	306220-05
Date Analyzed:	06/28/13	Data File:	306220-05.073
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	107	60	125
Indium	95	60	125
Holmium	101	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.176
Chromium	9.54
Nickel	5.87
Copper	17.9
Zinc	21.3
Arsenic	4.35
Selenium	<0.912
Silver	<0.0784 j
Cadmium	<0.204 j
Antimony	2.70
Barium	35.5
Thallium	0.0571
Lead	4.36

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-7S-1.0	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/28/13	Lab ID:	306220-07
Date Analyzed:	06/28/13	Data File:	306220-07.074
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	98	60	125
Indium	91	60	125
Holmium	97	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.159
Chromium	13.2
Nickel	11.0
Copper	29.5
Zinc	93.0
Arsenic	13.2
Selenium	<0.912
Silver	0.104
Cadmium	0.918
Antimony	6.26
Barium	62.6
Thallium	<0.0434 j
Lead	58.5

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-7S-5.0	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/28/13	Lab ID:	306220-08
Date Analyzed:	06/28/13	Data File:	306220-08.075
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	95	60	125
Indium	88	60	125
Holmium	95	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	<0.086
Chromium	5.12
Nickel	3.45
Copper	6.89
Zinc	11.7
Arsenic	1.33
Selenium	<0.912
Silver	<0.0784 j
Cadmium	<0.204 j
Antimony	0.498
Barium	12.5
Thallium	<0.0434 j
Lead	1.17

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-7S-10.0	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/28/13	Lab ID:	306220-10
Date Analyzed:	06/28/13	Data File:	306220-10.076
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	98	60	125
Indium	82	60	125
Holmium	95	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.232
Chromium	9.88
Nickel	10.3
Copper	17.4
Zinc	25.6
Arsenic	3.67
Selenium	<0.912
Silver	<0.0784 j
Cadmium	<0.204 j
Antimony	0.455
Barium	32.3
Thallium	<0.0434 j
Lead	2.97

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-5S-1.0	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/28/13	Lab ID:	306220-13
Date Analyzed:	06/28/13	Data File:	306220-13.077
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	106	60	125
Indium	91	60	125
Holmium	96	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.122
Chromium	9.35
Nickel	11.5
Copper	15.6
Zinc	17.3
Arsenic	3.16
Selenium	<0.912
Silver	<0.0784 j
Cadmium	<0.204 j
Antimony	0.269
Barium	29.4
Thallium	<0.0434 j
Lead	3.19

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-5S-7.50	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/28/13	Lab ID:	306220-15
Date Analyzed:	06/28/13	Data File:	306220-15.064
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	104	60	125
Indium	95	60	125
Holmium	97	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.113
Chromium	5.52
Nickel	4.87
Copper	10.5
Zinc	16.9
Arsenic	2.44
Selenium	<0.912
Silver	<0.0784 j
Cadmium	<0.204 j
Antimony	0.690
Barium	22.8
Thallium	<0.0434 j
Lead	4.79

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-5S-10.0	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/28/13	Lab ID:	306220-16
Date Analyzed:	06/28/13	Data File:	306220-16.079
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	113	60	125
Indium	101	60	125
Holmium	108	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.172
Chromium	8.12
Nickel	6.41
Copper	13.2
Zinc	21.1
Arsenic	2.93
Selenium	<0.912
Silver	<0.0784 j
Cadmium	<0.204 j
Antimony	0.369
Barium	33.1
Thallium	0.0707
Lead	2.89

Analysis For Total Metals By EPA Method 200.8

Client ID:	EB-51-1.0	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/28/13	Lab ID:	306220-18
Date Analyzed:	06/28/13	Data File:	306220-18.080
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	115	60	125
Indium	100	60	125
Holmium	108	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.115
Chromium	12.2
Nickel	20.8
Copper	10.5
Zinc	17.3
Arsenic	2.68
Selenium	<0.912
Silver	<0.0784 j
Cadmium	<0.204 j
Antimony	0.344
Barium	29.1
Thallium	<0.0434 j
Lead	2.41

Analysis For Total Metals By EPA Method 200.8

Client ID:	EB-51-5.0	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/28/13	Lab ID:	306220-20
Date Analyzed:	06/28/13	Data File:	306220-20.081
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	121	60	125
Indium	106	60	125
Holmium	108	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.145
Chromium	16.5
Nickel	18.4
Copper	52.5
Zinc	136
Arsenic	50.4
Selenium	<0.912
Silver	0.102
Cadmium	0.360
Antimony	25.7
Barium	46.6
Thallium	<0.0434 j
Lead	54.2

Analysis For Total Metals By EPA Method 200.8

Client ID:	EB-51-7.5	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/28/13	Lab ID:	306220-21
Date Analyzed:	06/28/13	Data File:	306220-21.082
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	104	60	125
Indium	88	60	125
Holmium	94	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.223
Chromium	23.6
Nickel	42.9
Copper	28.8
Zinc	47.1
Arsenic	6.49
Selenium	<0.912
Silver	0.107
Cadmium	0.512
Antimony	1.40
Barium	76.3
Thallium	0.0787
Lead	14.9

Analysis For Total Metals By EPA Method 200.8

Client ID:	EB-51-10.0	Client:	SLR International Corp.
Date Received:	06/13/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/28/13	Lab ID:	306220-22
Date Analyzed:	06/28/13	Data File:	306220-22.083
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	97	60	125
Indium	85	60	125
Holmium	89	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.164
Chromium	16.9
Nickel	20.5
Copper	50.7
Zinc	161
Arsenic	36.7
Selenium	<0.912
Silver	0.132
Cadmium	0.668
Antimony	28.6
Barium	39.3
Thallium	0.0536
Lead	92.5

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/28/13	Lab ID:	I3-385 mb
Date Analyzed:	06/28/13	Data File:	I3-385 mb.069
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	102	60	125
Indium	101	60	125
Holmium	107	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	<0.086
Chromium	<0.47
Nickel	<0.206
Copper	<0.600 j
Zinc	<0.97
Arsenic	<0.422
Selenium	<0.912
Silver	<0.0784 j
Cadmium	<0.204 j
Antimony	<0.106
Barium	<0.0524 j
Thallium	<0.0434 j
Lead	<0.0496 j

Date of Report: 07/30/13
Date Received: 06/13/13
Project: Crowley RIFS 101.00205.00019, F&BI 306220
Date Extracted: 06/28/13 and 07/01/13
Date Analyzed: 06/28/13 and 07/03/13

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Total Mercury
EMW-9S-1.0 306220-01	0.013
EMW-9S-5.0 306220-03	0.045
EMW-9S-10.0 306220-05	0.042
EMW-7S-1.0 306220-07	0.029
EMW-7S-5.0 306220-08	0.0054
EMW-7S-10.0 306220-10	0.13
EMW-7S-12.5 306220-11	0.030
EMW-5S-1.0 306220-13	0.032
EMW-5S-7.50 306220-15	0.074
EMW-5S-10.0 306220-16	0.021
EB-51-1.0 306220-18	0.029
EB-51-5.0 306220-20	0.045

Date of Report: 07/30/13
Date Received: 06/13/13
Project: Crowley RIFS 101.00205.00019, F&BI 306220
Date Extracted: 06/28/13 and 07/01/13
Date Analyzed: 06/28/13 and 07/03/13

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Total Mercury
EB-51-7.5 306220-21	0.039
EB-51-10.0 306220-22	0.067
Method Blank	<0.002
Method Blank	<0.002

Date of Report: 07/30/13
Date Received: 06/13/13
Project: Crowley RIFS 101.00205.00019, F&BI 306220

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TPH AS GASOLINE USING METHOD NWTPH-Gx

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Gasoline	mg/kg (ppm)	20	90	90	61-153	0

Date of Report: 07/30/13
Date Received: 06/13/13
Project: Crowley RIFS 101.00205.00019, F&BI 306220

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TPH AS GASOLINE USING METHOD NWTPH-Gx

Laboratory Code: 306419-31 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Gasoline	mg/kg (ppm)	0.204	<0.20	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	mg/kg (ppm)	20	90	61-153

Date of Report: 07/30/13
Date Received: 06/13/13
Project: Crowley RIFS 101.00205.00019, F&BI 306220

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 306292-03 (Matrix Spike) Silica Gel

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	500	150	79	85	64-133	7

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	500	99	58-147

Date of Report: 07/30/13
Date Received: 06/13/13
Project: Crowley RIFS 101.00205.00019, F&BI 306220

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 306220-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	mg/kg (ppm)	2.5	<0.02	31	26	10-56	18
Chloromethane	mg/kg (ppm)	2.5	<0.026	59	55	10-90	7
Vinyl chloride	mg/kg (ppm)	2.5	<0.016	63	58	10-91	8
Bromomethane	mg/kg (ppm)	2.5	<0.034	90	110	10-110	20
Chloroethane	mg/kg (ppm)	2.5	<0.024	77	73	10-101	5
Trichlorofluoromethane	mg/kg (ppm)	2.5	<0.02	74	72	10-95	3
Acetone	mg/kg (ppm)	12.5	<0.2	92	90	11-141	2
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.026	77	76	11-103	1
Methylene chloride	mg/kg (ppm)	2.5	<0.054	96	90	14-128	6
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2.5	<0.013	100	100	17-134	0
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.024	85	85	13-112	0
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.017	87	88	23-115	1
2,2-Dichloropropane	mg/kg (ppm)	2.5	<0.026	101	104	18-117	3
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.022	89	89	25-120	0
Chloroform	mg/kg (ppm)	2.5	<0.017	89	89	29-117	0
2-Butanone (MEK)	mg/kg (ppm)	12.5	<0.14	94	96	20-133	2
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.016	90	90	22-124	0
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.022	93	98	27-112	5
1,1-Dichloropropene	mg/kg (ppm)	2.5	<0.024	85	86	26-107	1
Carbon tetrachloride	mg/kg (ppm)	2.5	<0.03	100	110	22-115	10
Benzene	mg/kg (ppm)	2.5	<0.014	86	88	26-114	2
Trichloroethene	mg/kg (ppm)	2.5	<0.034	88	89	30-112	1
1,2-Dichloropropane	mg/kg (ppm)	2.5	<0.034	92	95	31-119	3
Bromodichloromethane	mg/kg (ppm)	2.5	<0.024	96	103	31-131	7
Dibromomethane	mg/kg (ppm)	2.5	<0.022	94	97	27-124	3
4-Methyl-2-pentanone	mg/kg (ppm)	12.5	<0.14	102	104	16-147	2
cis-1,3-Dichloropropene	mg/kg (ppm)	2.5	<0.022	106	115	28-137	8
Toluene	mg/kg (ppm)	2.5	<0.017	86	87	34-112	1
trans-1,3-Dichloropropene	mg/kg (ppm)	2.5	<0.015	98	106	30-136	8
1,1,2-Trichloroethane	mg/kg (ppm)	2.5	<0.014	94	96	32-126	2
2-Hexanone	mg/kg (ppm)	12.5	<0.096	100	102	17-147	2
1,3-Dichloropropane	mg/kg (ppm)	2.5	<0.02	93	94	29-125	1
Tetrachloroethene	mg/kg (ppm)	2.5	<0.026	85	86	27-110	1
Dibromochloromethane	mg/kg (ppm)	2.5	<0.026	94	102	32-143	8
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2.5	<0.03	110	117	32-126	6
Chlorobenzene	mg/kg (ppm)	2.5	<0.014	89	89	37-113	0
Ethylbenzene	mg/kg (ppm)	2.5	<0.013	88	89	38-111	1
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	2.5	<0.028	105	113	35-126	7
m,p-Xylene	mg/kg (ppm)	5	<0.03	89	90	38-112	1
o-Xylene	mg/kg (ppm)	2.5	<0.034	89	90	38-113	1
Styrene	mg/kg (ppm)	2.5	<0.022	92	92	38-118	0
Isopropylbenzene	mg/kg (ppm)	2.5	<0.019	90	90	37-114	0
Bromoform	mg/kg (ppm)	2.5	<0.034	96	105	18-155	9
n-Propylbenzene	mg/kg (ppm)	2.5	<0.017	90	92	36-114	2
Bromobenzene	mg/kg (ppm)	2.5	<0.012	89	91	40-115	2
1,3,5-Trimethylbenzene	mg/kg (ppm)	2.5	<0.011	91	92	35-116	1
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	2.5	<0.036	97	101	33-128	4
1,2,3-Trichloropropane	mg/kg (ppm)	2.5	<0.022	92	95	33-123	3
2-Chlorotoluene	mg/kg (ppm)	2.5	<0.016	88	89	39-110	1
4-Chlorotoluene	mg/kg (ppm)	2.5	<0.019	90	91	39-111	1
tert-Butylbenzene	mg/kg (ppm)	2.5	<0.022	91	92	36-116	1
1,2,4-Trimethylbenzene	mg/kg (ppm)	2.5	<0.016	90	91	35-116	1
sec-Butylbenzene	mg/kg (ppm)	2.5	<0.015	91	92	33-118	1
p-Isopropyltoluene	mg/kg (ppm)	2.5	<0.012	91	92	32-119	1
1,3-Dichlorobenzene	mg/kg (ppm)	2.5	<0.02	88	89	38-111	1
1,4-Dichlorobenzene	mg/kg (ppm)	2.5	<0.032	88	88	39-109	0
1,2-Dichlorobenzene	mg/kg (ppm)	2.5	<0.016	87	88	40-111	1
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	2.5	<0.08	95	103	34-134	8
1,2,4-Trichlorobenzene	mg/kg (ppm)	2.5	<0.036	84	84	31-117	0
Hexachlorobutadiene	mg/kg (ppm)	2.5	<0.04	78	80	25-122	3
Naphthalene	mg/kg (ppm)	2.5	<0.024	90	90	39-120	0
1,2,3-Trichlorobenzene	mg/kg (ppm)	2.5	<0.019	80	80	35-117	0

Date of Report: 07/30/13
Date Received: 06/13/13
Project: Crowley RIFS 101.00205.00019, F&BI 306220

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Dichlorodifluoromethane	mg/kg (ppm)	2.5	43	10-76
Chloromethane	mg/kg (ppm)	2.5	69	34-98
Vinyl chloride	mg/kg (ppm)	2.5	75	42-107
Bromomethane	mg/kg (ppm)	2.5	91	46-113
Chloroethane	mg/kg (ppm)	2.5	87	47-115
Trichlorofluoromethane	mg/kg (ppm)	2.5	90	53-112
Acetone	mg/kg (ppm)	12.5	118	39-147
1,1-Dichloroethene	mg/kg (ppm)	2.5	89	65-110
Methylene chloride	mg/kg (ppm)	2.5	103	62-119
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2.5	107	72-122
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	97	71-113
1,1-Dichloroethane	mg/kg (ppm)	2.5	97	76-109
2,2-Dichloropropane	mg/kg (ppm)	2.5	122	64-151
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	97	77-110
Chloroform	mg/kg (ppm)	2.5	96	78-108
2-Butanone (MEK)	mg/kg (ppm)	12.5	109	60-121
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	96	80-109
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	109	72-116
1,1-Dichloropropene	mg/kg (ppm)	2.5	94	77-108
Carbon tetrachloride	mg/kg (ppm)	2.5	123	67-123
Benzene	mg/kg (ppm)	2.5	95	75-107
Trichloroethene	mg/kg (ppm)	2.5	95	72-107
1,2-Dichloropropane	mg/kg (ppm)	2.5	100	78-111
Bromodichloromethane	mg/kg (ppm)	2.5	110	75-126
Dibromomethane	mg/kg (ppm)	2.5	103	80-111
4-Methyl-2-pentanone	mg/kg (ppm)	12.5	109	80-128
cis-1,3-Dichloropropene	mg/kg (ppm)	2.5	120	71-138
Toluene	mg/kg (ppm)	2.5	94	79-112
trans-1,3-Dichloropropene	mg/kg (ppm)	2.5	110	77-135
1,1,2-Trichloroethane	mg/kg (ppm)	2.5	101	84-115
2-Hexanone	mg/kg (ppm)	12.5	110	71-129
1,3-Dichloropropane	mg/kg (ppm)	2.5	98	82-113
Tetrachloroethene	mg/kg (ppm)	2.5	94	77-110
Dibromochloromethane	mg/kg (ppm)	2.5	111	64-152
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2.5	123 vo	83-116
Chlorobenzene	mg/kg (ppm)	2.5	96	82-113
Ethylbenzene	mg/kg (ppm)	2.5	96	81-114
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	2.5	126 vo	76-125
m,p-Xylene	mg/kg (ppm)	5	98	82-115
o-Xylene	mg/kg (ppm)	2.5	99	81-116
Styrene	mg/kg (ppm)	2.5	100	81-118
Isopropylbenzene	mg/kg (ppm)	2.5	99	81-117
Bromoform	mg/kg (ppm)	2.5	113	50-174
n-Propylbenzene	mg/kg (ppm)	2.5	100	82-116
Bromobenzene	mg/kg (ppm)	2.5	96	82-118
1,3,5-Trimethylbenzene	mg/kg (ppm)	2.5	102	83-120
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	2.5	107	83-125
1,2,3-Trichloropropane	mg/kg (ppm)	2.5	100	79-116
2-Chlorotoluene	mg/kg (ppm)	2.5	97	80-114
4-Chlorotoluene	mg/kg (ppm)	2.5	99	82-114
tert-Butylbenzene	mg/kg (ppm)	2.5	101	82-116
1,2,4-Trimethylbenzene	mg/kg (ppm)	2.5	100	82-116
sec-Butylbenzene	mg/kg (ppm)	2.5	101	81-123
p-Isopropyltoluene	mg/kg (ppm)	2.5	102	82-124
1,3-Dichlorobenzene	mg/kg (ppm)	2.5	98	80-118
1,4-Dichlorobenzene	mg/kg (ppm)	2.5	97	79-117
1,2-Dichlorobenzene	mg/kg (ppm)	2.5	96	80-118
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	2.5	115	71-131
1,2,4-Trichlorobenzene	mg/kg (ppm)	2.5	94	75-122
Hexachlorobutadiene	mg/kg (ppm)	2.5	93	74-130
Naphthalene	mg/kg (ppm)	2.5	100	83-128
1,2,3-Trichlorobenzene	mg/kg (ppm)	2.5	91	80-126

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 306247-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Dichlorodifluoromethane	ug/L (ppb)	50	<0.16	105	55-144
Chloromethane	ug/L (ppb)	50	<0.22	104	67-131
Vinyl chloride	ug/L (ppb)	50	0.52	106	61-139
Bromomethane	ug/L (ppb)	50	<0.2	635 vo	66-129
Chloroethane	ug/L (ppb)	50	<0.18	191 vo	68-126
Trichlorofluoromethane	ug/L (ppb)	50	<0.17	136 vo	71-128
Acetone	ug/L (ppb)	250	<2.6	109	48-149
1,1-Dichloroethene	ug/L (ppb)	50	<0.19	105	71-123
Methylene chloride	ug/L (ppb)	50	<3	101	61-126
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	<0.13	106	68-125
trans-1,2-Dichloroethene	ug/L (ppb)	50	<0.24	104	72-122
1,1-Dichloroethane	ug/L (ppb)	50	<0.18	103	79-113
2,2-Dichloropropane	ug/L (ppb)	50	<0.3	119	58-132
cis-1,2-Dichloroethene	ug/L (ppb)	50	3.6	102	73-119
Chloroform	ug/L (ppb)	50	<0.24	100	80-112
2-Butanone (MEK)	ug/L (ppb)	250	<0.94	105	69-123
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<0.11	100	78-113
1,1,1-Trichloroethane	ug/L (ppb)	50	<0.2	113	79-116
1,1-Dichloropropene	ug/L (ppb)	50	<0.26	99	67-121
Carbon tetrachloride	ug/L (ppb)	50	<0.24	128 vo	72-123
Benzene	ug/L (ppb)	50	<0.13	98	79-109
Trichloroethene	ug/L (ppb)	50	1.4	100	75-109
1,2-Dichloropropane	ug/L (ppb)	50	<0.32	101	80-111
Bromodichloromethane	ug/L (ppb)	50	<0.38	116	78-117
Dibromomethane	ug/L (ppb)	50	<0.28	106	80-112
4-Methyl-2-pentanone	ug/L (ppb)	250	<1.3	111	79-123
cis-1,3-Dichloropropene	ug/L (ppb)	50	<0.2	116	76-120
Toluene	ug/L (ppb)	50	<0.13	96	73-117
trans-1,3-Dichloropropene	ug/L (ppb)	50	<0.34	105	75-122
1,1,2-Trichloroethane	ug/L (ppb)	50	<0.28	102	81-111
2-Hexanone	ug/L (ppb)	250	<1	111	75-126
1,3-Dichloropropane	ug/L (ppb)	50	<0.2	100	81-111
Tetrachloroethene	ug/L (ppb)	50	<0.28	97	72-113
Dibromochloromethane	ug/L (ppb)	50	<0.24	113	69-129
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	<0.24	124 vo	83-114
Chlorobenzene	ug/L (ppb)	50	<0.1	98	75-115
Ethylbenzene	ug/L (ppb)	50	<0.16	98	71-120
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	<0.32	128 vo	78-122
m,p-Xylene	ug/L (ppb)	100	<0.5	100	63-128
o-Xylene	ug/L (ppb)	50	<0.22	100	64-129
Styrene	ug/L (ppb)	50	<0.22	101	70-122
Isopropylbenzene	ug/L (ppb)	50	<0.15	101	76-118
Bromoform	ug/L (ppb)	50	<0.22	117	49-138
n-Propylbenzene	ug/L (ppb)	50	<0.14	99	74-117
Bromobenzene	ug/L (ppb)	50	<0.18	98	70-121
1,3,5-Trimethylbenzene	ug/L (ppb)	50	<0.18	102	81-112
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	<0.24	109	79-120
1,2,3-Trichloropropane	ug/L (ppb)	50	<0.28	101	72-119
2-Chlorotoluene	ug/L (ppb)	50	<0.13	97	77-114
4-Chlorotoluene	ug/L (ppb)	50	<0.16	98	81-109
tert-Butylbenzene	ug/L (ppb)	50	<0.15	101	81-116
1,2,4-Trimethylbenzene	ug/L (ppb)	50	<0.11	101	74-118
sec-Butylbenzene	ug/L (ppb)	50	<0.12	101	77-118
p-Isopropyltoluene	ug/L (ppb)	50	<0.15	101	64-132
1,3-Dichlorobenzene	ug/L (ppb)	50	<0.15	97	81-111
1,4-Dichlorobenzene	ug/L (ppb)	50	<0.094	97	78-110
1,2-Dichlorobenzene	ug/L (ppb)	50	<0.13	97	81-111
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	<0.44	112	69-129
1,2,4-Trichlorobenzene	ug/L (ppb)	50	<0.34	94	74-115
Hexachlorobutadiene	ug/L (ppb)	50	<0.46	89	67-120
Naphthalene	ug/L (ppb)	50	<0.28	102	63-136
1,2,3-Trichlorobenzene	ug/L (ppb)	50	<0.38	90	79-115

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	ug/L (ppb)	50	100	104	54-149	4
Chloromethane	ug/L (ppb)	50	97	102	67-133	5
Vinyl chloride	ug/L (ppb)	50	98	103	73-132	5
Bromomethane	ug/L (ppb)	50	604 vo	614 vo	69-123	2
Chloroethane	ug/L (ppb)	50	175 vo	186 vo	68-126	6
Trichlorofluoromethane	ug/L (ppb)	50	123	132	70-132	7
Acetone	ug/L (ppb)	250	102	110	44-145	8
1,1-Dichloroethene	ug/L (ppb)	50	100	106	75-119	6
Methylene chloride	ug/L (ppb)	50	98	104	63-132	6
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	91	98	70-122	7
trans-1,2-Dichloroethene	ug/L (ppb)	50	98	104	76-118	6
1,1-Dichloroethane	ug/L (ppb)	50	96	102	80-116	6
2,2-Dichloropropane	ug/L (ppb)	50	111	125	62-141	12
cis-1,2-Dichloroethene	ug/L (ppb)	50	95	100	81-111	5
Chloroform	ug/L (ppb)	50	118 vo	124 vo	81-109	5
2-Butanone (MEK)	ug/L (ppb)	250	98	101	53-140	3
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	93	98	79-109	5
1,1,1-Trichloroethane	ug/L (ppb)	50	106	113	80-116	6
1,1-Dichloropropene	ug/L (ppb)	50	94	99	78-112	5
Carbon tetrachloride	ug/L (ppb)	50	128	136 vo	72-128	6
Benzene	ug/L (ppb)	50	93	96	81-108	3
Trichloroethene	ug/L (ppb)	50	94	99	77-108	5
1,2-Dichloropropane	ug/L (ppb)	50	96	101	82-109	5
Bromodichloromethane	ug/L (ppb)	50	116	121 vo	76-120	4
Dibromomethane	ug/L (ppb)	50	100	105	80-110	5
4-Methyl-2-pentanone	ug/L (ppb)	250	104	110	59-142	6
cis-1,3-Dichloropropene	ug/L (ppb)	50	113	120	76-128	6
Toluene	ug/L (ppb)	50	92	96	83-108	4
trans-1,3-Dichloropropene	ug/L (ppb)	50	104	108	76-128	4
1,1,2-Trichloroethane	ug/L (ppb)	50	97	101	82-110	4
2-Hexanone	ug/L (ppb)	250	99	105	53-145	6
1,3-Dichloropropane	ug/L (ppb)	50	94	99	83-110	5
Tetrachloroethene	ug/L (ppb)	50	91	94	78-109	3
Dibromochloromethane	ug/L (ppb)	50	118	123	63-140	4
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	118 vo	124 vo	85-113	5
Chlorobenzene	ug/L (ppb)	50	92	96	84-108	4
Ethylbenzene	ug/L (ppb)	50	93	97	84-110	4
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	128 vo	135 vo	76-125	5
m,p-Xylene	ug/L (ppb)	100	95	99	84-112	4
o-Xylene	ug/L (ppb)	50	94	100	82-113	6
Styrene	ug/L (ppb)	50	96	101	84-116	5
Isopropylbenzene	ug/L (ppb)	50	95	100	81-122	5
Bromoform	ug/L (ppb)	50	127	130	40-161	2
n-Propylbenzene	ug/L (ppb)	50	95	99	81-115	4
Bromobenzene	ug/L (ppb)	50	93	96	80-113	3
1,3,5-Trimethylbenzene	ug/L (ppb)	50	97	102	83-117	5
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	105	110	79-118	5
1,2,3-Trichloropropane	ug/L (ppb)	50	96	100	74-116	4
2-Chlorotoluene	ug/L (ppb)	50	94	97	79-112	3
4-Chlorotoluene	ug/L (ppb)	50	94	98	81-113	4
tert-Butylbenzene	ug/L (ppb)	50	97	101	81-119	4
1,2,4-Trimethylbenzene	ug/L (ppb)	50	96	100	83-116	4
sec-Butylbenzene	ug/L (ppb)	50	97	102	83-116	5
p-Isopropyltoluene	ug/L (ppb)	50	98	102	82-119	4
1,3-Dichlorobenzene	ug/L (ppb)	50	92	97	83-111	5
1,4-Dichlorobenzene	ug/L (ppb)	50	92	95	82-109	3
1,2-Dichlorobenzene	ug/L (ppb)	50	92	96	83-111	4
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	124	125	62-133	1
1,2,4-Trichlorobenzene	ug/L (ppb)	50	93	95	77-117	2
Hexachlorobutadiene	ug/L (ppb)	50	89	95	74-118	7
Naphthalene	ug/L (ppb)	50	98	102	75-131	4
1,2,3-Trichlorobenzene	ug/L (ppb)	50	91	94	82-115	3

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270D

Laboratory Code: 306220-16 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Phenol	mg/kg (ppm)	1.7	<0.0054	75	75	50-150	0
Bis(2-chloroethyl) ether	mg/kg (ppm)	1.7	<0.0016	71	72	50-150	1
2-Chlorophenol	mg/kg (ppm)	1.7	<0.0062	75	74	50-150	1
1,3-Dichlorobenzene	mg/kg (ppm)	1.7	<0.0026	56	62	50-150	10
1,4-Dichlorobenzene	mg/kg (ppm)	1.7	<0.0024	58	63	50-150	8
1,2-Dichlorobenzene	mg/kg (ppm)	1.7	<0.004	62	65	50-150	5
Benzyl alcohol	mg/kg (ppm)	1.7	0.0099	72	81	50-150	12
Bis(2-chloroisopropyl) ether	mg/kg (ppm)	1.7	<0.0016	65	66	50-150	2
2-Methylphenol	mg/kg (ppm)	1.7	<0.0064	75	74	50-150	1
Hexachloroethane	mg/kg (ppm)	1.7	<0.0034	56	61	50-150	9
N-Nitroso-di-n-propylamine	mg/kg (ppm)	1.7	<0.003	75	77	50-150	3
3-Methylphenol + 4-Methylphenol	mg/kg (ppm)	1.7	<0.014	75	75	50-150	0
Nitrobenzene	mg/kg (ppm)	1.7	<0.0026	72	73	50-150	1
Isophorone	mg/kg (ppm)	1.7	<0.0012	74	73	50-150	1
2-Nitrophenol	mg/kg (ppm)	1.7	<0.0082	83	83	50-150	0
2,4-Dimethylphenol	mg/kg (ppm)	1.7	<0.019	73	68	50-150	7
Benzoic acid	mg/kg (ppm)	2.5	<0.055	18 vo	23 vo	50-150	24 vo
Bis(2-chloroethoxy)methane	mg/kg (ppm)	1.7	<0.0014	72	72	50-150	0
2,4-Dichlorophenol	mg/kg (ppm)	1.7	<0.0058	80	81	50-150	1
1,2,4-Trichlorobenzene	mg/kg (ppm)	1.7	<0.0034	70	70	50-150	0
Hexachlorobutadiene	mg/kg (ppm)	1.7	<0.002	66	68	50-150	3
4-Chloroaniline	mg/kg (ppm)	3.3	<0.18	48 vo	42 vo	50-150	13
4-Chloro-3-methylphenol	mg/kg (ppm)	1.7	<0.0044	80	83	50-150	4
2-Methylnaphthalene	mg/kg (ppm)	1.7	<0.001	71	71	50-150	0
Hexachlorocyclopentadiene	mg/kg (ppm)	1.7	<0.0022	47 vo	39 vo	50-150	19
2,4,6-Trichlorophenol	mg/kg (ppm)	1.7	<0.008	80	80	50-150	0
2,4,5-Trichlorophenol	mg/kg (ppm)	1.7	<0.0096	81	82	50-150	1
2-Chloronaphthalene	mg/kg (ppm)	1.7	<0.0014	75	74	50-150	1
2-Nitroaniline	mg/kg (ppm)	1.7	<0.0026	83	84	50-150	1
Dimethyl phthalate	mg/kg (ppm)	1.7	<0.0012	80	79	50-150	1
2,6-Dinitrotoluene	mg/kg (ppm)	1.7	<0.0018	86	85	50-150	1
3-Nitroaniline	mg/kg (ppm)	3.3	<0.017	52	48 vo	50-150	8
2,4-Dinitrophenol	mg/kg (ppm)	1.7	<0.014	37 vo	31 vo	50-150	18
Dibenzofuran	mg/kg (ppm)	1.7	<0.001	78	76	50-150	3
2,4-Dinitrotoluene	mg/kg (ppm)	1.7	<0.0016	81	81	50-150	0
4-Nitrophenol	mg/kg (ppm)	1.7	<0.018	63	111	50-150	55 vo
Diethyl phthalate	mg/kg (ppm)	1.7	<0.004	78	78	50-150	0
4-Chlorophenyl phenyl ether	mg/kg (ppm)	1.7	<0.0016	74	73	50-150	1
N-Nitrosodiphenylamine	mg/kg (ppm)	1.7	<0.001	79	77	50-150	3
4-Nitroaniline	mg/kg (ppm)	3.3	<0.018	51	56	50-150	9
4,6-Dinitro-2-methylphenol	mg/kg (ppm)	1.7	<0.011	67	56	50-150	18
4-Bromophenyl phenyl ether	mg/kg (ppm)	1.7	<0.0016	80	79	50-150	1
Hexachlorobenzene	mg/kg (ppm)	1.7	<0.001	79	77	50-150	3
Pentachlorophenol	mg/kg (ppm)	1.7	<0.0062 j	74	75	50-150	1
Carbazole	mg/kg (ppm)	1.7	<0.002	72	73	50-150	1
Di-n-butyl phthalate	mg/kg (ppm)	1.7	<0.02	78	75	50-150	4
Benzyl butyl phthalate	mg/kg (ppm)	1.7	<0.0058	92	89	50-150	3
Bis(2-ethylhexyl) phthalate	mg/kg (ppm)	1.7	<0.013	86	83	50-150	4
Di-n-octyl phthalate	mg/kg (ppm)	1.7	<0.0034	91	89	50-150	2

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270D

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Phenol	mg/kg (ppm)	1.7	81	84	51-119	4
Bis(2-chloroethyl) ether	mg/kg (ppm)	1.7	82	83	60-112	1
2-Chlorophenol	mg/kg (ppm)	1.7	87	91	59-114	4
1,3-Dichlorobenzene	mg/kg (ppm)	1.7	84	88	62-113	5
1,4-Dichlorobenzene	mg/kg (ppm)	1.7	84	88	61-114	5
1,2-Dichlorobenzene	mg/kg (ppm)	1.7	85	88	61-113	3
Benzyl alcohol	mg/kg (ppm)	1.7	87	92	50-119	6
Bis(2-chloroisopropyl) ether	mg/kg (ppm)	1.7	77	80	59-113	4
2-Methylphenol	mg/kg (ppm)	1.7	84	87	58-115	4
Hexachloroethane	mg/kg (ppm)	1.7	85	90	63-114	6
N-Nitroso-di-n-propylamine	mg/kg (ppm)	1.7	85	91	62-114	7
3-Methylphenol + 4-Methylphenol	mg/kg (ppm)	1.7	86	89	54-120	3
Nitrobenzene	mg/kg (ppm)	1.7	84	90	59-114	7
Isophorone	mg/kg (ppm)	1.7	89	96	61-113	8
2-Nitrophenol	mg/kg (ppm)	1.7	96	103	59-114	7
2,4-Dimethylphenol	mg/kg (ppm)	1.7	77	75	54-107	3
Benzoic acid	mg/kg (ppm)	2.5	112	118	43-150	5
Bis(2-chloroethoxy)methane	mg/kg (ppm)	1.7	86	90	60-114	5
2,4-Dichlorophenol	mg/kg (ppm)	1.7	94	97	57-118	3
1,2,4-Trichlorobenzene	mg/kg (ppm)	1.7	88	91	56-112	3
Hexachlorobutadiene	mg/kg (ppm)	1.7	87	91	60-116	4
4-Chloroaniline	mg/kg (ppm)	3.3	50	52	10-126	4
4-Chloro-3-methylphenol	mg/kg (ppm)	1.7	96	101	59-115	5
2-Methylnaphthalene	mg/kg (ppm)	1.7	86	89	60-115	3
Hexachlorocyclopentadiene	mg/kg (ppm)	1.7	97	98	41-107	1
2,4,6-Trichlorophenol	mg/kg (ppm)	1.7	93	97	47-119	4
2,4,5-Trichlorophenol	mg/kg (ppm)	1.7	102	104	61-121	2
2-Chloronaphthalene	mg/kg (ppm)	1.7	92	95	58-114	3
2-Nitroaniline	mg/kg (ppm)	1.7	99	102	55-119	3
Dimethyl phthalate	mg/kg (ppm)	1.7	99	101	58-116	2
2,6-Dinitrotoluene	mg/kg (ppm)	1.7	104	109	57-119	5
3-Nitroaniline	mg/kg (ppm)	3.3	78	82	10-143	5
2,4-Dinitrophenol	mg/kg (ppm)	1.7	116	119	40-122	3
Dibenzofuran	mg/kg (ppm)	1.7	94	98	56-115	4
2,4-Dinitrotoluene	mg/kg (ppm)	1.7	101	102	53-126	1
4-Nitrophenol	mg/kg (ppm)	1.7	97	98	40-124	1
Diethyl phthalate	mg/kg (ppm)	1.7	99	99	57-116	0
4-Chlorophenyl phenyl ether	mg/kg (ppm)	1.7	94	96	54-119	2
N-Nitrosodiphenylamine	mg/kg (ppm)	1.7	87	93	54-113	7
4-Nitroaniline	mg/kg (ppm)	3.3	85	90	47-109	6
4,6-Dinitro-2-methylphenol	mg/kg (ppm)	1.7	111 vo	116 vo	57-108	4
4-Bromophenyl phenyl ether	mg/kg (ppm)	1.7	96	101	56-116	5
Hexachlorobenzene	mg/kg (ppm)	1.7	93	97	57-115	4
Pentachlorophenol	mg/kg (ppm)	1.7	94	97	45-123	3
Carbazole	mg/kg (ppm)	1.7	90	95	57-116	5
Di-n-butyl phthalate	mg/kg (ppm)	1.7	98	103	56-118	5
Benzyl butyl phthalate	mg/kg (ppm)	1.7	103	107	56-122	4
Bis(2-ethylhexyl) phthalate	mg/kg (ppm)	1.7	101	99	56-125	2
Di-n-octyl phthalate	mg/kg (ppm)	1.7	126 vo	109	58-120	14

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270D

Laboratory Code: 306220-17 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Phenol	mg/kg (ppm)	1.7	64	62	50-150	3
Bis(2-chloroethyl) ether	mg/kg (ppm)	1.7	55	61	50-150	10
2-Chlorophenol	mg/kg (ppm)	1.7	61	66	50-150	8
1,3-Dichlorobenzene	mg/kg (ppm)	1.7	46 vo	63	50-150	31 vo
1,4-Dichlorobenzene	mg/kg (ppm)	1.7	46 vo	64	50-150	33 vo
1,2-Dichlorobenzene	mg/kg (ppm)	1.7	49 vo	64	50-150	27 vo
Benzyl alcohol	mg/kg (ppm)	1.7	62	69	50-150	11
Bis(2-chloroisopropyl) ether	mg/kg (ppm)	1.7	50	59	50-150	17
2-Methylphenol	mg/kg (ppm)	1.7	61	61	50-150	0
Hexachloroethane	mg/kg (ppm)	1.7	36 vo	62	50-150	53 vo
N-Nitroso-di-n-propylamine	mg/kg (ppm)	1.7	57	60	50-150	5
3-Methylphenol + 4-Methylphenol	mg/kg (ppm)	1.7	62	62	50-150	0
Nitrobenzene	mg/kg (ppm)	1.7	58	68	50-150	16
Isophorone	mg/kg (ppm)	1.7	64	72	50-150	12
2-Nitrophenol	mg/kg (ppm)	1.7	60	75	50-150	22 vo
2,4-Dimethylphenol	mg/kg (ppm)	1.7	56	58	50-150	4
Benzoic acid	mg/kg (ppm)	2.5	17 vo	31 vo	50-150	58 vo
Bis(2-chloroethoxy)methane	mg/kg (ppm)	1.7	61	71	50-150	15
2,4-Dichlorophenol	mg/kg (ppm)	1.7	68	72	50-150	6
1,2,4-Trichlorobenzene	mg/kg (ppm)	1.7	57	71	50-150	22 vo
Hexachlorobutadiene	mg/kg (ppm)	1.7	53	72	50-150	30 vo
4-Chloroaniline	mg/kg (ppm)	3.3	56	57	50-150	2
4-Chloro-3-methylphenol	mg/kg (ppm)	1.7	72	72	50-150	0
2-Methylnaphthalene	mg/kg (ppm)	1.7	59	68	50-150	14
Hexachlorocyclopentadiene	mg/kg (ppm)	1.7	19 vo	75	50-150	119 vo
2,4,6-Trichlorophenol	mg/kg (ppm)	1.7	71	77	50-150	8
2,4,5-Trichlorophenol	mg/kg (ppm)	1.7	73	77	50-150	5
2-Chloronaphthalene	mg/kg (ppm)	1.7	65	77	50-150	17
2-Nitroaniline	mg/kg (ppm)	1.7	75	76	50-150	1
Dimethyl phthalate	mg/kg (ppm)	1.7	77	84	50-150	9
2,6-Dinitrotoluene	mg/kg (ppm)	1.7	45 vo	52	50-150	14
3-Nitroaniline	mg/kg (ppm)	3.3	60	58	50-150	3
2,4-Dinitrophenol	mg/kg (ppm)	1.7	8 vo	53	50-150	148 vo
Dibenzofuran	mg/kg (ppm)	1.7	70	78	50-150	11
2,4-Dinitrotoluene	mg/kg (ppm)	1.7	78	84	50-150	7
4-Nitrophenol	mg/kg (ppm)	1.7	55	63	50-150	14
Diethyl phthalate	mg/kg (ppm)	1.7	75	80	50-150	6
4-Chlorophenyl phenyl ether	mg/kg (ppm)	1.7	72	79	50-150	9
N-Nitrosodiphenylamine	mg/kg (ppm)	1.7	73	81	50-150	10
4-Nitroaniline	mg/kg (ppm)	3.3	64	66	50-150	3
4,6-Dinitro-2-methylphenol	mg/kg (ppm)	1.7	21 vo	76	50-150	113 vo
4-Bromophenyl phenyl ether	mg/kg (ppm)	1.7	76	86	50-150	12
Hexachlorobenzene	mg/kg (ppm)	1.7	76	87	50-150	13
Pentachlorophenol	mg/kg (ppm)	1.7	64	72	50-150	12
Carbazole	mg/kg (ppm)	1.7	66	74	50-150	11
Di-n-butyl phthalate	mg/kg (ppm)	1.7	69	77	50-150	11
Benzyl butyl phthalate	mg/kg (ppm)	1.7	82	83	50-150	1
Bis(2-ethylhexyl) phthalate	mg/kg (ppm)	1.7	75	80	50-150	6
Di-n-octyl phthalate	mg/kg (ppm)	1.7	83	88	50-150	6

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270D

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Phenol	mg/kg (ppm)	1.7	85	83	51-119	2
Bis(2-chloroethyl) ether	mg/kg (ppm)	1.7	84	81	60-112	4
2-Chlorophenol	mg/kg (ppm)	1.7	88	85	59-114	3
1,3-Dichlorobenzene	mg/kg (ppm)	1.7	84	80	62-113	5
1,4-Dichlorobenzene	mg/kg (ppm)	1.7	83	79	61-114	5
1,2-Dichlorobenzene	mg/kg (ppm)	1.7	86	82	61-113	5
Benzyl alcohol	mg/kg (ppm)	1.7	89	87	50-119	2
Bis(2-chloroisopropyl) ether	mg/kg (ppm)	1.7	80	77	59-113	4
2-Methylphenol	mg/kg (ppm)	1.7	78	81	58-115	4
Hexachloroethane	mg/kg (ppm)	1.7	82	78	63-114	5
N-Nitroso-di-n-propylamine	mg/kg (ppm)	1.7	88	85	62-114	3
3-Methylphenol + 4-Methylphenol	mg/kg (ppm)	1.7	82	81	54-120	1
Nitrobenzene	mg/kg (ppm)	1.7	83	81	59-114	2
Isophorone	mg/kg (ppm)	1.7	86	84	61-113	2
2-Nitrophenol	mg/kg (ppm)	1.7	94	90	59-114	4
2,4-Dimethylphenol	mg/kg (ppm)	1.7	39 vo	56	54-107	36 vo
Benzoic acid	mg/kg (ppm)	2.5	92	94	43-150	2
Bis(2-chloroethoxy)methane	mg/kg (ppm)	1.7	82	80	60-114	2
2,4-Dichlorophenol	mg/kg (ppm)	1.7	88	88	57-118	0
1,2,4-Trichlorobenzene	mg/kg (ppm)	1.7	86	83	56-112	4
Hexachlorobutadiene	mg/kg (ppm)	1.7	86	84	60-116	2
4-Chloroaniline	mg/kg (ppm)	3.3	45	46	10-126	2
4-Chloro-3-methylphenol	mg/kg (ppm)	1.7	89	90	59-115	1
2-Methylnaphthalene	mg/kg (ppm)	1.7	83	82	60-115	1
Hexachlorocyclopentadiene	mg/kg (ppm)	1.7	94	92	41-107	2
2,4,6-Trichlorophenol	mg/kg (ppm)	1.7	93	94	47-119	1
2,4,5-Trichlorophenol	mg/kg (ppm)	1.7	92	92	61-121	0
2-Chloronaphthalene	mg/kg (ppm)	1.7	89	88	58-114	1
2-Nitroaniline	mg/kg (ppm)	1.7	96	95	55-119	1
Dimethyl phthalate	mg/kg (ppm)	1.7	92	94	58-116	2
2,6-Dinitrotoluene	mg/kg (ppm)	1.7	99	100	57-119	1
3-Nitroaniline	mg/kg (ppm)	3.3	73	74	10-143	1
2,4-Dinitrophenol	mg/kg (ppm)	1.7	76	72	40-122	5
Dibenzofuran	mg/kg (ppm)	1.7	88	89	56-115	1
2,4-Dinitrotoluene	mg/kg (ppm)	1.7	100	102	53-126	2
4-Nitrophenol	mg/kg (ppm)	1.7	93	92	40-124	1
Diethyl phthalate	mg/kg (ppm)	1.7	92	93	57-116	1
4-Chlorophenyl phenyl ether	mg/kg (ppm)	1.7	88	89	54-119	1
N-Nitrosodiphenylamine	mg/kg (ppm)	1.7	84	85	54-113	1
4-Nitroaniline	mg/kg (ppm)	3.3	87	85	47-109	2
4,6-Dinitro-2-methylphenol	mg/kg (ppm)	1.7	76	73	57-108	4
4-Bromophenyl phenyl ether	mg/kg (ppm)	1.7	91	91	56-116	0
Hexachlorobenzene	mg/kg (ppm)	1.7	92	92	57-115	0
Pentachlorophenol	mg/kg (ppm)	1.7	94	95	45-123	1
Carbazole	mg/kg (ppm)	1.7	86	85	57-116	1
Di-n-butyl phthalate	mg/kg (ppm)	1.7	84	85	56-118	1
Benzyl butyl phthalate	mg/kg (ppm)	1.7	102	102	56-122	0
Bis(2-ethylhexyl) phthalate	mg/kg (ppm)	1.7	97	99	56-125	2
Di-n-octyl phthalate	mg/kg (ppm)	1.7	96	98	58-120	2

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR PNA'S BY EPA METHOD 8270D SIM

Laboratory Code: 306292-12 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.17	<0.00022	77	69	44-129	11
Acenaphthylene	mg/kg (ppm)	0.17	<0.000091	75	75	52-121	0
Acenaphthene	mg/kg (ppm)	0.17	<0.00014	75	74	51-123	1
Fluorene	mg/kg (ppm)	0.17	<0.00015	82	82	37-137	0
Phenanthrene	mg/kg (ppm)	0.17	0.00035	80	83	45-124	4
Anthracene	mg/kg (ppm)	0.17	<0.000088	80	83	32-124	4
Fluoranthene	mg/kg (ppm)	0.17	0.00032	91	94	50-125	3
Pyrene	mg/kg (ppm)	0.17	0.00037	88	94	41-135	7
Benz(a)anthracene	mg/kg (ppm)	0.17	0.00024	80	84	23-144	5
Chrysene	mg/kg (ppm)	0.17	0.00023	83	88	45-122	6
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	0.00021	83	84	31-144	1
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	<0.00036	69	72	45-130	4
Benzo(a)pyrene	mg/kg (ppm)	0.17	<0.00022	73	75	39-128	3
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	<0.00062	80	81	28-146	1
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	<0.00034	74	76	46-129	3
Benzo(g,h,i)perylene	mg/kg (ppm)	0.17	<0.00034	73	75	37-133	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.17	82	82	58-121	0
Acenaphthylene	mg/kg (ppm)	0.17	85	86	54-121	1
Acenaphthene	mg/kg (ppm)	0.17	85	90	54-123	6
Fluorene	mg/kg (ppm)	0.17	90	91	56-127	1
Phenanthrene	mg/kg (ppm)	0.17	87	88	55-122	1
Anthracene	mg/kg (ppm)	0.17	86	88	50-120	2
Fluoranthene	mg/kg (ppm)	0.17	98	99	54-129	1
Pyrene	mg/kg (ppm)	0.17	96	97	53-127	1
Benz(a)anthracene	mg/kg (ppm)	0.17	88	88	51-115	0
Chrysene	mg/kg (ppm)	0.17	93	96	55-129	3
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	86	89	56-123	3
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	82	83	54-131	1
Benzo(a)pyrene	mg/kg (ppm)	0.17	74	78	51-118	5
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	87	90	49-148	3
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	85	87	50-141	2
Benzo(g,h,i)perylene	mg/kg (ppm)	0.17	82	84	52-131	2

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR PNA'S BY EPA METHOD 8270D SIM

Laboratory Code: 306220-06 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.17	66	54	44-129	20
Acenaphthylene	mg/kg (ppm)	0.17	72	61	52-121	17
Acenaphthene	mg/kg (ppm)	0.17	70	59	51-123	17
Fluorene	mg/kg (ppm)	0.17	74	64	37-137	14
Phenanthrene	mg/kg (ppm)	0.17	75	67	45-124	11
Anthracene	mg/kg (ppm)	0.17	73	65	32-124	12
Fluoranthene	mg/kg (ppm)	0.17	75	71	50-125	5
Pyrene	mg/kg (ppm)	0.17	80	72	41-135	11
Benz(a)anthracene	mg/kg (ppm)	0.17	73	68	23-144	7
Chrysene	mg/kg (ppm)	0.17	78	72	45-122	8
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	69	66	31-144	4
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	63	61	45-130	3
Benzo(a)pyrene	mg/kg (ppm)	0.17	66	64	39-128	3
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	75	71	28-146	5
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	68	62	46-129	9
Benzo(g,h,i)perylene	mg/kg (ppm)	0.17	64	60	37-133	6

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.17	84	74	58-121	13
Acenaphthylene	mg/kg (ppm)	0.17	85	81	54-121	5
Acenaphthene	mg/kg (ppm)	0.17	84	79	54-123	6
Fluorene	mg/kg (ppm)	0.17	86	83	56-127	4
Phenanthrene	mg/kg (ppm)	0.17	84	82	55-122	2
Anthracene	mg/kg (ppm)	0.17	76	74	50-120	3
Fluoranthene	mg/kg (ppm)	0.17	87	85	54-129	2
Pyrene	mg/kg (ppm)	0.17	87	85	53-127	2
Benz(a)anthracene	mg/kg (ppm)	0.17	84	81	51-115	4
Chrysene	mg/kg (ppm)	0.17	89	87	55-129	2
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	86	84	56-123	2
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	76	75	54-131	1
Benzo(a)pyrene	mg/kg (ppm)	0.17	72	70	51-118	3
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	94	91	49-148	3
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	86	84	50-141	2
Benzo(g,h,i)perylene	mg/kg (ppm)	0.17	82	79	52-131	4

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS AS AROCLOR 1016/1260 BY EPA METHOD 8082A

Laboratory Code: 306220-11 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Percent Recovery MS	Percent Recovery MSD	Control Limits	RPD (Limit 20)
Aroclor 1016	mg/kg (ppm)	0.4	125	151 vo	50-150	19
Aroclor 1260	mg/kg (ppm)	0.4	118	139	50-150	16

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	Acceptance Criteria
Aroclor 1016	mg/kg (ppm)	0.4	94	70-130
Aroclor 1260	mg/kg (ppm)	0.4	86	70-130

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS AS AROCLOR 1016/1260 BY EPA METHOD 8082A

Laboratory Code: 306220-08 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Control Limits	RPD (Limit 20)
Aroclor 1016	mg/kg (ppm)	0.8	<0.033	89	84	50-150	6
Aroclor 1260	mg/kg (ppm)	0.8	<0.033	107	95	50-150	12

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	Acceptance Criteria
Aroclor 1016	mg/kg (ppm)	0.8	91	70-130
Aroclor 1260	mg/kg (ppm)	0.8	95	70-130

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 306220-15 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Beryllium	mg/kg (ppm)	5	0.102	106	113	67-138	6
Chromium	mg/kg (ppm)	50	4.97	102	109	57-128	7
Nickel	mg/kg (ppm)	25	4.38	103	106	69-112	3
Copper	mg/kg (ppm)	50	9.44	98	102	57-120	4
Zinc	mg/kg (ppm)	50	15.2	96 b	103 b	55-129	7 b
Arsenic	mg/kg (ppm)	10	2.20	110 b	117 b	70-118	6 b
Selenium	mg/kg (ppm)	5	<0.912	111	116	64-117	4
Silver	mg/kg (ppm)	10	<0.0784	113	119	73-122	5
Cadmium	mg/kg (ppm)	10	<0.204	112	122 vo	83-116	9
Antimony	mg/kg (ppm)	20	0.621	95	105	54-116	10
Barium	mg/kg (ppm)	50	20.5	119 b	129 b	60-141	8 b
Thallium	mg/kg (ppm)	5	<0.0434	107	117	68-121	9
Lead	mg/kg (ppm)	50	4.31	109	118	59-148	8

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Beryllium	mg/kg (ppm)	5	114	69-146
Chromium	mg/kg (ppm)	50	105	78-121
Nickel	mg/kg (ppm)	25	103	82-122
Copper	mg/kg (ppm)	50	100	82-119
Zinc	mg/kg (ppm)	50	97	81-120
Arsenic	mg/kg (ppm)	10	99	83-113
Selenium	mg/kg (ppm)	5	105	84-115
Silver	mg/kg (ppm)	10	104	81-116
Cadmium	mg/kg (ppm)	10	103	54-114
Antimony	mg/kg (ppm)	20	95	69-114
Barium	mg/kg (ppm)	50	103	85-116
Thallium	mg/kg (ppm)	5	103	77-123
Lead	mg/kg (ppm)	50	103	80-120

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Laboratory Code: 306220-15 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Mercury	mg/kg (ppm)	0.125	0.074	105 b	94 b	62-140	11 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Mercury	mg/kg (ppm)	0.125	87	63-131

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Laboratory Code: 306244-14 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Mercury	mg/kg (ppm)	0.125	0.14	98 b	95 b	62-140	3 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Mercury	mg/kg (ppm)	0.125	87	63-131

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

306220

SAMPLE CHAIN OF CUSTODY KY 06-13-13 BI4/VB3/V1

Page # 1 of 3

Send Report To Mike Staton

Company SLR International

Address 2211B 20th Ave SE, G202

City, State, ZIP Bothell, WA 98021

Phone #425-402-8800 Fax #425-402-8488

SAMPLERS (signature)

PROJECT NAME/NO.: Crawling RIFS 101.00205.00019

PO#: 101.002 ar. 0019

REMARKS: NWTPH-DX after silica gel cleanup Hold for Cr6+ email COC to mstaton@slrconsulting.com

TURNAROUND TIME
- ☒ Standard (2 Weeks)
- ☐ RUSH
- Rush charges authorized by

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

√=added per Mike Staton gw 6/17/13
Ⓓ=added per Mike Staton gw 7/2/13
Ⓧ=added per gw 7/29/13

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260 C	SVOCs by 8270D	HFS	DRO + HO by NWTPH-DX	NWTPH-DX w/ SG cleanup	PCBs by 8082A	Hg by 1631E	Priority Pollutant Metals by 6020	Cr VI by 7196A HOLD	Notes
EMW-9S-1.0	01A-F	6/13/13	0755	Soil	6				X	X		X	X	X	X	X	X	
(OLD) EMW-9S-2.5	02		0805															HOLD
EMW-9S-5.0	03		0815															
(OLD) EMW-9S-7.5	04		0825															HOLD
EMW-9S-10.0	05		0835															
(OLD) EMW-9S-12.5	06		0845							Ⓧ			Ⓧ					~~HOLD~~ gw
EMW-7S-1.0	07		0945															
EMW-7S-5.0	08		1005															
(OLD) EMW-7S-7.5	09		1015															HOLD
EMW-7S-10.0	10		1025															

Friedman & Bruya, Inc.
3012 16th Avenue West
[illegible], WA 98119-2029
(206) 285-8282
(206) 283-5044

[illegible]COC.DOC

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Amanda Mengis	SLR	6/13/13	1617
Received by:	Khan Phan	FEBI	6/13/13	1617
Relinquished by:		Samples received at 3 °C		
Received by:				

306220

SAMPLE CHAIN OF CUSTODY

KJ 06-13-13 BI4/V83/V1

Page # 2 of 3

Send Report To Mike Staton
Company SLR International
Address 22118 20th Ave SE, G202
City, State, ZIP Bothell, WA 98021
Phone # ~~425~~ 402-8800 Fax # 425-402-8488

SAMPLERS (signature)

PROJECT NAME/NO.: Crowley RIFS 101.00205.00019

PO#: 101.00205.00019

REMARKS
NWTPH-Dx after silica gel cleanup
HOLD for Lab
email COC to mstaton@slrconsulting.com

TURNAROUND TIME
~~☒~~ Standard (2 Weeks)
☐ RUSH
Rush charges authorized by

SAMPLE DISPOSAL
☐ Dispose after 30 days
☐ Return samples
☐ Will call with instructions

	Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260C	SVOCs by 8270D	HFS	DRO+RO by NWTPH-Dx	PAHs by 8270D SIM	PCBs by 8082A	Arsenic by 6020	Priority pollutant Mtls+Ba by 6020	Cr(VI) by 7196A (HOLD)	Notes
(QD)	EMW-75-12.5	11A-F	6/13/13	1035	SOIL	6				X	X		X	X	X	X	X	X	~~HOLD~~ /vp
(QD)	TB-061313	12A-B		1100	WATER	2				X									~~HOLD~~ Analyze per Mike Staton CO 6/17
	EMW-55-1.0	13A-F		1150	SOIL	6				X	X		X	X	X	X	X	X	
(QD)	EMW-55-2.5	14		1200															HOLD
	EMW-55-7.50	15		1220															
	EMW-55-10.0	16		1230															
(QD)	EMW-55-12.5	17		1240										✓	⊗				~~HOLD~~ /vp
	EB-51-1.0	18		1410															
(QD)	EB-51-2.5	19		1420															HOLD
	EB-51-5.0	20		1430															

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FORMS\COC\COC.DOC

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Amanda Mengniot	SLR	6/13/13	1617
Received by:		Nhan Phan	FBI	6/13/13	1617
Relinquished by:					
Received by:			Samples received at 3 °C		

306220

SAMPLE CHAIN OF CUSTODY KJ 06-13-13 BE4/VS3/V1

Page # 3 of 3

Send Report To Mike Staton
Company SLR International
Address 2211B 20th Ave SE, G202
City, State, ZIP Bothell, WA 98021
Phone #425-402-8800 Fax #425-402-8488

SAMPLERS (signature)

PROJECT NAME/NO.: Crowley RIFS 101.00205.00019

PO#: 101.00205.0001

REMARKS: NWTPH-Dx after silica gel cleanup
HOLD for Color
email CoC to mstaton@slrconsulting.com

TURNAROUND TIME
☒ Standard (2 Weeks)
☐ RUSH
Rush charges authorized by

SAMPLE DISPOSAL
☐ Dispose after 30 days
☐ Return samples
☐ Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260C	SVOCs by 8270D	GRO, DRO, NWTPH-Dx	DRO to C28 by NWTPH-Dx	NWTPH-Dx	PAH, by 8270D SIM	PCBs by 8082A	Pb by 6020	Priority Pollutant Mets + Ba by 200.7	Color by HOLD	Notes
EB-51-7.5	22A-1	6/13/13	1440	SOIL	10				X	✓	X	X	X	✓	✓	✓			
EB-51-10.0	22A-F	6/13/13	1450	SOIL	6				X	X	(✓)	X	X	X	X	X	X	X	

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Amanda Mengnit	SLR	6/13/13	1617
Received by:	Nhan Phan	FEB I	6/13/13	1617
Relinquished by:				
Received by:		Samples received at 3 °C		

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Kurt Johnson, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
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fbi@isomedia.com
www.friedmanandbruya.com

July 30, 2013

Mike Staton
SLR International Corp.
22118 20th Ave. SE., G-202
Bothell, WA 98021

Dear Mr. Staton:

Included are the results from the testing of material submitted on June 17, 2013 from the Crowley RIFS 101.00205.00019, F&BI 306270 project. There are 122 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michele Costales Poquiz

Michele Costales Poquiz
Chemist

Enclosures
SLR0730R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on June 17, 2013 by Friedman & Bruya, Inc. from the SLR International Corp. Crowley RIFS 101.00205.00019, F&BI 306270 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SLR International Corp.
306270-01	EMW-2S-2.5
306270-02	EMW-2S-5.0
306270-03	EMW-2S-7.5
306270-04	EMW-2S-10.0
306270-05	EMW-2S-12.5
306270-06	EB-17-1.0
306270-07	EB-17-2.5
306270-08	EB-17-5.75
306270-09	EB-17-7.5
306270-10	EB-17-10.0
306270-11	EB-17-12.5
306270-12	EB-14-1.0
306270-13	EB-14-2.5
306270-14	EB-14-5.0
306270-15	EB-14-7.50
306270-16	EB-14-10.0
306270-17	EB-14-12.5
306270-18	EB-24-1.0
306270-19	EB-24-2.5
306270-20	EB-24-5.0
306270-21	EB-38-1.0
306270-22	EB-38-2.5
306270-23	EB-38-5.0
306270-24	EB-38-7.5
306270-25	EB-38-10.0
306270-26	EB-38-12.5
306270-27	TB-061713
306270-28	EB-24-7.5
306270-29	EB-24-10.0
306270-30	EB-24-12.5

Total Petroleum Hydrocarbons as Gasoline by Method NWTPH-Gx

All quality control requirements were acceptable.

Total Petroleum Hydrocarbons as Diesel and Motor Oil by Method NWTPH-Dx with Silica Gel

All quality control requirements were acceptable.

CASE NARRATIVE (continued)

Volatile Compounds by EPA Method 8260C
The presence of methylene chloride in the samples EB-17-5.75 and EB-24-10.0, and the presence of acetone in the sample TB-061713, is likely due to laboratory contamination. The results have been flagged accordingly.

The trip blank sample was received with incorrect preservation for the 8260 analysis of vinyl chloride. The result should be considered an estimate.

The percent recovery for the matrix spike (MS), laboratory control sample (LCS), and laboratory control sample duplicate (LCSD) failed high for several compounds in the 8260C water analysis. The compounds were not identified in the sample TB-061713, therefore the results are valid.

Semivolatile Organic Compounds by EPA Method 8270D
The samples EB-17-1.0, EB-17-5.75, EB-14-1.0, EB-14-5.0, EB-24-5.0, EB-38-1.0, and EB-38-5.0 were diluted due to matrix interferences. The reporting limits have been raised accordingly.

The presence of bis(2-ethylhexyl) phthalate in the samples EMW-2S-10.0, EB-17-10.0, and EB-14-10.0 is likely due to laboratory contamination. The results have been flagged accordingly.

The calibration result for 2,4-dinitrophenol and 4,6-dinitro-2-methylphenol fell outside of acceptance criteria for the samples EB-17-5.75, EB-17-10.0, EB-14-1.0, EB-24-1.0, EB-24-5.0, EB-38-1.0, and EB-38-5.0. The values reported are estimates.

The internal standard associated with several analytes exceeded acceptance criteria for the sample EB-24-5.0. In addition, the internal standard associated with di-n-octyl phthalate exceeded acceptance criteria for the sample EB-38-5.0. The results have been flagged accordingly.

The result for 2,3-dimethylphenol in the laboratory control sample is out of control limits. In addition, the relative percent difference (RPD) for the LCS and LCSD is out of control limits. The results have been flagged accordingly.

Semivolatile Organic Compounds by EPA Method 8270D SIM
The samples EB-17-5.75, EB-14-1.0, EB-14-5.0, EB-24-5.0, EB-38-1.0, EB-38-5.0, and EB-38-10.0 were diluted due to matrix interferences. The reporting limits have been raised accordingly.

Surrogates were inadvertently not added to the samples EB-38-12.5 and EB-24-12.5. Re-extraction of the samples confirmed the PNA results of the original analysis. The results for the original analysis have been provided.

CASE NARRATIVE (continued)

Polychlorinated Biphenyls as Aroclor 1016/1260 by EPA Method 8082A
The samples EB-17-10.0, EB-14-1.0, EB-14-5.0, EB-14-10.0, EB-24-5.0 were diluted due to matrix interferences. The reporting limits have been raised accordingly.

The surrogate recovery for the sample EB-38-5.0 fell outside of control limits. The results have been flagged accordingly.

The percent recovery for the MSD exceeded acceptance criteria. The result has been flagged accordingly.

Total Metals by EPA Method 200.8
The sample EB-38-5.0 was diluted due to matrix interferences. The reporting limits have been raised accordingly.

Total Mercury by EPA Method 1631E
All quality control requirements were acceptable.

Hexavalent Chromium by Method 7196A
The report generated by Analytical Resources, Inc. is enclosed.

Date of Report: 07/30/13
Date Received: 06/17/13
Project: Crowley RIFS 101.00205.00019, F&BI 306270
Date Extracted: 06/20/13
Date Analyzed: 06/20/13

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Gasoline Range	Surrogate (% Recovery) (Limit 58-139)
EB-24-5.0 306270-20	11	84
Method Blank 03-1164 MB	<0.20	85

Date of Report: 07/30/13
Date Received: 06/17/13
Project: Crowley RIFS 101.00205.00019, F&BI 306270
Date Extracted: 06/21/13
Date Analyzed: 06/24/13 and 06/25/13

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx
Sample Extracts Passed Through a Silica Gel Column Prior to Analysis
Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 53-144)
EMW-2S-2.5 306270-01	<12	<21	97
EMW-2S-5.0 306270-02	<12	<21	119
EMW-2S-10.0 306270-04	<12	<21	102
EB-17-1.0 306270-06	100 x	200	114
EB-17-5.75 306270-08	<12	69	101
EB-17-10.0 306270-10	<12	<21	106
EB-14-1.0 306270-12	47 x	560	108
EB-14-5.0 306270-14	30 x	170	103
EB-14-10.0 306270-16	<12	<21	104
EB-24-1.0 306270-18	<12	<21	108
EB-24-5.0 306270-20	2,700	710	129

Date of Report: 07/30/13
Date Received: 06/17/13
Project: Crowley RIFS 101.00205.00019, F&BI 306270
Date Extracted: 06/21/13
Date Analyzed: 06/24/13 and 06/25/13

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx
Sample Extracts Passed Through a Silica Gel Column Prior to Analysis
Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 53-144)
EB-38-1.0 306270-21	<12	<21	125
EB-38-5.0 306270-23	350	910	ip
EB-38-10.0 306270-25	<12	<21	108
EB-24-10.0 306270-29	<12	<21	104
Method Blank 03-1218 MB	<12	<21	116

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-2S-2.5	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	306270-01
Date Analyzed:	06/24/13	Data File:	062412.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	96	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-2S-5.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	306270-02
Date Analyzed:	06/24/13	Data File:	062413.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	0.073	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-2S-10.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	306270-04
Date Analyzed:	06/24/13	Data File:	062414.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EB-17-1.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	306270-06
Date Analyzed:	06/24/13	Data File:	062415.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	102	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EB-17-5.75	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	306270-08
Date Analyzed:	06/24/13	Data File:	062417.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	0.065 lc	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EB-17-10.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	306270-10
Date Analyzed:	06/24/13	Data File:	062418.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EB-14-1.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	306270-12
Date Analyzed:	06/24/13	Data File:	062419.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EB-14-5.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	306270-14
Date Analyzed:	06/24/13	Data File:	062420.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	0.043
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EB-14-10.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	306270-16
Date Analyzed:	06/24/13	Data File:	062421.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EB-24-1.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	306270-18
Date Analyzed:	06/24/13	Data File:	062422.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	96	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EB-24-5.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	306270-20
Date Analyzed:	06/24/13	Data File:	062423.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EB-38-1.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	306270-21
Date Analyzed:	06/24/13	Data File:	062424.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EB-38-5.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	306270-23
Date Analyzed:	06/24/13	Data File:	062425.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	0.014
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	0.043
Methylene chloride	<0.054	o-Xylene	0.048
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	0.016
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	0.018
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	0.025
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	0.21	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	0.056
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EB-38-10.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	306270-25
Date Analyzed:	06/24/13	Data File:	062426.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	102	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromœthane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	0.070 lc	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	0.054
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EB-24-10.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	306270-29
Date Analyzed:	06/24/13	Data File:	062427.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	102	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	0.067 lc	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/24/13	Lab ID:	03-1220 mb
Date Analyzed:	06/24/13	Data File:	062408.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	TB-061713	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/18/13	Lab ID:	306270-27
Date Analyzed:	06/18/13	Data File:	061817.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	105	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	95	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13 pr	Dibromochloromethane	<0.24
Bromomethane	<0.2	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	2.6 lc	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/18/13	Lab ID:	03-1114 mb
Date Analyzed:	06/18/13	Data File:	061809.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	96	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-2S-2.5	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-01
Date Analyzed:	07/05/13	Data File:	070508.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	80	56	115
Phenol-d6	84	54	113
Nitrobenzene-d5	84	31	164
2-Fluorobiphenyl	84	47	133
2,4,6-Tribromophenol	90	35	141
Terphenyl-d14	108	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	<0.005 j	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014 j
2-Methylphenol	<0.0064	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019 jl	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062 j
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	<0.013
2-Methylnaphthalene	<0.001	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-2S-5.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-02
Date Analyzed:	07/05/13	Data File:	070509.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	80	56	115
Phenol-d6	82	54	113
Nitrobenzene-d5	85	31	164
2-Fluorobiphenyl	85	47	133
2,4,6-Tribromophenol	87	35	141
Terphenyl-d14	103	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	<0.005 j	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014 j
2-Methylphenol	<0.0064	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019 jl	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062 j
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	<0.013
2-Methylnaphthalene	<0.001	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-2S-10.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-04
Date Analyzed:	07/05/13	Data File:	070507.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	65	56	115
Phenol-d6	68	54	113
Nitrobenzene-d5	67	31	164
2-Fluorobiphenyl	64	47	133
2,4,6-Tribromophenol	74	35	141
Terphenyl-d14	83	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	<0.005 j	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014 j
2-Methylphenol	<0.0064	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019 jl	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062 j
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	0.024 lc
2-Methylnaphthalene	<0.001	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EB-17-1.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-06 1/20
Date Analyzed:	07/09/13	Data File:	070831.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	72 ds	56	115
Phenol-d6	69 ds	54	113
Nitrobenzene-d5	72 ds	31	164
2-Fluorobiphenyl	80 ds	47	133
2,4,6-Tribromophenol	48 ds	35	141
Terphenyl-d14	94 ds	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.11	2,4,6-Trichlorophenol	<0.16
Bis(2-chloroethyl) ether	<0.032	2,4,5-Trichlorophenol	<0.19
2-Chlorophenol	<0.12	2-Chloronaphthalene	<0.028
1,3-Dichlorobenzene	<0.052	2-Nitroaniline	<0.052
1,4-Dichlorobenzene	<0.048	Dimethyl phthalate	<0.024
1,2-Dichlorobenzene	<0.08	2,6-Dinitrotoluene	<0.036
Benzyl alcohol	<0.1	3-Nitroaniline	<0.35
Bis(2-chloroisopropyl) ether	<0.032	2,4-Dinitrophenol	<0.28
2-Methylphenol	<0.13	Dibenzofuran	<0.02
Hexachloroethane	<0.068	2,4-Dinitrotoluene	<0.032
N-Nitroso-di-n-propylamine	<0.06	4-Nitrophenol	<0.36
3-Methylphenol + 4-Methylphenol	<0.29	Diethyl phthalate	<0.08
Nitrobenzene	<0.052	4-Chlorophenyl phenyl ether	<0.032
Isophorone	<0.024	N-Nitrosodiphenylamine	<0.02
2-Nitrophenol	<0.16	4-Nitroaniline	<0.36
2,4-Dimethylphenol	<0.37 jl	4,6-Dinitro-2-methylphenol	<0.21
Benzoic acid	<1.1	4-Bromophenyl phenyl ether	<0.032
Bis(2-chloroethoxy)methane	<0.028	Hexachlorobenzene	<0.02
2,4-Dichlorophenol	<0.12	Pentachlorophenol	<0.12
1,2,4-Trichlorobenzene	<0.068	Carbazole	<0.04
Hexachlorobutadiene	<0.04	Di-n-butyl phthalate	<0.4
4-Chloroaniline	<3.6	Benzyl butyl phthalate	<0.12
4-Chloro-3-methylphenol	<0.088	Bis(2-ethylhexyl) phthalate	<0.27
2-Methylnaphthalene	<0.02	Di-n-octyl phthalate	<0.068
Hexachlorocyclopentadiene	<0.044		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EB-17-5.75	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-08 1/50
Date Analyzed:	07/09/13	Data File:	070926.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	77 ds	56	115
Phenol-d6	80 ds	54	113
Nitrobenzene-d5	80 ds	31	164
2-Fluorobiphenyl	90 ds	47	133
2,4,6-Tribromophenol	67 ds	35	141
Terphenyl-d14	100 ds	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.27	2,4,6-Trichlorophenol	<0.4
Bis(2-chloroethyl) ether	<0.08	2,4,5-Trichlorophenol	<0.48
2-Chlorophenol	<0.31	2-Chloronaphthalene	<0.07
1,3-Dichlorobenzene	<0.13	2-Nitroaniline	<0.13
1,4-Dichlorobenzene	<0.12	Dimethyl phthalate	<0.06
1,2-Dichlorobenzene	<0.2	2,6-Dinitrotoluene	<0.09
Benzyl alcohol	<0.25	3-Nitroaniline	<0.87
Bis(2-chloroisopropyl) ether	<0.08	2,4-Dinitrophenol	<0.69 ca
2-Methylphenol	<0.32	Dibenzofuran	<0.05
Hexachloroethane	<0.17	2,4-Dinitrotoluene	<0.08
N-Nitroso-di-n-propylamine	<0.15	4-Nitrophenol	<0.89
3-Methylphenol + 4-Methylphenol	<0.72	Diethyl phthalate	<0.2
Nitrobenzene	<0.13	4-Chlorophenyl phenyl ether	<0.08
Isophorone	<0.06	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.41	4-Nitroaniline	<0.91
2,4-Dimethylphenol	<0.93 jl	4,6-Dinitro-2-methylphenol	<0.53 ca
Benzoic acid	<2.7	4-Bromophenyl phenyl ether	<0.08
Bis(2-chloroethoxy)methane	<0.07	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.29	Pentachlorophenol	<0.31
1,2,4-Trichlorobenzene	<0.17	Carbazole	<0.1
Hexachlorobutadiene	<0.1	Di-n-butyl phthalate	<1
4-Chloroaniline	<8.9	Benzyl butyl phthalate	<0.29
4-Chloro-3-methylphenol	<0.22	Bis(2-ethylhexyl) phthalate	<0.67
2-Methylnaphthalene	<0.05	Di-n-octyl phthalate	<0.17
Hexachlorocyclopentadiene	<0.11		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EB-17-10.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-10
Date Analyzed:	07/09/13	Data File:	070922.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	79	56	115
Phenol-d6	79	54	113
Nitrobenzene-d5	82	31	164
2-Fluorobiphenyl	84	47	133
2,4,6-Tribromophenol	100	35	141
Terphenyl-d14	94	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	<0.005	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014 ca
2-Methylphenol	<0.0064	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019 jl	4,6-Dinitro-2-methylphenol	<0.011 ca
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	0.0065
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	0.014 lc
2-Methylnaphthalene	<0.001	Di-n-octyl phthalate	<0.0034 J
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EB-17-10.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-10 1/10
Date Analyzed:	07/10/13	Data File:	071026.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	77 ds	56	115
Phenol-d6	67 ds	54	113
Nitrobenzene-d5	82 ds	31	164
2-Fluorobiphenyl	84 ds	47	133
2,4,6-Tribromophenol	83 ds	35	141
Terphenyl-d14	88 ds	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.054	2,4,6-Trichlorophenol	<0.08
Bis(2-chloroethyl) ether	<0.016	2,4,5-Trichlorophenol	<0.096
2-Chlorophenol	<0.062	2-Chloronaphthalene	<0.014
1,3-Dichlorobenzene	<0.026	2-Nitroaniline	<0.026
1,4-Dichlorobenzene	<0.024	Dimethyl phthalate	<0.012
1,2-Dichlorobenzene	<0.04	2,6-Dinitrotoluene	<0.018
Benzyl alcohol	<0.05	3-Nitroaniline	<0.17
Bis(2-chloroisopropyl) ether	<0.016	2,4-Dinitrophenol	<0.14
2-Methylphenol	<0.064	Dibenzofuran	<0.01
Hexachloroethane	<0.034	2,4-Dinitrotoluene	<0.016
N-Nitroso-di-n-propylamine	<0.03	4-Nitrophenol	<0.18
3-Methylphenol + 4-Methylphenol	<0.14	Diethyl phthalate	<0.04
Nitrobenzene	<0.026	4-Chlorophenyl phenyl ether	<0.016
Isophorone	<0.012	N-Nitrosodiphenylamine	<0.01
2-Nitrophenol	<0.082	4-Nitroaniline	<0.18
2,4-Dimethylphenol	<0.19 jl	4,6-Dinitro-2-methylphenol	<0.11
Benzoic acid	<0.55	4-Bromophenyl phenyl ether	<0.016
Bis(2-chloroethoxy)methane	<0.014	Hexachlorobenzene	<0.01
2,4-Dichlorophenol	<0.058	Pentachlorophenol	<0.062
1,2,4-Trichlorobenzene	<0.034	Carbazole	<0.02
Hexachlorobutadiene	<0.02	Di-n-butyl phthalate	<0.2
4-Chloroaniline	<1.8	Benzyl butyl phthalate	<0.058
4-Chloro-3-methylphenol	<0.044	Bis(2-ethylhexyl) phthalate	<0.13
2-Methylnaphthalene	<0.01	Di-n-octyl phthalate	<0.034
Hexachlorocyclopentadiene	<0.022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EB-17-12.5	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306270-11
Date Analyzed:	07/23/13	Data File:	072306.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	81	56	115
Phenol-d6	83	54	113
Nitrobenzene-d5	86	31	164
2-Fluorobiphenyl	89	47	133
2,4,6-Tribromophenol	98	35	141
Terphenyl-d14	100	64	125

Compounds:	Concentration mg/kg (ppm)
Benzyl butyl phthalate	<0.0058

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EB-14-1.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-12 1/500
Date Analyzed:	07/09/13	Data File:	070927.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	65 ds	56	115
Phenol-d6	65 ds	54	113
Nitrobenzene-d5	150 ds	31	164
2-Fluorobiphenyl	100 ds	47	133
2,4,6-Tribromophenol	0 ds	35	141
Terphenyl-d14	100 ds	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<2.7	2,4,6-Trichlorophenol	<4
Bis(2-chloroethyl) ether	<0.8	2,4,5-Trichlorophenol	<4.8
2-Chlorophenol	<3.1	2-Chloronaphthalene	<0.7
1,3-Dichlorobenzene	<1.3	2-Nitroaniline	<1.3
1,4-Dichlorobenzene	<1.2	Dimethyl phthalate	<0.6
1,2-Dichlorobenzene	<2	2,6-Dinitrotoluene	<0.9
Benzyl alcohol	<2.5	3-Nitroaniline	<8.7
Bis(2-chloroisopropyl) ether	<0.8	2,4-Dinitrophenol	<6.9 ca
2-Methylphenol	<3.2	Dibenzofuran	<0.5
Hexachloroethane	<1.7	2,4-Dinitrotoluene	<0.8
N-Nitroso-di-n-propylamine	<1.5	4-Nitrophenol	<8.9
3-Methylphenol + 4-Methylphenol	<7.2	Diethyl phthalate	<2
Nitrobenzene	<1.3	4-Chlorophenyl phenyl ether	<0.8
Isophorone	<0.6	N-Nitrosodiphenylamine	<0.5
2-Nitrophenol	<4.1	4-Nitroaniline	<9.1
2,4-Dimethylphenol	<9.3	4,6-Dinitro-2-methylphenol	<5.3 ca
Benzoic acid	<27	4-Bromophenyl phenyl ether	<0.8
Bis(2-chloroethoxy)methane	<0.7	Hexachlorobenzene	<0.5
2,4-Dichlorophenol	<2.9 jl	Pentachlorophenol	<3.1
1,2,4-Trichlorobenzene	<1.7	Carbazole	<1
Hexachlorobutadiene	<1	Di-n-butyl phthalate	<10
4-Chloroaniline	<89	Benzyl butyl phthalate	<2.9
4-Chloro-3-methylphenol	<2.2	Bis(2-ethylhexyl) phthalate	<6.7
2-Methylnaphthalene	<0.5	Di-n-octyl phthalate	<1.7
Hexachlorocyclopentadiene	<1.1		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EB-14-5.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-14 1/100
Date Analyzed:	07/10/13	Data File:	071027.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	53 ds	56	115
Phenol-d6	20 ds	54	113
Nitrobenzene-d5	90 ds	31	164
2-Fluorobiphenyl	90 ds	47	133
2,4,6-Tribromophenol	67 ds	35	141
Terphenyl-d14	190 ds	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.54	2,4,6-Trichlorophenol	<0.8
Bis(2-chloroethyl) ether	<0.16	2,4,5-Trichlorophenol	<0.96
2-Chlorophenol	<0.62	2-Chloronaphthalene	<0.14
1,3-Dichlorobenzene	<0.26	2-Nitroaniline	<0.26
1,4-Dichlorobenzene	<0.24	Dimethyl phthalate	<0.12
1,2-Dichlorobenzene	<0.4	2,6-Dinitrotoluene	<0.18
Benzyl alcohol	<0.5	3-Nitroaniline	<1.7
Bis(2-chloroisopropyl) ether	<0.16	2,4-Dinitrophenol	<1.4
2-Methylphenol	<0.64	Dibenzofuran	<0.1
Hexachloroethane	<0.34	2,4-Dinitrotoluene	<0.16
N-Nitroso-di-n-propylamine	<0.3	4-Nitrophenol	<1.8
3-Methylphenol + 4-Methylphenol	<1.4	Diethyl phthalate	<0.4
Nitrobenzene	<0.26	4-Chlorophenyl phenyl ether	<0.16
Isophorone	<0.12	N-Nitrosodiphenylamine	<0.1
2-Nitrophenol	<0.82	4-Nitroaniline	<1.8
2,4-Dimethylphenol	<1.9 jl	4,6-Dinitro-2-methylphenol	<1.1
Benzoic acid	<5.5	4-Bromophenyl phenyl ether	<0.16
Bis(2-chloroethoxy)methane	<0.14	Hexachlorobenzene	<0.1
2,4-Dichlorophenol	<0.58	Pentachlorophenol	<0.62
1,2,4-Trichlorobenzene	<0.34	Carbazole	<0.2
Hexachlorobutadiene	<0.2	Di-n-butyl phthalate	<2
4-Chloroaniline	<18	Benzyl butyl phthalate	<0.58
4-Chloro-3-methylphenol	<0.44	Bis(2-ethylhexyl) phthalate	<1.3
2-Methylnaphthalene	0.14	Di-n-octyl phthalate	<0.34
Hexachlorocyclopentadiene	<0.22		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EB-14-10.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-16
Date Analyzed:	07/05/13	Data File:	070511.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	63	56	115
Phenol-d6	68	54	113
Nitrobenzene-d5	68	31	164
2-Fluorobiphenyl	69	47	133
2,4,6-Tribromophenol	81	35	141
Terphenyl-d14	87	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	<0.005 j	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014 j
2-Methylphenol	<0.0064	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019 jl	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	0.0064 j
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	0.015 lc
2-Methylnaphthalene	<0.001	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EB-24-1.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-18
Date Analyzed:	07/09/13	Data File:	070923.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	65	56	115
Phenol-d6	70	54	113
Nitrobenzene-d5	73	31	164
2-Fluorobiphenyl	73	47	133
2,4,6-Tribromophenol	72	35	141
Terphenyl-d14	81	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	<0.005	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014 ca
2-Methylphenol	<0.0064	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019 jl	4,6-Dinitro-2-methylphenol	<0.011 ca
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	<0.013
2-Methylnaphthalene	<0.001	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EB-24-5.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-20 1/20
Date Analyzed:	07/09/13	Data File:	070925.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	73 ds	56	115
Phenol-d6	79 ds	54	113
Nitrobenzene-d5	84 ds	31	164
2-Fluorobiphenyl	106 ds	47	133
2,4,6-Tribromophenol	0 ds	35	141
Terphenyl-d14	90 ds	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.11	2,4,6-Trichlorophenol	<0.16
Bis(2-chloroethyl) ether	<0.032	2,4,5-Trichlorophenol	<0.19
2-Chlorophenol	<0.12	2-Chloronaphthalene	<0.028
1,3-Dichlorobenzene	<0.052	2-Nitroaniline	<0.052
1,4-Dichlorobenzene	<0.048	Dimethyl phthalate	<0.024
1,2-Dichlorobenzene	<0.08	2,6-Dinitrotoluene	<0.036
Benzyl alcohol	<0.1	3-Nitroaniline	<0.35
Bis(2-chloroisopropyl) ether	<0.032	2,4-Dinitrophenol	<0.28 ca
2-Methylphenol	<0.13	Dibenzofuran	<0.02
Hexachloroethane	<0.068	2,4-Dinitrotoluene	<0.032
N-Nitroso-di-n-propylamine	<0.06	4-Nitrophenol	<0.36
3-Methylphenol + 4-Methylphenol	<0.29	Diethyl phthalate	<0.08
Nitrobenzene	<0.052	4-Chlorophenyl phenyl ether	<0.032
Isophorone	<0.024	N-Nitrosodiphenylamine	<0.02 J
2-Nitrophenol	<0.16	4-Nitroaniline	<0.36 J
2,4-Dimethylphenol	<0.37 jl	4,6-Dinitro-2-methylphenol	<0.21 J ca
Benzoic acid	<1.1	4-Bromophenyl phenyl ether	<0.032 J
Bis(2-chloroethoxy)methane	<0.028	Hexachlorobenzene	<0.02 J
2,4-Dichlorophenol	<0.12	Pentachlorophenol	<0.12 J
1,2,4-Trichlorobenzene	<0.068	Carbazole	<0.04 J
Hexachlorobutadiene	<0.04	Di-n-butyl phthalate	<0.4 J
4-Chloroaniline	<3.6	Benzyl butyl phthalate	<0.12
4-Chloro-3-methylphenol	<0.088	Bis(2-ethylhexyl) phthalate	<0.27
2-Methylnaphthalene	<0.02	Di-n-octyl phthalate	<0.068
Hexachlorocyclopentadiene	<0.044		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EB-24-5.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-20 1/100
Date Analyzed:	07/11/13	Data File:	071028.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	40 ds	56	115
Phenol-d6	7 ds	54	113
Nitrobenzene-d5	70 ds	31	164
2-Fluorobiphenyl	90 ds	47	133
2,4,6-Tribromophenol	47 ds	35	141
Terphenyl-d14	120 ds	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.54	2,4,6-Trichlorophenol	<0.8
Bis(2-chloroethyl) ether	<0.16	2,4,5-Trichlorophenol	<0.96
2-Chlorophenol	<0.62	2-Chloronaphthalene	<0.14
1,3-Dichlorobenzene	<0.26	2-Nitroaniline	<0.26
1,4-Dichlorobenzene	<0.24	Dimethyl phthalate	<0.12
1,2-Dichlorobenzene	<0.4	2,6-Dinitrotoluene	<0.18
Benzyl alcohol	<0.5	3-Nitroaniline	<1.7
Bis(2-chloroisopropyl) ether	<0.16	2,4-Dinitrophenol	<1.4
2-Methylphenol	<0.64	Dibenzofuran	<0.1
Hexachloroethane	<0.34	2,4-Dinitrotoluene	<0.16
N-Nitroso-di-n-propylamine	<0.3	4-Nitrophenol	<1.8
3-Methylphenol + 4-Methylphenol	<1.4	Diethyl phthalate	<0.4
Nitrobenzene	<0.26	4-Chlorophenyl phenyl ether	<0.16
Isophorone	<0.12	N-Nitrosodiphenylamine	<0.1
2-Nitrophenol	<0.82	4-Nitroaniline	<1.8
2,4-Dimethylphenol	<1.9 jl	4,6-Dinitro-2-methylphenol	<1.1
Benzoic acid	<5.5	4-Bromophenyl phenyl ether	<0.16
Bis(2-chloroethoxy)methane	<0.14	Hexachlorobenzene	<0.1
2,4-Dichlorophenol	<0.58	Pentachlorophenol	<0.62
1,2,4-Trichlorobenzene	<0.34	Carbazole	<0.2
Hexachlorobutadiene	<0.2	Di-n-butyl phthalate	<2
4-Chloroaniline	<18	Benzyl butyl phthalate	<0.58
4-Chloro-3-methylphenol	<0.44	Bis(2-ethylhexyl) phthalate	<1.3
2-Methylnaphthalene	<0.1	Di-n-octyl phthalate	<0.34
Hexachlorocyclopentadiene	<0.22		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EB-38-1.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-21 1/10
Date Analyzed:	07/09/13	Data File:	070921.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	80 ds	56	115
Phenol-d6	85 ds	54	113
Nitrobenzene-d5	84 ds	31	164
2-Fluorobiphenyl	94 ds	47	133
2,4,6-Tribromophenol	91 ds	35	141
Terphenyl-d14	106 ds	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.054	2,4,6-Trichlorophenol	<0.08
Bis(2-chloroethyl) ether	<0.016	2,4,5-Trichlorophenol	<0.096
2-Chlorophenol	<0.062	2-Chloronaphthalene	<0.014
1,3-Dichlorobenzene	<0.026	2-Nitroaniline	<0.026
1,4-Dichlorobenzene	<0.024	Dimethyl phthalate	<0.012
1,2-Dichlorobenzene	<0.04	2,6-Dinitrotoluene	<0.018
Benzyl alcohol	<0.05	3-Nitroaniline	<0.17
Bis(2-chloroisopropyl) ether	<0.016	2,4-Dinitrophenol	<0.14 ca
2-Methylphenol	<0.064	Dibenzofuran	0.073
Hexachloroethane	<0.034	2,4-Dinitrotoluene	<0.016
N-Nitroso-di-n-propylamine	<0.03	4-Nitrophenol	<0.18
3-Methylphenol + 4-Methylphenol	<0.14	Diethyl phthalate	<0.04
Nitrobenzene	<0.026	4-Chlorophenyl phenyl ether	<0.016
Isophorone	<0.012	N-Nitrosodiphenylamine	<0.01
2-Nitrophenol	<0.082	4-Nitroaniline	<0.18
2,4-Dimethylphenol	<0.19	4,6-Dinitro-2-methylphenol	<0.11 ca
Benzoic acid	<0.55	4-Bromophenyl phenyl ether	<0.016
Bis(2-chloroethoxy)methane	<0.014	Hexachlorobenzene	<0.01
2,4-Dichlorophenol	<0.058 jl	Pentachlorophenol	<0.062
1,2,4-Trichlorobenzene	<0.034	Carbazole	0.73
Hexachlorobutadiene	<0.02	Di-n-butyl phthalate	<0.2
4-Chloroaniline	<1.8	Benzyl butyl phthalate	<0.058
4-Chloro-3-methylphenol	<0.044	Bis(2-ethylhexyl) phthalate	<0.13
2-Methylnaphthalene	0.093	Di-n-octyl phthalate	<0.034
Hexachlorocyclopentadiene	<0.022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EB-38-5.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-23 1/500
Date Analyzed:	07/10/13	Data File:	070930.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	65 ds	56	115
Phenol-d6	100 ds	54	113
Nitrobenzene-d5	200 ds	31	164
2-Fluorobiphenyl	100 ds	47	133
2,4,6-Tribromophenol	0 ds	35	141
Terphenyl-d14	150 ds	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<2.7	2,4,6-Trichlorophenol	<4
Bis(2-chloroethyl) ether	<0.8	2,4,5-Trichlorophenol	<4.8
2-Chlorophenol	<3.1	2-Chloronaphthalene	<0.7
1,3-Dichlorobenzene	<1.3	2-Nitroaniline	<1.3
1,4-Dichlorobenzene	<1.2	Dimethyl phthalate	<0.6
1,2-Dichlorobenzene	<2	2,6-Dinitrotoluene	<0.9
Benzyl alcohol	<2.5	3-Nitroaniline	<8.7
Bis(2-chloroisopropyl) ether	<0.8	2,4-Dinitrophenol	<6.9 ca
2-Methylphenol	<3.2	Dibenzofuran	<0.5
Hexachloroethane	<1.7	2,4-Dinitrotoluene	<0.8
N-Nitroso-di-n-propylamine	<1.5	4-Nitrophenol	<8.9
3-Methylphenol + 4-Methylphenol	<7.2	Diethyl phthalate	<2
Nitrobenzene	<1.3	4-Chlorophenyl phenyl ether	<0.8
Isophorone	<0.6	N-Nitrosodiphenylamine	<0.5
2-Nitrophenol	<4.1	4-Nitroaniline	<9.1
2,4-Dimethylphenol	<9.3 jl	4,6-Dinitro-2-methylphenol	<5.3 ca
Benzoic acid	<27	4-Bromophenyl phenyl ether	<0.8
Bis(2-chloroethoxy)methane	<0.7	Hexachlorobenzene	<0.5
2,4-Dichlorophenol	<2.9	Pentachlorophenol	<3.1
1,2,4-Trichlorobenzene	<1.7	Carbazole	<1
Hexachlorobutadiene	<1	Di-n-butyl phthalate	<10
4-Chloroaniline	<89	Benzyl butyl phthalate	<2.9
4-Chloro-3-methylphenol	<2.2	Bis(2-ethylhexyl) phthalate	<6.7
2-Methylnaphthalene	<0.5	Di-n-octyl phthalate	<1.7 J
Hexachlorocyclopentadiene	<1.1		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EB-38-10.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-25
Date Analyzed:	07/05/13	Data File:	070512.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	76	56	115
Phenol-d6	86	54	113
Nitrobenzene-d5	81	31	164
2-Fluorobiphenyl	74	47	133
2,4,6-Tribromophenol	95	35	141
Terphenyl-d14	105	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	<0.005 j	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014 j
2-Methylphenol	<0.0064	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019 jl	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062 j
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	<0.013
2-Methylnaphthalene	<0.001	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EB-24-10.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-29
Date Analyzed:	07/05/13	Data File:	070513.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	80	56	115
Phenol-d6	93	54	113
Nitrobenzene-d5	89	31	164
2-Fluorobiphenyl	82	47	133
2,4,6-Tribromophenol	97	35	141
Terphenyl-d14	94	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	0.0069 j	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014 j
2-Methylphenol	<0.0064	Dibenzofuran	0.011
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058 jl	Pentachlorophenol	0.0074 j
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	0.017
2-Methylnaphthalene	0.054	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

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ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EB-24-12.5	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306270-30
Date Analyzed:	07/22/13	Data File:	072220.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	79	56	115
Phenol-d6	78	54	113
Nitrobenzene-d5	82	31	164
2-Fluorobiphenyl	87	47	133
2,4,6-Tribromophenol	99	35	141
Terphenyl-d14	95	64	125

Compounds:	Concentration mg/kg (ppm)
2-Methylnaphthalene	<0.001

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	03-1240 mb
Date Analyzed:	07/05/13	Data File:	070506.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	90	56	115
Phenol-d6	94	54	113
Nitrobenzene-d5	98	31	164
2-Fluorobiphenyl	95	47	133
2,4,6-Tribromophenol	97	35	141
Terphenyl-d14	112	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	<0.005 j	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014 j
2-Methylphenol	<0.0064	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019 jl	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062 j
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	<0.013
2-Methylnaphthalene	<0.001	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	03-1253 mb
Date Analyzed:	07/09/13	Data File:	070918.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	84	56	115
Phenol-d6	87	54	113
Nitrobenzene-d5	91	31	164
2-Fluorobiphenyl	91	47	133
2,4,6-Tribromophenol	91	35	141
Terphenyl-d14	90	64	125

Compounds:	Concentration mg/kg (ppm)
Benzyl butyl phthalate	<0.0058
2-Methylnaphthalene	<0.001

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-2S-2.5	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-01
Date Analyzed:	07/08/13	Data File:	070809.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	80	50	150
Benzo(a)anthracene-d12	94	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.00039
Acenaphthylene	0.00011
Acenaphthene	<0.00014
Fluorene	<0.00015
Phenanthrene	0.0013
Anthracene	0.00016
Fluoranthene	0.0012
Pyrene	0.0015
Benz(a)anthracene	0.00084
Chrysene	0.0011
Benzo(a)pyrene	0.0012
Benzo(b)fluoranthene	0.0012
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	0.0010
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	0.00099

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-2S-5.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-02
Date Analyzed:	07/10/13	Data File:	071009.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	87	50	150
Benzo(a)anthracene-d12	92	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.00022
Acenaphthylene	<0.000091
Acenaphthene	<0.00014
Fluorene	<0.00015
Phenanthrene	0.00042
Anthracene	<0.000088
Fluoranthene	<0.00028
Pyrene	<0.00026
Benz(a)anthracene	<0.00018
Chrysene	<0.00019
Benzo(a)pyrene	<0.00022
Benzo(b)fluoranthene	<0.00018
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	<0.00062
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	<0.00034

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-2S-10.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-04
Date Analyzed:	07/08/13	Data File:	070811.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	61	50	150
Benzo(a)anthracene-d12	70	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.00022
Acenaphthylene	<0.000091
Acenaphthene	<0.00014
Fluorene	<0.00015
Phenanthrene	0.00053
Anthracene	<0.000088
Fluoranthene	<0.00028
Pyrene	<0.00026
Benz(a)anthracene	<0.00018
Chrysene	<0.00019
Benzo(a)pyrene	<0.00022
Benzo(b)fluoranthene	<0.00018
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	<0.00062
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	<0.00034

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-17-1.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-06
Date Analyzed:	07/15/13	Data File:	071510.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	68	50	150
Benzo(a)anthracene-d12	105	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.00048
Acenaphthylene	0.00015
Acenaphthene	<0.00014
Fluorene	<0.00015
Phenanthrene	0.0068
Anthracene	0.00092
Fluoranthene	0.0036
Pyrene	0.0053
Benz(a)anthracene	0.0016
Chrysene	0.0048
Benzo(a)pyrene	0.0014
Benzo(b)fluoranthene	0.0023
Benzo(k)fluoranthene	0.00042
Indeno(1,2,3-cd)pyrene	0.0013
Dibenz(a,h)anthracene	0.00049
Benzo(g,h,i)perylene	0.0025

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ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-17-5.75	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-08 1/10
Date Analyzed:	07/15/13	Data File:	071513.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	12 ds	50	150
Benzo(a)anthracene-d12	10 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.0022
Acenaphthylene	<0.00091
Acenaphthene	<0.0014
Fluorene	<0.0015
Phenanthrene	0.0036
Anthracene	<0.00088
Fluoranthene	<0.0028
Pyrene	<0.0026
Benz(a)anthracene	<0.0018
Chrysene	0.0048
Benzo(a)pyrene	0.0023
Benzo(b)fluoranthene	0.0022
Benzo(k)fluoranthene	<0.0036
Indeno(1,2,3-cd)pyrene	<0.0062
Dibenz(a,h)anthracene	<0.0034
Benzo(g,h,i)perylene	<0.0034

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-17-10.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-10
Date Analyzed:	07/05/13	Data File:	070526.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	77	50	150
Benzo(a)anthracene-d12	89	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.00023
Acenaphthylene	<0.000091
Acenaphthene	<0.00014
Fluorene	<0.00015
Phenanthrene	0.00085
Anthracene	<0.000088
Fluoranthene	<0.00028
Pyrene	<0.00026
Benz(a)anthracene	0.00027
Chrysene	0.00026
Benzo(a)pyrene	<0.00022
Benzo(b)fluoranthene	0.00020
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	<0.00062
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	<0.00034

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-14-1.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-12 1/100
Date Analyzed:	07/15/13	Data File:	071511.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	79 ds	50	150
Benzo(a)anthracene-d12	153 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.022
Acenaphthylene	<0.0091
Acenaphthene	<0.014
Fluorene	<0.015
Phenanthrene	<0.032
Anthracene	0.0089
Fluoranthene	<0.028
Pyrene	<0.026
Benz(a)anthracene	0.022
Chrysene	0.058
Benzo(a)pyrene	0.024
Benzo(b)fluoranthene	0.028
Benzo(k)fluoranthene	<0.036
Indeno(1,2,3-cd)pyrene	<0.062
Dibenz(a,h)anthracene	<0.034
Benzo(g,h,i)perylene	0.036

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ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-14-5.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-14 1/100
Date Analyzed:	07/08/13	Data File:	070815.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	35688 ds	50	150
Benzo(a)anthracene-d12	131 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.13
Acenaphthylene	0.064
Acenaphthene	<0.014
Fluorene	0.064
Phenanthrene	0.21
Anthracene	0.049
Fluoranthene	0.33
Pyrene	0.40
Benz(a)anthracene	0.23
Chrysene	0.25
Benzo(a)pyrene	0.22
Benzo(b)fluoranthene	0.25
Benzo(k)fluoranthene	0.086
Indeno(1,2,3-cd)pyrene	0.15
Dibenz(a,h)anthracene	0.039
Benzo(g,h,i)perylene	0.13

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-14-10.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-16
Date Analyzed:	07/08/13	Data File:	070816.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	68	50	150
Benzo(a)anthracene-d12	72	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.00024
Acenaphthylene	0.00053
Acenaphthene	<0.00014
Fluorene	0.00046
Phenanthrene	0.0020
Anthracene	0.00043
Fluoranthene	0.0034
Pyrene	0.0042
Benz(a)anthracene	0.0017
Chrysene	0.0019
Benzo(a)pyrene	<0.00022
Benzo(b)fluoranthene	0.0012
Benzo(k)fluoranthene	0.00047
Indeno(1,2,3-cd)pyrene	<0.00062
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	0.00041

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-14-12.5	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306270-17
Date Analyzed:	07/22/13	Data File:	072209.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	54	50	150
Benzo(a)anthracene-d12	79	35	159

Compounds:	Concentration mg/kg (ppm)
Benz(a)anthracene	<0.00018
Benzo(b)fluoranthene	<0.00018

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-24-1.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-18
Date Analyzed:	07/10/13	Data File:	071007.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	94	50	150
Benzo(a)anthracene-d12	101	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.00035
Acenaphthylene	0.00015
Acenaphthene	<0.00014
Fluorene	0.00019
Phenanthrene	0.0017
Anthracene	0.00048
Fluoranthene	0.0028
Pyrene	0.0032
Benz(a)anthracene	0.0024
Chrysene	0.0033
Benzo(a)pyrene	0.0027
Benzo(b)fluoranthene	0.0038
Benzo(k)fluoranthene	0.0011
Indeno(1,2,3-cd)pyrene	0.0026
Dibenz(a,h)anthracene	0.00063
Benzo(g,h,i)perylene	0.0024

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-24-5.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-20 1/20
Date Analyzed:	07/08/13	Data File:	070818.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	119 ds	50	150
Benzo(a)anthracene-d12	100 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.015
Acenaphthylene	0.038
Acenaphthene	0.031
Fluorene	0.015
Phenanthrene	0.13
Anthracene	0.054
Fluoranthene	0.24
Pyrene	0.27
Benz(a)anthracene	0.11
Chrysene	0.19
Benzo(a)pyrene	0.18
Benzo(b)fluoranthene	0.30
Benzo(k)fluoranthene	0.055
Indeno(1,2,3-cd)pyrene	0.26
Dibenz(a,h)anthracene	0.042
Benzo(g,h,i)perylene	0.21

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-38-1.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-21 1/10
Date Analyzed:	07/08/13	Data File:	070819.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	104 ds	50	150
Benzo(a)anthracene-d12	117 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.19
Acenaphthylene	0.018
Acenaphthene	0.0039
Fluorene	0.46
Phenanthrene	0.75
Anthracene	5.8 ve
Fluoranthene	0.12
Pyrene	0.13
Benz(a)anthracene	0.33
Chrysene	1.2 ve
Benzo(a)pyrene	0.34
Benzo(b)fluoranthene	0.41
Benzo(k)fluoranthene	0.14
Indeno(1,2,3-cd)pyrene	0.28
Dibenz(a,h)anthracene	0.088
Benzo(g,h,i)perylene	0.25

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-38-1.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-21 1/100
Date Analyzed:	07/10/13	Data File:	071008.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	532 ds	50	150
Benzo(a)anthracene-d12	95 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.22
Acenaphthylene	0.012
Acenaphthene	<0.014
Fluorene	0.47
Phenanthrene	0.76
Anthracene	7.0
Fluoranthene	0.12
Pyrene	0.14
Benz(a)anthracene	0.30
Chrysene	1.3
Benzo(a)pyrene	0.36
Benzo(b)fluoranthene	0.39
Benzo(k)fluoranthene	0.19
Indeno(1,2,3-cd)pyrene	0.31
Dibenz(a,h)anthracene	0.070
Benzo(g,h,i)perylene	0.26

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-38-5.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-23 1/500
Date Analyzed:	07/10/13	Data File:	071011.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	2160 ds	50	150
Benzo(a)anthracene-d12	565 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.16
Acenaphthylene	0.15
Acenaphthene	0.65
Fluorene	0.61
Phenanthrene	7.3
Anthracene	2.2
Fluoranthene	15
Pyrene	14
Benz(a)anthracene	7.4
Chrysene	9.4
Benzo(a)pyrene	7.5
Benzo(b)fluoranthene	8.9
Benzo(k)fluoranthene	3.2
Indeno(1,2,3-cd)pyrene	5.1
Dibenz(a,h)anthracene	1.2
Benzo(g,h,i)perylene	4.3

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-38-10.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-25
Date Analyzed:	07/08/13	Data File:	070830.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	80	50	150
Benzo(a)anthracene-d12	87	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.032
Acenaphthylene	0.0011
Acenaphthene	0.091 ve
Fluorene	0.019
Phenanthrene	0.035
Anthracene	0.013
Fluoranthene	0.025
Pyrene	0.023
Benz(a)anthracene	0.0066
Chrysene	0.0093
Benzo(a)pyrene	0.0041
Benzo(b)fluoranthene	0.0073
Benzo(k)fluoranthene	0.0020
Indeno(1,2,3-cd)pyrene	0.0025
Dibenz(a,h)anthracene	0.00070
Benzo(g,h,i)perylene	0.0020

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-38-10.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-25 1/10
Date Analyzed:	07/10/13	Data File:	071010.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	154 ds	50	150
Benzo(a)anthracene-d12	78 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.031
Acenaphthylene	0.0011
Acenaphthene	0.10
Fluorene	0.020
Phenanthrene	0.037
Anthracene	0.016
Fluoranthene	0.029
Pyrene	0.026
Benz(a)anthracene	0.0067
Chrysene	0.010
Benzo(a)pyrene	0.0041
Benzo(b)fluoranthene	0.0064
Benzo(k)fluoranthene	<0.0036
Indeno(1,2,3-cd)pyrene	<0.0062
Dibenz(a,h)anthracene	<0.0034
Benzo(g,h,i)perylene	<0.0034

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-38-12.5	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306270-26
Date Analyzed:	07/22/13	Data File:	072210.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	3 vo	50	150
Benzo(a)anthracene-d12	1 vo	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.00046
Acenaphthene	0.00093
Benz(a)anthracene	0.00077
Chrysene	0.00098
Benzo(a)pyrene	<0.00022
Benzo(b)fluoranthene	0.00091
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	<0.00062

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-24-10.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-29
Date Analyzed:	07/08/13	Data File:	070832.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	70	50	150
Benzo(a)anthracene-d12	83	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.00084
Acenaphthylene	0.00048
Acenaphthene	0.0052
Fluorene	0.0022
Phenanthrene	0.022
Anthracene	0.0044
Fluoranthene	0.015
Pyrene	0.018
Benz(a)anthracene	0.0059
Chrysene	0.0069
Benzo(a)pyrene	0.0064
Benzo(b)fluoranthene	0.0067
Benzo(k)fluoranthene	0.0021
Indeno(1,2,3-cd)pyrene	0.0048
Dibenz(a,h)anthracene	0.0014
Benzo(g,h,i)perylene	0.0054

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-24-12.5	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306270-30
Date Analyzed:	07/22/13	Data File:	072211.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	3 vo	50	150
Benzo(a)anthracene-d12	0 vo	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.00025
Benz(a)anthracene	<0.00018
Chrysene	<0.00019
Benzo(a)pyrene	<0.00022
Benzo(b)fluoranthene	<0.00018
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	<0.00062
Dibenz(a,h)anthracene	<0.00034

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	03-1254 mb2
Date Analyzed:	07/08/13	Data File:	070826.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	76	50	150
Benzo(a)anthracene-d12	87	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.00022
Acenaphthylene	<0.000091
Acenaphthene	<0.00014
Fluorene	<0.00015
Phenanthrene	<0.00032
Anthracene	<0.000088
Fluoranthene	<0.00028
Pyrene	<0.00026
Benz(a)anthracene	<0.00018
Chrysene	<0.00019
Benzo(a)pyrene	<0.00022
Benzo(b)fluoranthene	<0.00018
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	<0.00062
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	<0.00034

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	03-1239 mb
Date Analyzed:	07/05/13	Data File:	070514.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	82	50	150
Benzo(a)anthracene-d12	98	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.00022
Acenaphthylene	<0.000091
Acenaphthene	<0.00014
Fluorene	<0.00015
Phenanthrene	<0.00032
Anthracene	<0.000088
Fluoranthene	<0.00028
Pyrene	<0.00026
Benz(a)anthracene	<0.00018
Chrysene	<0.00019
Benzo(a)pyrene	<0.00022
Benzo(b)fluoranthene	<0.00018
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	<0.00062
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	<0.00034

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-2S-2.5	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-01
Date Analyzed:	07/11/13	Data File:	49.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mcp

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	100	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-2S-5.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-02
Date Analyzed:	07/11/13	Data File:	51.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mcp

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	98	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-2S-10.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-04
Date Analyzed:	07/11/13	Data File:	53.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mcp

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	87	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EB-17-1.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-06
Date Analyzed:	07/11/13	Data File:	55.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mcp

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	101	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EB-17-5.75	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-08
Date Analyzed:	07/11/13	Data File:	57.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mcp

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	99	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EB-17-10.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-10 1/100
Date Analyzed:	07/12/13	Data File:	16.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	150 ds	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<3.3
Aroclor 1232	<3.3
Aroclor 1016	<3.3
Aroclor 1242	<3.3
Aroclor 1248	<3.3
Aroclor 1254	<3.3
Aroclor 1260	<3.3

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EB-17-12.5	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306270-11
Date Analyzed:	06/29/13	Data File:	44.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	92	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EB-14-1.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-12 1/5
Date Analyzed:	07/11/13	Data File:	63.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mcp

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	125 ds	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.17
Aroclor 1232	<0.17
Aroclor 1016	<0.17
Aroclor 1242	<0.17
Aroclor 1248	<0.17
Aroclor 1254	<0.17
Aroclor 1260	<0.17

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EB-14-5.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-14 1/100
Date Analyzed:	07/12/13	Data File:	18.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	100 ds	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<3.3
Aroclor 1232	<3.3
Aroclor 1016	<3.3
Aroclor 1242	<3.3
Aroclor 1248	<3.3
Aroclor 1254	<3.3
Aroclor 1260	<3.3

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EB-14-10.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-16 1/100
Date Analyzed:	07/12/13	Data File:	20.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	100 ds	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<3.3
Aroclor 1232	<3.3
Aroclor 1016	<3.3
Aroclor 1242	<3.3
Aroclor 1248	<3.3
Aroclor 1254	<3.3
Aroclor 1260	<3.3

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EB-14-12.5	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	306270-17
Date Analyzed:	06/29/13	Data File:	46.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	94	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EB-24-1.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-18
Date Analyzed:	07/11/13	Data File:	69.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mcp

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	110	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EB-24-5.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-20 1/5
Date Analyzed:	07/11/13	Data File:	08.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	135 ds	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.17
Aroclor 1232	<0.17
Aroclor 1016	<0.17
Aroclor 1242	<0.17
Aroclor 1248	<0.17
Aroclor 1254	0.19
Aroclor 1260	<0.17

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EB-38-1.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-21
Date Analyzed:	07/11/13	Data File:	10.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	91	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	0.057
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EB-38-5.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-23
Date Analyzed:	07/11/13	Data File:	12.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	43 vo	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033 js
Aroclor 1232	<0.033 js
Aroclor 1016	<0.033 js
Aroclor 1242	<0.033 js
Aroclor 1248	<0.033 js
Aroclor 1254	<0.033 js
Aroclor 1260	<0.033 js

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EB-38-10.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-25
Date Analyzed:	07/11/13	Data File:	71.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mcp

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	120	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EB-24-10.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-29
Date Analyzed:	07/11/13	Data File:	14.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	125	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	03-1247 mb
Date Analyzed:	07/11/13	Data File:	47.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mcp

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	94	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	06/25/13	Lab ID:	03-1255 mb
Date Analyzed:	06/28/13	Data File:	10.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	100	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-2S-2.5	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-01
Date Analyzed:	07/03/13	Data File:	306270-01.048
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	101	60	125
Indium	91	60	125
Holmium	94	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.101
Chromium	5.86
Nickel	3.96
Copper	6.51
Zinc	15.1
Arsenic	1.74
Selenium	<0.912
Silver	<0.0784
Cadmium	<0.204
Antimony	0.269
Barium	17.2
Thallium	0.0702
Lead	3.16

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-2S-5.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-02
Date Analyzed:	07/03/13	Data File:	306270-02.052
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	103	60	125
Indium	92	60	125
Holmium	97	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	<0.0858
Chromium	6.76
Nickel	3.69
Copper	5.62
Zinc	12.4
Arsenic	1.07
Selenium	<0.912
Silver	<0.0784
Cadmium	<0.204
Antimony	0.129
Barium	12.1
Thallium	0.0522
Lead	1.11

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-2S-10.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-04
Date Analyzed:	07/03/13	Data File:	306270-04.053
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	106	60	125
Indium	88	60	125
Holmium	93	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.222
Chromium	7.92
Nickel	5.77
Copper	15.8
Zinc	19.5
Arsenic	1.93
Selenium	<0.912
Silver	<0.0784
Cadmium	<0.204
Antimony	0.177
Barium	40.0
Thallium	<0.0434 j
Lead	2.49

Analysis For Total Metals By EPA Method 200.8

Client ID:	EB-17-1.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-06
Date Analyzed:	07/03/13	Data File:	306270-06.054
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	96	60	125
Indium	89	60	125
Holmium	91	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.178
Chromium	7.20
Nickel	9.36
Copper	12.8
Zinc	28.5
Arsenic	10.8
Selenium	<0.912
Silver	<0.0784
Cadmium	0.462
Antimony	9.42
Barium	57.3
Thallium	<0.0434 j
Lead	4.92

Analysis For Total Metals By EPA Method 200.8

Client ID:	EB-17-5.75	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-08
Date Analyzed:	07/03/13	Data File:	306270-08.055
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	102	60	125
Indium	92	60	125
Holmium	96	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	<0.0858
Chromium	3.84
Nickel	2.82
Copper	5.74
Zinc	10.8
Arsenic	2.26
Selenium	<0.912
Silver	<0.0784
Cadmium	<0.204
Antimony	0.251
Barium	14.4
Thallium	<0.0434 j
Lead	0.945

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ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	EB-17-10.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-10
Date Analyzed:	07/03/13	Data File:	306270-10.056
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	107	60	125
Indium	90	60	125
Holmium	96	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.236
Chromium	9.76
Nickel	8.43
Copper	19.3
Zinc	19.6
Arsenic	4.39
Selenium	<0.912
Silver	<0.0784
Cadmium	<0.204
Antimony	0.196
Barium	51.2
Thallium	0.0851
Lead	3.57

Analysis For Total Metals By EPA Method 200.8

Client ID:	EB-14-1.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-12
Date Analyzed:	07/03/13	Data File:	306270-12.057
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	105	60	125
Indium	90	60	125
Holmium	95	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.120
Chromium	9.73
Nickel	15.9
Copper	18.4
Zinc	27.8
Arsenic	4.89
Selenium	<0.912
Silver	<0.0784
Cadmium	0.243
Antimony	1.35
Barium	36.0
Thallium	<0.0434 j
Lead	7.31

Analysis For Total Metals By EPA Method 200.8

Client ID:	EB-14-5.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-14
Date Analyzed:	07/03/13	Data File:	306270-14.058
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	91	60	125
Indium	80	60	125
Holmium	85	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.157
Chromium	8.09
Nickel	7.12
Copper	19.4
Zinc	47.5
Arsenic	10.4
Selenium	<0.912
Silver	<0.0784
Cadmium	0.340
Antimony	7.44
Barium	38.5
Thallium	<0.0434 j
Lead	19.4

Analysis For Total Metals By EPA Method 200.8

Client ID:	EB-14-10.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-16
Date Analyzed:	07/03/13	Data File:	306270-16.059
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	100	60	125
Indium	88	60	125
Holmium	94	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.167
Chromium	8.29
Nickel	5.85
Copper	16.0
Zinc	17.1
Arsenic	2.33
Selenium	<0.912
Silver	<0.0784
Cadmium	<0.204
Antimony	0.142
Barium	33.5
Thallium	0.0679
Lead	2.51

Analysis For Total Metals By EPA Method 200.8

Client ID:	EB-24-1.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-18
Date Analyzed:	07/03/13	Data File:	306270-18.060
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	96	60	125
Indium	84	60	125
Holmium	88	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.128
Chromium	9.35
Nickel	13.2
Copper	18.9
Zinc	35.7
Arsenic	4.91
Selenium	<0.912
Silver	<0.0784
Cadmium	<0.204
Antimony	0.926
Barium	31.6
Thallium	<0.0434 j
Lead	5.82

Analysis For Total Metals By EPA Method 200.8

Client ID:	EB-24-5.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-20
Date Analyzed:	07/03/13	Data File:	306270-20.061
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	106	60	125
Indium	84	60	125
Holmium	90	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.158
Chromium	14.4
Nickel	17.2
Copper	70.9
Zinc	229
Arsenic	35.8
Selenium	<0.912
Silver	0.103
Cadmium	0.411
Antimony	21.2
Barium	165
Thallium	<0.0434 j
Lead	74.5

Analysis For Total Metals By EPA Method 200.8

Client ID:	EB-38-1.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-21
Date Analyzed:	07/03/13	Data File:	306270-21.063
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	104	60	125
Indium	91	60	125
Holmium	95	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.146
Chromium	10.5
Nickel	12.4
Copper	37.7
Zinc	119
Arsenic	32.2
Selenium	<0.912
Silver	0.133
Cadmium	0.229
Antimony	15.7
Barium	98.9
Thallium	0.0589
Lead	38.5

Analysis For Total Metals By EPA Method 200.8

Client ID:	EB-38-5.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-23 x20
Date Analyzed:	07/03/13	Data File:	306270-23 x20.093
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	106	60	125
Indium	120	60	125
Holmium	94	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	2.52
Chromium	149
Nickel	64.5
Copper	3,610
Zinc	12,500
Arsenic	4,000
Selenium	<18.2
Silver	4.17
Cadmium	5.08
Antimony	2,170
Barium	226
Thallium	3.59
Lead	3,230

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ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	EB-38-10.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-25
Date Analyzed:	07/03/13	Data File:	306270-25.065
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	102	60	125
Indium	88	60	125
Holmium	96	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.208
Chromium	8.92
Nickel	10.3
Copper	17.4
Zinc	34.4
Arsenic	5.62
Selenium	<0.912
Silver	<0.0784
Cadmium	0.270
Antimony	7.44
Barium	39.1
Thallium	0.0766
Lead	3.73

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ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	EB-38-12.5	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/10/13	Lab ID:	306270-26
Date Analyzed:	07/11/13	Data File:	306270-26.056
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	90	60	125
Holmium	94	60	125

Analyte:	Concentration mg/kg (ppm)
Antimony	<0.106 j
Barium	21.0
Thallium	<0.044 j

Analysis For Total Metals By EPA Method 200.8

Client ID:	EB-24-10.0	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	306270-29
Date Analyzed:	07/03/13	Data File:	306270-29.066
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	104	60	125
Indium	91	60	125
Holmium	95	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.232
Chromium	9.96
Nickel	7.92
Copper	19.2
Zinc	19.3
Arsenic	2.60
Selenium	<0.912
Silver	<0.0784
Cadmium	<0.204
Antimony	2.07
Barium	45.3
Thallium	0.0694
Lead	3.25

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/01/13	Lab ID:	I3-392 mb
Date Analyzed:	07/03/13	Data File:	I3-392 mb.046
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	98	60	125
Indium	97	60	125
Holmium	97	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	<0.0858
Chromium	<0.47
Nickel	<0.206
Copper	<0.071 j
Zinc	<0.97
Arsenic	<0.422
Selenium	<0.912
Silver	<0.0784
Cadmium	<0.204
Antimony	<0.106
Barium	<0.0524
Thallium	<0.0434 j
Lead	<0.0496

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00019
Date Extracted:	07/09/13	Lab ID:	I3-408 mb
Date Analyzed:	07/11/13	Data File:	I3-408 mb.060
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	93	60	125
Holmium	92	60	125

Analyte:	Concentration mg/kg (ppm)
Antimony	<0.106 j
Barium	<0.052
Thallium	<0.044 j

Date of Report: 07/30/13
Date Received: 06/17/13
Project: Crowley RIFS 101.00205.00019, F&BI 306270
Date Extracted: 07/01/13
Date Analyzed: 07/03/13

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Total Mercury
EMW-2S-2.5 306270-01	0.043
EMW-2S-5.0 306270-02	0.011
EMW-2S-10.0 306270-04	0.054
EB-17-1.0 306270-06	0.022
EB-17-5.75 306270-08	0.0081
EB-17-10.0 306270-10	0.037
EB-14-1.0 306270-12	0.017
EB-14-5.0 306270-14	0.037
EB-14-10.0 306270-16	0.028
EB-24-1.0 306270-18	0.014
EB-24-5.0 306270-20	0.068
EB-38-1.0 306270-21	0.064
EB-38-5.0 306270-23 1/5	0.42

Date of Report: 07/30/13
Date Received: 06/17/13
Project: Crowley RIFS 101.00205.00019, F&BI 306270
Date Extracted: 07/01/13
Date Analyzed: 07/03/13

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Total Mercury
EB-38-10.0 306270-25	0.029
EB-24-10.0 306270-29	0.036
Method Blank	<0.002

Date of Report: 07/30/13
Date Received: 06/17/13
Project: Crowley RIFS 101.00205.00019, F&BI 306270

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TPH AS GASOLINE USING METHOD NWTPH-Gx

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Gasoline	mg/kg (ppm)	20	90	90	61-153	0

Date of Report: 07/30/13
Date Received: 06/17/13
Project: Crowley RIFS 101.00205.00019, F&BI 306270

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 306270-02 (Matrix Spike) Silica Gel

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	500	<12	105	109	64-133	4

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	500	101	58-147

Date of Report: 07/30/13
Date Received: 06/17/13
Project: Crowley RIFS 101.00205.00019, F&BI 306270

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 306270-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	mg/kg (ppm)	2.5	<0.02	25	22	10-56	13
Chloromethane	mg/kg (ppm)	2.5	<0.026	53	49	10-90	8
Vinyl chloride	mg/kg (ppm)	2.5	<0.016	55	51	10-91	8
Bromomethane	mg/kg (ppm)	2.5	<0.034	90	83	10-110	8
Chloroethane	mg/kg (ppm)	2.5	<0.024	73	70	10-101	4
Trichlorofluoromethane	mg/kg (ppm)	2.5	<0.02	68	64	10-95	6
Acetone	mg/kg (ppm)	12.5	<0.2	115	106	11-141	8
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.026	74	68	11-103	8
Methylene chloride	mg/kg (ppm)	2.5	<0.054	99	96	14-128	3
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2.5	<0.013	98	94	17-134	4
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.024	84	79	13-112	6
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.017	87	82	23-115	6
2,2-Dichloropropane	mg/kg (ppm)	2.5	<0.026	97	95	18-117	2
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.022	88	82	25-120	7
Chloroform	mg/kg (ppm)	2.5	<0.017	89	84	29-117	6
2-Butanone (MEK)	mg/kg (ppm)	12.5	<0.14	104	99	20-133	5
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.016	89	85	22-124	5
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.022	95	91	27-112	4
1,1-Dichloropropene	mg/kg (ppm)	2.5	<0.024	84	80	26-107	5
Carbon tetrachloride	mg/kg (ppm)	2.5	<0.03	108	101	22-115	7
Benzene	mg/kg (ppm)	2.5	<0.014	85	81	26-114	5
Trichloroethene	mg/kg (ppm)	2.5	<0.034	87	83	30-112	5
1,2-Dichloropropane	mg/kg (ppm)	2.5	<0.034	91	88	31-119	3
Bromodichloromethane	mg/kg (ppm)	2.5	<0.024	101	95	31-131	6
Dibromomethane	mg/kg (ppm)	2.5	<0.022	94	88	27-124	7
4-Methyl-2-pentanone	mg/kg (ppm)	12.5	<0.14	104	97	16-147	7
cis-1,3-Dichloropropene	mg/kg (ppm)	2.5	<0.022	111	104	28-137	7
Toluene	mg/kg (ppm)	2.5	<0.017	84	80	34-112	5
trans-1,3-Dichloropropene	mg/kg (ppm)	2.5	<0.015	100	96	30-136	4
1,1,2-Trichloroethane	mg/kg (ppm)	2.5	<0.014	93	89	32-126	4
2-Hexanone	mg/kg (ppm)	12.5	<0.096	108	101	17-147	7
1,3-Dichloropropane	mg/kg (ppm)	2.5	<0.02	91	88	29-125	3
Tetrachloroethene	mg/kg (ppm)	2.5	<0.026	83	80	27-110	4
Dibromochloromethane	mg/kg (ppm)	2.5	<0.026	100	96	32-143	4
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2.5	<0.03	113	108	32-126	5
Chlorobenzene	mg/kg (ppm)	2.5	<0.014	86	83	37-113	4
Ethylbenzene	mg/kg (ppm)	2.5	<0.013	86	82	38-111	5
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	2.5	<0.028	111	106	35-126	5
m,p-Xylene	mg/kg (ppm)	5	<0.03	87	84	38-112	4
o-Xylene	mg/kg (ppm)	2.5	<0.034	86	83	38-113	4
Styrene	mg/kg (ppm)	2.5	<0.022	89	85	38-118	5
Isopropylbenzene	mg/kg (ppm)	2.5	<0.019	87	83	37-114	5
Bromoform	mg/kg (ppm)	2.5	<0.034	103	96	18-155	7
n-Propylbenzene	mg/kg (ppm)	2.5	<0.017	89	85	36-114	5
Bromobenzene	mg/kg (ppm)	2.5	<0.012	89	85	40-115	5
1,3,5-Trimethylbenzene	mg/kg (ppm)	2.5	<0.011	90	85	35-116	6
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	2.5	<0.036	99	94	33-128	5
1,2,3-Trichloropropane	mg/kg (ppm)	2.5	<0.022	92	88	33-123	4
2-Chlorotoluene	mg/kg (ppm)	2.5	<0.016	87	83	39-110	5
4-Chlorotoluene	mg/kg (ppm)	2.5	<0.019	89	84	39-111	6
tert-Butylbenzene	mg/kg (ppm)	2.5	<0.022	90	86	36-116	5
1,2,4-Trimethylbenzene	mg/kg (ppm)	2.5	<0.016	88	84	35-116	5
sec-Butylbenzene	mg/kg (ppm)	2.5	<0.015	90	86	33-118	5
p-Isopropyltoluene	mg/kg (ppm)	2.5	<0.012	90	85	32-119	6
1,3-Dichlorobenzene	mg/kg (ppm)	2.5	<0.02	87	82	38-111	6
1,4-Dichlorobenzene	mg/kg (ppm)	2.5	<0.032	86	82	39-109	5
1,2-Dichlorobenzene	mg/kg (ppm)	2.5	<0.016	86	82	40-111	5
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	2.5	<0.08	102	97	34-134	5
1,2,4-Trichlorobenzene	mg/kg (ppm)	2.5	<0.036	81	75	31-117	8
Hexachlorobutadiene	mg/kg (ppm)	2.5	<0.04	77	74	25-122	4
Naphthalene	mg/kg (ppm)	2.5	<0.024	86	81	39-120	6
1,2,3-Trichlorobenzene	mg/kg (ppm)	2.5	<0.019	75	73	35-117	3

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Dichlorodifluoromethane	mg/kg (ppm)	2.5	55	10-76
Chloromethane	mg/kg (ppm)	2.5	76	34-98
Vinyl chloride	mg/kg (ppm)	2.5	82	42-107
Bromomethane	mg/kg (ppm)	2.5	92	46-113
Chloroethane	mg/kg (ppm)	2.5	91	47-115
Trichlorofluoromethane	mg/kg (ppm)	2.5	94	53-112
Acetone	mg/kg (ppm)	12.5	97	39-147
1,1-Dichloroethene	mg/kg (ppm)	2.5	92	65-110
Methylene chloride	mg/kg (ppm)	2.5	97	62-119
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2.5	105	72-122
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	99	71-113
1,1-Dichloroethane	mg/kg (ppm)	2.5	99	76-109
2,2-Dichloropropane	mg/kg (ppm)	2.5	116	64-151
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	98	77-110
Chloroform	mg/kg (ppm)	2.5	99	78-108
2-Butanone (MEK)	mg/kg (ppm)	12.5	101	60-121
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	98	80-109
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	112	72-116
1,1-Dichloropropene	mg/kg (ppm)	2.5	98	77-108
Carbon tetrachloride	mg/kg (ppm)	2.5	134	67-123
Benzene	mg/kg (ppm)	2.5	96	75-107
Trichloroethene	mg/kg (ppm)	2.5	99	72-107
1,2-Dichloropropane	mg/kg (ppm)	2.5	102	78-111
Bromodichloromethane	mg/kg (ppm)	2.5	117	75-126
Dibromomethane	mg/kg (ppm)	2.5	105	80-111
4-Methyl-2-pentanone	mg/kg (ppm)	12.5	108	80-128
cis-1,3-Dichloropropene	mg/kg (ppm)	2.5	123	71-138
Toluene	mg/kg (ppm)	2.5	95	79-112
trans-1,3-Dichloropropene	mg/kg (ppm)	2.5	111	77-135
1,1,2-Trichloroethane	mg/kg (ppm)	2.5	102	84-115
2-Hexanone	mg/kg (ppm)	12.5	105	71-129
1,3-Dichloropropane	mg/kg (ppm)	2.5	100	82-113
Tetrachloroethene	mg/kg (ppm)	2.5	96	77-110
Dibromochloromethane	mg/kg (ppm)	2.5	119	64-152
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2.5	127	83-116
Chlorobenzene	mg/kg (ppm)	2.5	97	82-113
Ethylbenzene	mg/kg (ppm)	2.5	96	81-114
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	2.5	133	76-125
m,p-Xylene	mg/kg (ppm)	5	98	82-115
o-Xylene	mg/kg (ppm)	2.5	97	81-116
Styrene	mg/kg (ppm)	2.5	99	81-118
Isopropylbenzene	mg/kg (ppm)	2.5	98	81-117
Bromoform	mg/kg (ppm)	2.5	127	50-174
n-Propylbenzene	mg/kg (ppm)	2.5	99	82-116
Bromobenzene	mg/kg (ppm)	2.5	98	82-118
1,3,5-Trimethylbenzene	mg/kg (ppm)	2.5	101	83-120
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	2.5	107	83-125
1,2,3-Trichloropropane	mg/kg (ppm)	2.5	100	79-116
2-Chlorotoluene	mg/kg (ppm)	2.5	95	80-114
4-Chlorotoluene	mg/kg (ppm)	2.5	98	82-114
tert-Butylbenzene	mg/kg (ppm)	2.5	100	82-116
1,2,4-Trimethylbenzene	mg/kg (ppm)	2.5	99	82-116
sec-Butylbenzene	mg/kg (ppm)	2.5	100	81-123
p-Isopropyltoluene	mg/kg (ppm)	2.5	100	82-124
1,3-Dichlorobenzene	mg/kg (ppm)	2.5	97	80-118
1,4-Dichlorobenzene	mg/kg (ppm)	2.5	86	79-117
1,2-Dichlorobenzene	mg/kg (ppm)	2.5	55	80-118
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	2.5	76	71-131
1,2,4-Trichlorobenzene	mg/kg (ppm)	2.5	82	75-122
Hexachlorobutadiene	mg/kg (ppm)	2.5	92	74-130
Naphthalene	mg/kg (ppm)	2.5	91	83-128
1,2,3-Trichlorobenzene	mg/kg (ppm)	2.5	94	80-126

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 306247-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Dichlorodifluoromethane	ug/L (ppb)	50	<0.16	105	55-144
Chloromethane	ug/L (ppb)	50	<0.22	104	67-131
Vinyl chloride	ug/L (ppb)	50	0.52	106	61-139
Bromomethane	ug/L (ppb)	50	<0.2	635 vo	66-129
Chloroethane	ug/L (ppb)	50	<0.18	191 vo	68-126
Trichlorofluoromethane	ug/L (ppb)	50	<0.17	136 vo	71-128
Acetone	ug/L (ppb)	250	<2.6	109	48-149
1,1-Dichloroethene	ug/L (ppb)	50	<0.19	105	71-123
Methylene chloride	ug/L (ppb)	50	<3	101	61-126
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	<0.13	106	68-125
trans-1,2-Dichloroethene	ug/L (ppb)	50	<0.24	104	72-122
1,1-Dichloroethane	ug/L (ppb)	50	<0.18	103	79-113
2,2-Dichloropropane	ug/L (ppb)	50	<0.3	119	58-132
cis-1,2-Dichloroethene	ug/L (ppb)	50	3.6	102	73-119
Chloroform	ug/L (ppb)	50	<0.24	100	80-112
2-Butanone (MEK)	ug/L (ppb)	250	<0.94	105	69-123
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<0.11	100	78-113
1,1,1-Trichloroethane	ug/L (ppb)	50	<0.2	113	79-116
1,1-Dichloropropene	ug/L (ppb)	50	<0.26	99	67-121
Carbon tetrachloride	ug/L (ppb)	50	<0.24	128 vo	72-123
Benzene	ug/L (ppb)	50	<0.13	98	79-109
Trichloroethene	ug/L (ppb)	50	1.4	100	75-109
1,2-Dichloropropane	ug/L (ppb)	50	<0.32	101	80-111
Bromodichloromethane	ug/L (ppb)	50	<0.38	116	78-117
Dibromomethane	ug/L (ppb)	50	<0.28	106	80-112
4-Methyl-2-pentanone	ug/L (ppb)	250	<1.3	111	79-123
cis-1,3-Dichloropropene	ug/L (ppb)	50	<0.2	116	76-120
Toluene	ug/L (ppb)	50	<0.13	96	73-117
trans-1,3-Dichloropropene	ug/L (ppb)	50	<0.34	105	75-122
1,1,2-Trichloroethane	ug/L (ppb)	50	<0.28	102	81-111
2-Hexanone	ug/L (ppb)	250	<1	111	75-126
1,3-Dichloropropane	ug/L (ppb)	50	<0.2	100	81-111
Tetrachloroethene	ug/L (ppb)	50	<0.28	97	72-113
Dibromochloromethane	ug/L (ppb)	50	<0.24	113	69-129
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	<0.24	124 vo	83-114
Chlorobenzene	ug/L (ppb)	50	<0.1	98	75-115
Ethylbenzene	ug/L (ppb)	50	<0.16	98	71-120
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	<0.32	128 vo	78-122
m,p-Xylene	ug/L (ppb)	100	<0.5	100	63-128
o-Xylene	ug/L (ppb)	50	<0.22	100	64-129
Styrene	ug/L (ppb)	50	<0.22	101	70-122
Isopropylbenzene	ug/L (ppb)	50	<0.15	101	76-118
Bromoform	ug/L (ppb)	50	<0.22	117	49-138
n-Propylbenzene	ug/L (ppb)	50	<0.14	99	74-117
Bromobenzene	ug/L (ppb)	50	<0.18	98	70-121
1,3,5-Trimethylbenzene	ug/L (ppb)	50	<0.18	102	81-112
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	<0.24	109	79-120
1,2,3-Trichloropropane	ug/L (ppb)	50	<0.28	101	72-119
2-Chlorotoluene	ug/L (ppb)	50	<0.13	97	77-114
4-Chlorotoluene	ug/L (ppb)	50	<0.16	98	81-109
tert-Butylbenzene	ug/L (ppb)	50	<0.15	101	81-116
1,2,4-Trimethylbenzene	ug/L (ppb)	50	<0.11	101	74-118
sec-Butylbenzene	ug/L (ppb)	50	<0.12	101	77-118
p-Isopropyltoluene	ug/L (ppb)	50	<0.15	101	64-132
1,3-Dichlorobenzene	ug/L (ppb)	50	<0.15	97	81-111
1,4-Dichlorobenzene	ug/L (ppb)	50	<0.094	97	78-110
1,2-Dichlorobenzene	ug/L (ppb)	50	<0.13	97	81-111
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	<0.44	112	69-129
1,2,4-Trichlorobenzene	ug/L (ppb)	50	<0.34	94	74-115
Hexachlorobutadiene	ug/L (ppb)	50	<0.46	89	67-120
Naphthalene	ug/L (ppb)	50	<0.28	102	63-136
1,2,3-Trichlorobenzene	ug/L (ppb)	50	<0.38	90	79-115

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	ug/L (ppb)	50	100	104	54-149	4
Chloromethane	ug/L (ppb)	50	97	102	67-133	5
Vinyl chloride	ug/L (ppb)	50	98	103	73-132	5
Bromomethane	ug/L (ppb)	50	604 vo	614 vo	69-123	2
Chloroethane	ug/L (ppb)	50	175 vo	186 vo	68-126	6
Trichlorofluoromethane	ug/L (ppb)	50	123	132	70-132	7
Acetone	ug/L (ppb)	250	102	110	44-145	8
1,1-Dichloroethene	ug/L (ppb)	50	100	106	75-119	6
Methylene chloride	ug/L (ppb)	50	98	104	63-132	6
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	91	98	70-122	7
trans-1,2-Dichloroethene	ug/L (ppb)	50	98	104	76-118	6
1,1-Dichloroethane	ug/L (ppb)	50	96	102	80-116	6
2,2-Dichloropropane	ug/L (ppb)	50	111	125	62-141	12
cis-1,2-Dichloroethene	ug/L (ppb)	50	95	100	81-111	5
Chloroform	ug/L (ppb)	50	118 vo	124 vo	81-109	5
2-Butanone (MEK)	ug/L (ppb)	250	98	101	53-140	3
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	93	98	79-109	5
1,1,1-Trichloroethane	ug/L (ppb)	50	106	113	80-116	6
1,1-Dichloropropene	ug/L (ppb)	50	94	99	78-112	5
Carbon tetrachloride	ug/L (ppb)	50	128	136 vo	72-128	6
Benzene	ug/L (ppb)	50	93	96	81-108	3
Trichloroethene	ug/L (ppb)	50	94	99	77-108	5
1,2-Dichloropropane	ug/L (ppb)	50	96	101	82-109	5
Bromodichloromethane	ug/L (ppb)	50	116	121 vo	76-120	4
Dibromomethane	ug/L (ppb)	50	100	105	80-110	5
4-Methyl-2-pentanone	ug/L (ppb)	250	104	110	59-142	6
cis-1,3-Dichloropropene	ug/L (ppb)	50	113	120	76-128	6
Toluene	ug/L (ppb)	50	92	96	83-108	4
trans-1,3-Dichloropropene	ug/L (ppb)	50	104	108	76-128	4
1,1,2-Trichloroethane	ug/L (ppb)	50	97	101	82-110	4
2-Hexanone	ug/L (ppb)	250	99	105	53-145	6
1,3-Dichloropropane	ug/L (ppb)	50	94	99	83-110	5
Tetrachloroethene	ug/L (ppb)	50	91	94	78-109	3
Dibromochloromethane	ug/L (ppb)	50	118	123	63-140	4
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	118 vo	124 vo	85-113	5
Chlorobenzene	ug/L (ppb)	50	92	96	84-108	4
Ethylbenzene	ug/L (ppb)	50	93	97	84-110	4
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	128 vo	135 vo	76-125	5
m,p-Xylene	ug/L (ppb)	100	95	99	84-112	4
o-Xylene	ug/L (ppb)	50	94	100	82-113	6
Styrene	ug/L (ppb)	50	96	101	84-116	5
Isopropylbenzene	ug/L (ppb)	50	95	100	81-122	5
Bromoform	ug/L (ppb)	50	127	130	40-161	2
n-Propylbenzene	ug/L (ppb)	50	95	99	81-115	4
Bromobenzene	ug/L (ppb)	50	93	96	80-113	3
1,3,5-Trimethylbenzene	ug/L (ppb)	50	97	102	83-117	5
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	105	110	79-118	5
1,2,3-Trichloropropane	ug/L (ppb)	50	96	100	74-116	4
2-Chlorotoluene	ug/L (ppb)	50	94	97	79-112	3
4-Chlorotoluene	ug/L (ppb)	50	94	98	81-113	4
tert-Butylbenzene	ug/L (ppb)	50	97	101	81-119	4
1,2,4-Trimethylbenzene	ug/L (ppb)	50	96	100	83-116	4
sec-Butylbenzene	ug/L (ppb)	50	97	102	83-116	5
p-Isopropyltoluene	ug/L (ppb)	50	98	102	82-119	4
1,3-Dichlorobenzene	ug/L (ppb)	50	92	97	83-111	5
1,4-Dichlorobenzene	ug/L (ppb)	50	92	95	82-109	3
1,2-Dichlorobenzene	ug/L (ppb)	50	92	96	83-111	4
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	124	125	62-133	1
1,2,4-Trichlorobenzene	ug/L (ppb)	50	93	95	77-117	2
Hexachlorobutadiene	ug/L (ppb)	50	89	95	74-118	7
Naphthalene	ug/L (ppb)	50	98	102	75-131	4
1,2,3-Trichlorobenzene	ug/L (ppb)	50	91	94	82-115	3

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270D

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Phenol	mg/kg (ppm)	1.7	84	85	51-119	1
Bis(2-chloroethyl) ether	mg/kg (ppm)	1.7	80	84	60-112	5
2-Chlorophenol	mg/kg (ppm)	1.7	87	89	59-114	2
1,3-Dichlorobenzene	mg/kg (ppm)	1.7	79	84	62-113	6
1,4-Dichlorobenzene	mg/kg (ppm)	1.7	78	83	61-114	6
1,2-Dichlorobenzene	mg/kg (ppm)	1.7	81	84	61-113	4
Benzyl alcohol	mg/kg (ppm)	1.7	93	96	50-119	3
Bis(2-chloroisopropyl) ether	mg/kg (ppm)	1.7	79	84	59-113	6
2-Methylphenol	mg/kg (ppm)	1.7	84	82	58-115	2
Hexachloroethane	mg/kg (ppm)	1.7	80	85	63-114	6
N-Nitroso-di-n-propylamine	mg/kg (ppm)	1.7	97	97	62-114	0
3-Methylphenol + 4-Methylphenol	mg/kg (ppm)	1.7	88	87	54-120	1
Nitrobenzene	mg/kg (ppm)	1.7	83	89	59-114	7
Isophorone	mg/kg (ppm)	1.7	93	96	61-113	3
2-Nitrophenol	mg/kg (ppm)	1.7	94	99	59-114	5
2,4-Dimethylphenol	mg/kg (ppm)	1.7	78	50 vo	54-107	44 vo
Benzoic acid	mg/kg (ppm)	2.5	142	148	43-150	4
Bis(2-chloroethoxy)methane	mg/kg (ppm)	1.7	84	91	60-114	8
2,4-Dichlorophenol	mg/kg (ppm)	1.7	92	96	57-118	4
1,2,4-Trichlorobenzene	mg/kg (ppm)	1.7	81	88	56-112	8
Hexachlorobutadiene	mg/kg (ppm)	1.7	79	85	60-116	7
4-Chloroaniline	mg/kg (ppm)	3.3	68	66	10-126	3
4-Chloro-3-methylphenol	mg/kg (ppm)	1.7	98	97	59-115	1
2-Methylnaphthalene	mg/kg (ppm)	1.7	83	86	60-115	4
Hexachlorocyclopentadiene	mg/kg (ppm)	1.7	100	103	41-107	3
2,4,6-Trichlorophenol	mg/kg (ppm)	1.7	95	97	47-119	2
2,4,5-Trichlorophenol	mg/kg (ppm)	1.7	99	99	61-121	0
2-Chloronaphthalene	mg/kg (ppm)	1.7	85	89	58-114	5
2-Nitroaniline	mg/kg (ppm)	1.7	109	108	55-119	1
Dimethyl phthalate	mg/kg (ppm)	1.7	98	97	58-116	1
2,6-Dinitrotoluene	mg/kg (ppm)	1.7	93	93	57-119	0
3-Nitroaniline	mg/kg (ppm)	3.3	90	90	10-143	0
2,4-Dinitrophenol	mg/kg (ppm)	1.7	110	99	40-122	11
Dibenzofuran	mg/kg (ppm)	1.7	89	92	56-115	3
2,4-Dinitrotoluene	mg/kg (ppm)	1.7	97	95	53-126	2
4-Nitrophenol	mg/kg (ppm)	1.7	98	96	40-124	2
Diethyl phthalate	mg/kg (ppm)	1.7	100	96	57-116	4
4-Chlorophenyl phenyl ether	mg/kg (ppm)	1.7	88	89	54-119	1
N-Nitrosodiphenylamine	mg/kg (ppm)	1.7	90	93	54-113	3
4-Nitroaniline	mg/kg (ppm)	3.3	84	85	47-109	1
4,6-Dinitro-2-methylphenol	mg/kg (ppm)	1.7	104	102	57-108	2
4-Bromophenyl phenyl ether	mg/kg (ppm)	1.7	91	96	56-116	5
Hexachlorobenzene	mg/kg (ppm)	1.7	90	93	57-115	3
Pentachlorophenol	mg/kg (ppm)	1.7	100	104	45-123	4
Carbazole	mg/kg (ppm)	1.7	88	93	57-116	6
Di-n-butyl phthalate	mg/kg (ppm)	1.7	98	108	56-118	10
Benzyl butyl phthalate	mg/kg (ppm)	1.7	102	105	56-122	3
Bis(2-ethylhexyl) phthalate	mg/kg (ppm)	1.7	105	109	56-125	4
Di-n-octyl phthalate	mg/kg (ppm)	1.7	102	108	58-120	6

Date of Report: 07/30/13
Date Received: 06/17/13
Project: Crowley RIFS 101.00205.00019, F&BI 306270

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270D

Laboratory Code: 306220-17 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
2-Methylnaphthalene	mg/kg (ppm)	1.7	<0.001	59	68	50-150	14
Benzyl butyl phthalate	mg/kg (ppm)	1.7	<0.0058	82	83	50-150	1

Date of Report: 07/30/13
Date Received: 06/17/13
Project: Crowley RIFS 101.00205.00019, F&BI 306270

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270D

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
2-Methylnaphthalene	mg/kg (ppm)	1.7	83	82	60-115	1
Benzyl butyl phthalate	mg/kg (ppm)	1.7	102	102	56-122	0

Date of Report: 07/30/13
Date Received: 06/17/13
Project: Crowley RIFS 101.00205.00019, F&BI 306270

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR PNA'S BY EPA METHOD 8270D SIM

Laboratory Code: 306270-10 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.17	0.00023	71	74	44-129	4
Acenaphthylene	mg/kg (ppm)	0.17	<0.000091	76	78	52-121	3
Acenaphthene	mg/kg (ppm)	0.17	<0.00014	75	77	51-123	3
Fluorene	mg/kg (ppm)	0.17	<0.00015	79	81	37-137	2
Phenanthrene	mg/kg (ppm)	0.17	0.00085	76	77	45-124	1
Anthracene	mg/kg (ppm)	0.17	<0.000088	78	78	32-124	0
Fluoranthene	mg/kg (ppm)	0.17	<0.00028	77	78	50-125	1
Pyrene	mg/kg (ppm)	0.17	<0.00026	84	89	41-135	6
Benz(a)anthracene	mg/kg (ppm)	0.17	0.00027	78	79	23-144	1
Chrysene	mg/kg (ppm)	0.17	0.00026	82	83	45-122	1
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	0.00020	72	77	31-144	7
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	<0.00036	70	68	45-130	3
Benzo(a)pyrene	mg/kg (ppm)	0.17	<0.00022	76	77	39-128	1
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	<0.00062	82	80	28-146	2
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	<0.00034	77	76	46-129	1
Benzo(g,h,i)perylene	mg/kg (ppm)	0.17	<0.00034	73	70	37-133	4

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.17	87	82	58-121	6
Acenaphthylene	mg/kg (ppm)	0.17	90	88	54-121	2
Acenaphthene	mg/kg (ppm)	0.17	89	87	54-123	2
Fluorene	mg/kg (ppm)	0.17	90	90	56-127	0
Phenanthrene	mg/kg (ppm)	0.17	90	90	55-122	0
Anthracene	mg/kg (ppm)	0.17	85	86	50-120	1
Fluoranthene	mg/kg (ppm)	0.17	92	95	54-129	3
Pyrene	mg/kg (ppm)	0.17	94	95	53-127	1
Benz(a)anthracene	mg/kg (ppm)	0.17	91	92	51-115	1
Chrysene	mg/kg (ppm)	0.17	93	96	55-129	3
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	88 J	90	56-123	2
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	83 J	82	54-131	1
Benzo(a)pyrene	mg/kg (ppm)	0.17	83 J	82	51-118	1
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	99 J	100	49-148	1
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	90 J	91	50-141	1
Benzo(g,h,i)perylene	mg/kg (ppm)	0.17	85 J	87	52-131	2

Date of Report: 07/30/13
Date Received: 06/17/13
Project: Crowley RIFS 101.00205.00019, F&BI 306270

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR PNA'S BY EPA METHOD 8270D SIM

Laboratory Code: 306220-06 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.17	<0.00022	66	54	44-129	20
Acenaphthylene	mg/kg (ppm)	0.17	<0.000091	72	61	52-121	17
Acenaphthene	mg/kg (ppm)	0.17	<0.00014	70	59	51-123	17
Fluorene	mg/kg (ppm)	0.17	<0.00015	74	64	37-137	14
Phenanthrene	mg/kg (ppm)	0.17	<0.00032	75	67	45-124	11
Anthracene	mg/kg (ppm)	0.17	<0.000088	73	65	32-124	12
Fluoranthene	mg/kg (ppm)	0.17	<0.00028	75	71	50-125	5
Pyrene	mg/kg (ppm)	0.17	<0.00026	80	72	41-135	11
Benz(a)anthracene	mg/kg (ppm)	0.17	<0.00018	73	68	23-144	7
Chrysene	mg/kg (ppm)	0.17	<0.00019	78	72	45-122	8
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	<0.00018	69	66	31-144	4
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	<0.00036	63	61	45-130	3
Benzo(a)pyrene	mg/kg (ppm)	0.17	<0.00022	66	64	39-128	3
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	<0.00062	75	71	28-146	5
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	<0.00034	68	62	46-129	9
Benzo(g,h,i)perylene	mg/kg (ppm)	0.17	<0.00034	64	60	37-133	6

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.17	84	74	58-121	13
Acenaphthylene	mg/kg (ppm)	0.17	85	81	54-121	5
Acenaphthene	mg/kg (ppm)	0.17	84	79	54-123	6
Fluorene	mg/kg (ppm)	0.17	86	83	56-127	4
Phenanthrene	mg/kg (ppm)	0.17	84	82	55-122	2
Anthracene	mg/kg (ppm)	0.17	76	74	50-120	3
Fluoranthene	mg/kg (ppm)	0.17	87	85	54-129	2
Pyrene	mg/kg (ppm)	0.17	87	85	53-127	2
Benz(a)anthracene	mg/kg (ppm)	0.17	84	81	51-115	4
Chrysene	mg/kg (ppm)	0.17	89	87	55-129	2
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	86	84	56-123	2
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	76	75	54-131	1
Benzo(a)pyrene	mg/kg (ppm)	0.17	72	70	51-118	3
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	94	91	49-148	3
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	86	84	50-141	2
Benzo(g,h,i)perylene	mg/kg (ppm)	0.17	82	79	52-131	4

Date of Report: 07/30/13
Date Received: 06/17/13
Project: Crowley RIFS 101.00205.00019, F&BI 306270

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS AS AROCLOR 1016/1260 BY EPA METHOD 8082A

Laboratory Code: 306270-25 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Control Limits	RPD (Limit 20)
Aroclor 1016	mg/kg (ppm)	0.8	<0.033	101	88	50-150	3
Aroclor 1260	mg/kg (ppm)	0.8	<0.033	109	105	50-150	4

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	Acceptance Criteria
Aroclor 1016	mg/kg (ppm)	0.8	83	70-130
Aroclor 1260	mg/kg (ppm)	0.8	85	70-130

Date of Report: 07/30/13
Date Received: 06/17/13
Project: Crowley RIFS 101.00205.00019, F&BI 306270

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS AS AROCLOR 1016/1260 BY EPA METHOD 8082A

Laboratory Code: 306220-11 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Control Limits	RPD (Limit 20)
Aroclor 1016	mg/kg (ppm)	0.4	<0.033	125	151 vo	50-150	19
Aroclor 1260	mg/kg (ppm)	0.4	<0.033	118	139	50-150	16

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	Acceptance Criteria
Aroclor 1016	mg/kg (ppm)	0.4	94	70-130
Aroclor 1260	mg/kg (ppm)	0.4	86	70-130

Date of Report: 07/30/13
Date Received: 06/17/13
Project: Crowley RIFS 101.00205.00019, F&BI 306270

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 306270-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Beryllium	mg/kg (ppm)	5	0.0950	104	113	67-138	8
Chromium	mg/kg (ppm)	50	5.51	92	102	57-128	10
Nickel	mg/kg (ppm)	25	3.72	90	101	69-112	12
Copper	mg/kg (ppm)	50	6.12	88	99	57-120	12
Zinc	mg/kg (ppm)	50	14.2	89 b	102 b	55-129	14 b
Arsenic	mg/kg (ppm)	10	1.64	96	109	70-118	13
Selenium	mg/kg (ppm)	5	<0.912	88	99	64-117	12
Silver	mg/kg (ppm)	10	<0.0784	98	106	73-122	8
Cadmium	mg/kg (ppm)	10	<0.204	100	109	83-116	9
Antimony	mg/kg (ppm)	20	0.253	84	91	54-116	8
Barium	mg/kg (ppm)	50	16.2	98 b	111 b	60-141	12 b
Thallium	mg/kg (ppm)	5	0.0660	96	105	68-121	9
Lead	mg/kg (ppm)	50	2.97	100	110	59-148	10

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Beryllium	mg/kg (ppm)	5	110	69-146
Chromium	mg/kg (ppm)	50	103	78-121
Nickel	mg/kg (ppm)	25	105	82-122
Copper	mg/kg (ppm)	50	106	82-119
Zinc	mg/kg (ppm)	50	104	81-120
Arsenic	mg/kg (ppm)	10	110	83-113
Selenium	mg/kg (ppm)	5	107	84-115
Silver	mg/kg (ppm)	10	107	81-116
Cadmium	mg/kg (ppm)	10	108	54-114
Antimony	mg/kg (ppm)	20	106	69-114
Barium	mg/kg (ppm)	50	106	85-116
Thallium	mg/kg (ppm)	5	102	77-123
Lead	mg/kg (ppm)	50	107	80-120

Date of Report: 07/30/13
Date Received: 06/17/13
Project: Crowley RIFS 101.00205.00019, F&BI 306270

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Laboratory Code: 306270-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Mercury	mg/kg (ppm)	0.125	0.043	92	94	62-140	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Mercury	mg/kg (ppm)	0.125	92	63-131

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

July 24, 2013

Michele Costales Poquiz
Friedman & Bruya
3012 16th Ave W
Seattle, WA 98119

RE: Project: 306270
ARI Job No.: WX05

Dear Michele:

Please find enclosed the Chain-of-Custody record (COC), sample receipt documentation, and the final data for the samples from the project referenced above. Analytical Resources, Inc. (ARI) accepted one soil sample on July 10, 2013, under ARI job WX05. For further details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

The sample was analyzed for hexavalent chromium, as requested on the COC.

Based on statistical data, the hexavalent chromium reporting limit was raised from 0.1 mg/kg to 0.4 mg/kg.

There were no anomalies associated with the analyses of these samples.

An electronic copy of this report and all associated raw data will be kept on file at ARI. Should you have any questions or concerns, please feel free to call me at your convenience.

Respectfully,
ANALYTICAL RESOURCES, INC.

Cheronne Oreiro
Project Manager
(206) 695-6214
cheronneo@arilabs.com
www.arilabs.com

cc: eFile WX05

Enclosures

SAMPLE CHAIN OF CUSTODY

Page # 1 of 1

Send Report To Michele Costales Poquiz

Company Friedman & Bruya, Inc.

Address 3012 16th Ave. W.

City, State, ZIP Seattle, WA 98119

Phone # (206) 285-8282 Fax # (206) 283-5044

Email Address mpoquiz@friedmanandbruya.com

SUBCONTRACTOR
Analytical Resources, Inc. (ARI)

PROJECT NAME/NO.: 306270

PO #: C-447

REMARKS

Please e-mail results

ELECTRONIC DATA REQUESTED (EIM)

TURNAROUND TIME
- [x] Standard Turnaround
- [ ] RUSH
Rush charges authorized by:

SAMPLE DISPOSAL
- [x] Dispose after 30 days
- [ ] Return samples
- [ ] Will call with instructions

Samples Received at ____ °C

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED: TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Hexavalent Cr by 7196A	Total Organic Carbon by 9060M				Notes
EB-38-5.0		6/17/13	1505	soil								X					Need PQL = 0.10 ppm (not 0.1 ppm)
																	Short hold time
																	If insufficient
																	sample volume, please
																	contact Michele @ FBI

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: Michele Costales Poquiz	Michele Costales Poquiz	F&BI	7/10/13	11:15 AM
Received by:	A. Volgardsen	ARI	7/11/13	1340
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FORMS\COC\COC SLRC.DOC

WX05 : 00002

Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Friedman & Bruya

Project Name: _____

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: Postal Express

Assigned ARI Job No: WX05

Tracking No: 4436 4764 NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	(NO)
Were custody papers included with the cooler?	(YES)	NO
Were custody papers properly filled out (ink, signed, etc.)	(YES)	NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)..... 9.8

If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 90877982

Cooler Accepted by: AV Date: 7/10/13 Time: 1340

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?		YES	(NO)
What kind of packing material was used? ... Bubble Wrap (Wet Ice) Gel Packs (Baggies) Foam Block Paper Other:			
Was sufficient ice used (if appropriate)?	NA	(YES)	NO
Were all bottles sealed in individual plastic bags?		(YES)	NO
Did all bottles arrive in good condition (unbroken)?		(YES)	NO
Were all bottle labels complete and legible?		(YES)	NO
Did the number of containers listed on COC match with the number of containers received?		(YES)	NO
Did all bottle labels and tags agree with custody papers?		(YES)	NO
Were all bottles used correct for the requested analyses?		(YES)	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)...	NA	YES	NO
Were all VOC vials free of air bubbles?	(NA)	YES	NO
Was sufficient amount of sample sent in each bottle?		(YES)	NO
Date VOC Trip Blank was made at ARI	(NA)		

Was Sample Split by ARI : (NA) YES Date/Time: _____ Equipment: _____ Split by: _____

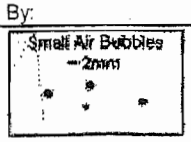
Samples Logged by: TS Date: 7/10/13 Time: 1350

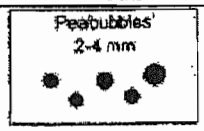
*** Notify Project Manager of discrepancies or concerns ***

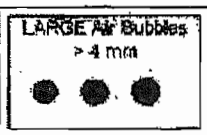
Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:







Small → "sm"
Peabubbles → "pb"
Large → "lg"
Headspace → "hs"

Sample ID Cross Reference Report

ANALYTICAL RESOURCES INCORPORATED

ARI Job No: WX05
Client: Friedman & Bruya
Project Event: 306270
Project Name: N/A

	Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1.	EB-38-5.0	WX05A	13-14508	Soil	06/17/13 15:05	07/10/13 13:40

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
Hexavalent Chromium by Method SW7196A

Data Release Authorized:
Reported: 07/24/13
Date Received: 07/10/13
Page 1 of 1

QC Report No: WX05-Friedman & Bruya
Project:
306270

Client/ ARI ID	Date Sampled	Matrix	Analysis Date	MDL	RL	Result
EB-38-5.0 WX05A 13-14508	06/17/13	Soil	07/10/13	0.106	0.422 U <	0.422

Reported in mg/kg

RL-Analytical reporting limit
U-Undetected at reported detection limit

INORGANICS ANALYSIS DATA SHEET
Total Solids by Method SM2540B

ANALYTICAL RESOURCES INCORPORATED

Data Release Authorized:
Reported: 07/24/13
Date Received: 07/10/13
Page 1 of 1

QC Report No: WX05-Friedman & Bruya
Project: 306270

Client/ ARI ID	Date Sampled	Matrix	Analysis Date	MDL	RL	Result
EB-38-5.0 WX05A 13-14508	06/17/13	Soil	07/11/13	---	0.01	94.01

Reported in Percent

RL-Analytical reporting limit
U-Undetected at reported detection limit

STANDARD REFERENCE RESULTS-CONVENTIONALS
WX05-Friedman & Bruya

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized:
Reported: 07/16/13

Project: NA
Event: 306270
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Date	Units	SRM	True Value	Recovery
Soluble Hexavalent Chromium	07/10/13	mg/kg	19.2	20.0	96.0%
Insoluble Hexavalent Chromiu	07/10/13	mg/kg	470	506	92.9%
Soil Hexavalent Chrome					

METHOD BLANK RESULTS-CONVENTIONALS
WX05-Friedman & Bruya

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized:
Reported: 07/16/13

Project: NA
Event: 306270
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	Blank	QC ID
Hexavalent Chromium	07/10/13	mg/kg	< 0.400 U	PREP
Total Solids	07/11/13	Percent	< 0.01 U	ICB

U
7-12-13

HEXAVALENT CHROMIUM (Solid Samples 3060 Extraction)	Digested	Analyzed	
Diphenyl carbazide finish (SW-846 7196A)	Date / Time 7/10/13 17:05	Date / Time: 7/11/13 14:46	
	Analyst: CC	Analyst: CC	
REAGENTS ID	**EQUIPMENT**	*pH Meter ID:* ACCUMET XL60	
Sulfuric acid: 10058C		*Electrode ID:* SN9216026P 19	
Diphenylcarbazide: 10045C		*Balance ID:* 1123230597	
		Spec ID: SPEC #2	

CALIBRATION

Curve Standard

ARI ID:	**00136-03**	*stock*	0.0709	*g K2Cr2O7 to*	500	*mL pH2 =*	50.1	*mg/L Cr+6*
Date Prepared:	7/11/2013	*Intermediate*	5	*mL Stock to*	50	*mL pH2 =*	5.01	*mg/L Cr+6*

Standard Curve Data *final volume of prepared standards =* **50** *mL*

mL intermediate	Conc (mg/L)	Absorbance @ 540 nm 1	2	Avg Blk Corr Abs		
0.0	0.00	0.000		0.000	= blank abs	
0.1	0.01	0.008		0.008	E 0.008	#VALUE!
0.5	0.05	0.041		0.041	0.050	99%
1.0	0.10	0.081		0.081	0.101	100%
5.0	0.50	0.399		0.399	0.506	101%
10.0	1.00	0.786		0.786	1.000	100%

Regression Data
Conc = (abs-intercept)/slope

intercept =	0.0021
slope =	0.7839
r =	1.000
Comment:	Calibration OK!
maxabs =	0.786

Calibration Verification Standard

Source	**ERA # 0504093**			*Stock Conc*	1,000	*mg/L Cr+6*
intermediate		*ml stock to*		*mL DI =*		*mg/L Cr+6*
CVS =	0.050	*ml stock to*	200	*mL DI =*	0.25	***mg/L Cr+6***

Prep Check Standard ***(Prepare blanks and standards in alkaline-carbonate solution and digest along with samples)***

Soluble Chk	*source =*	***ERA # 0504093***		*Stock Conc*	1,000	*mg/L Cr+6 as K2Cr2O7*
DQL Intermediate	*Dilute*	0.1	*mL stock to*	10	10	*mg/L Cr+6 as K2Cr2O8*
DQL Standard	*Dilute*	0.40	*mL Int to*	100	0.04	*mg/L Cr+6 as K2Cr2O8*
Insoluble Chk	*source =*	***Fisher 053150***			16.088%	*percent Cr+6 as PbCrO4*

SAMPLE DATA

mg/L = ((Abs - Blkabs -Bkgabs) - intercept) / slope

SAMPLE ID	% Solids	weight (g)	ext vol (L)	pH adjusted dilution	Spectrophotometric Data dilution	ABS @ 540nm	Background	Extract mg/L	Conc (mg/L)	NOTES
	sample pH adjusted dilution: 40 mL adjusted to 50				dilution	ABS @ 540nm	Background	Extract mg/L	mg/kg dry wt	
ICB					1	0.000		-0.003	< 0.01	Blk OK
ICV	**Extraction Data**				1	0.199		0.251	0.251	100.48%
Prep Blk	100.00%	2.504	0.100	1.250	1	0.001		-0.002	< 0.4	Blk OK
Prep Chk Sol	100.00%	2.506	0.100	1.250	1	0.303		0.480	19.147	96%
	Sol Spk at	0.05	*mL Solstk =*	*0.05*	*mg Cr+6*			19.95	*mg/kg*	
Prep Chk Insol	100.00%	2.510	0.100	1.250	20	0.372		0.590	470	92.8%
	Insol Spk at	7.9	*mg PbCrO4 =*	*1.271*	*mg Cr+6*			506	*mg/kg*	
WX04 A1	91.12%	2.507	0.100	1.250	1	0.001	-0.002	-0.002	< 0.44	
WX04 A1 dup	91.12%	2.512	0.100	1.250	1	0.002	-0.002	0.000	< 0.44	RPD NA
soluble ms	91.12%	2.523	0.100	1.250	1	0.017	-0.002	0.024	1.0	% Rec =4.8
	Sol Spk at	0.05	*mL Solstk =*	*0.05*	*mg Cr+6*			21.7	*mg/kg*	
insoluble ms	91.12%	2.533	0.100	1.250	20	0.232	-0.002	0.367	317.7	% Rec =56.3
	Insol Spk at	8.1	*mg PbCrO4 =*	*1.303*	*mg Cr+6*			565	*mg/kg*	
WX05 A1	94.01%	2.524	0.100	1.250	1	0.014	0.007	0.008	< 0.42	
CCB					1	0.000		-0.003	< 0.01	Blk OK
CCV					1	0.199		0.251	0.251	100.48%

Format for Post-digestion spikes. Spike at 40 mg/kg or 2 times the sample concentration, whichever is greater

WX04 A1	91.12%	2.507	0.100	1.250	1	0.001	-0.002	0.001	< 0.44	Recovery
WX04 A1 ver	91.12%	2.507	0.100	1.000	1	0.660	-0.002	0.842	37	84%
desired spike =	0.91	*mg/L by diluting*		0.20	*mL stock to*	10	*mL extract =*	1.00	43.9	interference
CCB					1	-0.002		-0.005	< 0.01	Blk OK
CCV					1	0.198		0.250	0.250	99.97%

306270

SAMPLE CHAIN OF CUSTODY

KJ 06-17-13

VS3/BI4/M1

Page # 1 of 3

Send Report To Mike Staton

Company SLR International

Address 22118 26th Ave SE, G202

City, State, ZIP Bothell, WA 98021

Phone # 425-402-8800 Fax # 425-402-8788

SAMPLERS (signature)

PROJECT NAME/NO.: Cowlitz RFS 101.00205.00019

PO#: 101.00205.0001

REMARKS: NWTPH-Dx after silica gel cleanup, HOLD for QC

email COC to mstaton@slrconsulting.com

TURNAROUND TIME
- ☑ Standard (2 Weeks)
- ☐ RUSH
- Rush charges authorized by

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

✓=added per Mike Staton per 7/9/13
Ⓞ=added per Mike Staton per 7/17/13
Ⓧ=added per Mike Staton per 7/22/13
✱=added per per 7/24/13

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260C	SVOCs by 8270D	HFS	PAHs by 8270D SIM	PCBs 8082A	Manganese (dissolved) by 200.8	As by 6010B	Cr(VI) by 7196A		Notes
EMW-25-2.5	01 A-J	6/17/13	0840	SOIL	10	X			X	X		X	X	X	X			
EMW-25-5.0	02		0850			X			X	X		X	X	X	X			
EMW-25-7.5	03		0900															HOLD
EMW-25-10.0	04		0913			X			X	X		X	X	X	X			
EMW-25-12.5	05		0920															HOLD
EB-17-1.0	06 A-F		1045		6	X			X	X		X	X	X	X			
EB-17-2.5	07		1050															HOLD
EB-17-5.75	08		1105			X			X	X		X	X	X	X			
EB-17-7.5	09		1115															HOLD
EB-17-10.0	10		1125			X			X	X		X	X	X	X			

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Amanda Mengis	SLR	6/17/13	1645
Received by:	DO KO	F+BI	11	11
Relinquished by:				
Received by:		Samples received at 6 °C		

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

306270

SAMPLE CHAIN OF CUSTODY

KJ 06-17-13

VS3/ BTX

Page # 2 of 3

Send Report To Mike Staton

Company SLR International Corp

Address 22118 20th Ave SE, G202

City, State, ZIP Bothell, WA 98021

Phone # 425-402-8800 Fax # 425-402-8488

SAMPLERS (signature)

PROJECT NAME/NO.: Crowley RIFS 501.00205.00019

PO#: 101.00205.00019

REMARKS: NWTPH-Dx after silica gel cleanup; HOLD after QA/QC email COC to mstaton@slrconsulting.com

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☐ RUSH
- Rush charges authorized by

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260C	SVOCs by 8270D	HFS	NWTPH-Dx extended silica gel cleanup	PCBs by 8082A	Pesticides by 8081B	Hg by 7471B	Arsenic by 6020A (Note 1)		Notes
EB-17-12.5	11 A-F	6/17/13	1130	Soil	6					⊗			*					HOLD
EB-14-1.0	12		1210			X			X	X		X	X	X	X			
EB-14-2.5	13		1215															HOLD
EB-14-5.0	14		1225			X			X	X		X	X	X	X			
EB-14-7.50	15		1235															HOLD
EB-14-10.0	16		1240			X			X	X		X	X	X	X			
EB-14-12.5	17		1245									✓	*					HOLD
EB-24-1.0	18		1315			X			X	X		X	X	X	X			
EB-24-2.5	19 A-J		1325		10	X												HOLD
EB-24-5.0	20		1335		10	X	X		X	X		X	X	X	X			

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Amanda Meyer	SLR	6/17/13	1645
Received by:	DdVa	F+B	11	11
Relinquished by:				
Received by:		Samples received at 6 °C		

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

306270

SAMPLE CHAIN OF CUSTODY

KJ 06-17-13

VS3/BI4/N

Page # 3 of 3

Send Report To Mike Staton

Company SLR Consulting Corp

Address 22118 20th Ave SE, G202

City, State, ZIP Bothell, WA 98021

Phone #425-402-5800 Fax #425-402-5788

SAMPLERS (signature)

PROJECT NAME/NO.: Crowley RIFS 151.00205.00019

PO#: 151.00205.0019

REMARKS: New TPH-Dx after silica gel cleanup, HOLD for Conf email COC to mstaton@slrconsulting.com

TURNAROUND TIME
- ☒ Standard (2 Weeks)
- ☐ RUSH
- Rush charges authorized by

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260C	SVOCs by 8270A	HFS	PAHs by 8270D SIM	PCBs by 8082A	Phenols by 8041A, Methylphenols by 8270D SIM	Pesticides by 8081B	Cr VI by 7196A		Notes
EB-38-1.0	21 A-F	6/17/13	1450	SOIL	6	X			X	X		X	X	X	X			
EB-38-2.5	22		1455															HOLD
EB-38-5.0	23		1505			X			X	X		X	X	X	X	✓		
EB-38-7.5	24		1515															HOLD
EB-38-10.0	25		1520			X			X	X		X	X	X	X			
EB-38-12.5	26		1525									⊘		✓				HOLD
TB-061713	27 A-B		1435	WATER	2				X									
EB-24-7.5	28 A-F	6/17/13	1345	SOIL	10													HOLD
EB-24-10.0	29 A-F	6/17/13	1355	SOIL	6	X			X	X		X	X	X	X			
EB-27-12.5	30 A-F	6/17/13	1400	SOIL	6					⊗		⊘						HOLD

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Amanda Mengnier	SLR	6/17/13	1645
Received by:		DAVID	FRB	"	"
Relinquished by:					
Received by:			Samples received at 6 °C		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Kurt Johnson, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

July 31, 2013

Mike Staton
SLR International Corp.
22118 20th Ave. SE., G-202
Bothell, WA 98021

Dear Mr. Staton:

Included are the results from the testing of material submitted on June 19, 2013 from the Crowley 8th Ave Terminals, Inc. 101.00205.00030, F&BI 306316 project. There are 79 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michele Costales Poquiz

Michele Costales Poquiz
Chemist

Enclosures
SLR0731R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on June 19, 2013 by Friedman & Bruya, Inc. from the SLR International Corp. Crowley 8th Ave Terminals, Inc. Crowley 8th Ave Terminals, Inc. 101.00205.00030, F&BI 306316 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SLR International Corp.
306316-01	EMW-10D-1.0'
306316-02	EMW-10D-2.5'
306316-03	EMW-10D-5.0'
306316-04	EMW-10D-7.5'
306316-05	EMW-10D-10.0'
306316-06	EMW-10D-12.5'
306316-07	EMW-10D-15.0'
306316-08	EMW-10D-20.0'
306316-09	EMW-10D-25.0'
306316-10	EMW-10D-30.0'
306316-11	EMW-10D-35.0'
306316-12	EMW-10D-40.0'
306316-13	EMW-10D-50.0'
306316-14	EB-16-2.5'
306316-15	EB-16-5.0'
306316-16	EB-16-7.5'
306316-17	EB-16-10.0'
306316-18	EB-16-12.5'
306316-19	EB-16-15.0'
306316-20	EB-16-20.0'
306316-21	EB-16-25.0'
306316-22	EB-16-30.0'
306316-23	EB-16-35.0'
306316-24	EB-16-40.0'
306316-25	EB-16-44.0
306316-26	EMW-10S-5.0'
306316-27	Trip Blank

Total Petroleum Hydrocarbons as Diesel and Motor Oil by Method NWTPH-Dx with Silica Gel

All quality control requirements were acceptable.

Volatile Compounds by EPA Method 8260C

The presence of methylene chloride in the samples EMW-10D-5.0', EMW-10D-15.0', and the method blank is likely due to laboratory contamination. The results have been flagged accordingly.

The trip blank sample was received with incorrect preservation for vinyl chloride. The result should be considered an estimate.

The percent recovery for the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) exceeded acceptance criteria for several compounds. In

addition, the relative percent difference (RPD) for the matrix spike (MS) and matrix spike duplicate (MSD) exceeded acceptance criteria for 1,1-dichloroethene. The results have been flagged accordingly.

Semivolatile Organic Compounds by EPA Method 8270D

The samples EMW-10D-1.0', EMW-10D-5.0', EMW-10D-35.0', EB-16-2.5', and EMW-10S-5.0' were diluted due to matrix interferences. The reporting limits have been raised accordingly.

The presence of bis(2-ethylhexyl) phthalate in the sample EB-16-10.0' is likely due to laboratory contamination. The results have been flagged accordingly.

The calibration result for 2,4-dinitrophenol and 4,6-dinitro-2-methylphenol fell outside of acceptance criteria for the method blank. The values reported are estimates.

The percent recovery for the MS and MSD exceeded acceptance criteria for several compounds. In addition, the relative percent difference RPD for the LCS/LCSD and MS/MSD exceeded acceptance criteria for several compounds. The results have been flagged accordingly.

Semivolatile Organic Compounds by EPA Method 8270D SIM

The samples EMW-10D-1.0', EMW-10D-5.0', EMW-10D-10.0', EMW-10D-35.0', EMW-10D-50.0', EB-16-2.5', and EMW-10S-5.0' were diluted due to matrix interferences. The reporting limits have been raised accordingly.

Surrogates were inadvertently not added to the sample EB-16-15.0'. Re-extraction of the sample confirmed the PNA results of the original analysis. The results for the original analysis have been provided.

The percent recovery for the MS and the RPD for the MS/MSD fell outside of acceptance criteria for several compounds. Based on review of the analytical data, the high variability is due to the sample matrix.

Polychlorinated Biphenyls as Aroclor 1016/1260 by EPA Method 8082A

The samples EMW-10D-5.0', EMW-10D-10.0', EMW-10D-15.0', EMW-10D-35.0', EB-16-2.5', EB-16-10.0', and EMW-10S-5.0' were diluted due to matrix interferences. The reporting limits have been raised accordingly.

Total Metals by EPA Method 200.8

All quality control requirements were acceptable.

Total Mercury by EPA Method 1631E

All quality control requirements were acceptable.

Date of Report: 07/31/13
Date Received: 06/19/13
Project: Crowley 8th Ave Terminals, Inc. 101.00205.00030, F&BI 306316
Date Extracted: 06/28/13 and 07/22/13
Date Analyzed: 07/03/13, 07/04/13, 07/05/13, and 07/24/13

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx
Sample Extracts Passed Through a Silica Gel Column Prior to Analysis
Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 53-144)
EMW-10D-1.0' 306316-01	<12	48 x	90
EMW-10D-5.0' 306316-03 1/10	18,000 x	14,000 x	ip
EMW-10D-10.0' 306316-05	<12	<21	132
EMW-10D-15.0' 306316-07	1,200 x	650 x	57
EMW-10D-35.0' 306316-11 1/10	11,000 x	10,000 x	ip
EMW-10D-50.0' 306316-13	<12	<21	109
EB-16-2.5' 306316-14 1/10	1,100 x	2,400 x	94
EB-16-5.0' 306316-15	<12	<21	105
EB-16-10.0' 306316-17	<12	<21	116
EMW-10S-5.0' 306316-26 1/10	23,000 x	19,000 x	ip
Method Blank 03-1278 MB	<12	<21	100
Method Blank	<12	<21	112

03-1432 MB

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-10D-1.0'	Client:	SLR International Corp.
Date Received:	06/19/13	Project:	Crowley 101.00205.00030
Date Extracted:	06/25/13	Lab ID:	306316-01
Date Analyzed:	06/26/13	Data File:	062607.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-10D-5.0'	Client:	SLR International Corp.
Date Received:	06/19/13	Project:	Crowley 101.00205.00030
Date Extracted:	06/25/13	Lab ID:	306316-03
Date Analyzed:	07/03/13	Data File:	070305.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	109	50	150
Toluene-d8	96	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	0.49 lc fb	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	0.19
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	0.33
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	0.076
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	21 ve
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-10D-5.0'	Client:	SLR International Corp.
Date Received:	06/19/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/03/13	Lab ID:	306316-03 1/10
Date Analyzed:	07/03/13	Data File:	070310.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	103	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.2	1,3-Dichloropropane	<0.2
Chloromethane	<0.26	Tetrachloroethene	<0.26
Vinyl chloride	<0.16	Dibromochloromethane	<0.26
Bromomethane	<0.34	1,2-Dibromoethane (EDB)	<0.3
Chloroethane	<0.24	Chlorobenzene	<0.14
Trichlorofluoromethane	<0.2	Ethylbenzene	<0.13
Acetone	<2	1,1,1,2-Tetrachloroethane	<0.28
1,1-Dichloroethene	<0.26	m,p-Xylene	<0.3
Methylene chloride	<0.54	o-Xylene	<0.34
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.19
1,1-Dichloroethane	<0.17	Bromoform	<0.34
2,2-Dichloropropane	<0.26	n-Propylbenzene	<0.17
cis-1,2-Dichloroethene	<0.22	Bromobenzene	<0.12
Chloroform	<0.17	1,3,5-Trimethylbenzene	0.17
2-Butanone (MEK)	<1.4	1,1,2,2-Tetrachloroethane	<0.36
1,2-Dichloroethane (EDC)	<0.16	1,2,3-Trichloropropane	<0.22
1,1,1-Trichloroethane	<0.22	2-Chlorotoluene	<0.16
1,1-Dichloropropene	<0.24	4-Chlorotoluene	<0.19
Carbon tetrachloride	<0.3	tert-Butylbenzene	<0.22
Benzene	<0.14	1,2,4-Trimethylbenzene	0.29
Trichloroethene	<0.34	sec-Butylbenzene	<0.15
1,2-Dichloropropane	<0.34	p-Isopropyltoluene	<0.12
Bromodichloromethane	<0.24	1,3-Dichlorobenzene	<0.2
Dibromomethane	<0.22	1,4-Dichlorobenzene	<0.32
4-Methyl-2-pentanone	<1.4	1,2-Dichlorobenzene	<0.16
cis-1,3-Dichloropropene	<0.22	1,2-Dibromo-3-chloropropane	<0.8
Toluene	<0.17	1,2,4-Trichlorobenzene	<0.36
trans-1,3-Dichloropropene	<0.15	Hexachlorobutadiene	<0.4
1,1,2-Trichloroethane	<0.14	Naphthalene	21
2-Hexanone	<0.96	1,2,3-Trichlorobenzene	<0.19

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-10D-10.0'	Client:	SLR International Corp.
Date Received:	06/19/13	Project:	Crowley 101.00205.00030
Date Extracted:	06/25/13	Lab ID:	306316-05
Date Analyzed:	06/26/13	Data File:	062608.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

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ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-10D-15.0'	Client:	SLR International Corp.
Date Received:	06/19/13	Project:	Crowley 101.00205.00030
Date Extracted:	06/25/13	Lab ID:	306316-07
Date Analyzed:	06/26/13	Data File:	062609.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	50	150
Toluene-d8	102	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	0.15 lc fb	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-10D-35.0'	Client:	SLR International Corp.
Date Received:	06/19/13	Project:	Crowley 101.00205.00030
Date Extracted:	06/25/13	Lab ID:	306316-11
Date Analyzed:	06/26/13	Data File:	062610.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	50	150
Toluene-d8	97	50	150
4-Bromofluorobenzene	96	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	0.021
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	0.91
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EB-16-2.5'	Client:	SLR International Corp.
Date Received:	06/19/13	Project:	Crowley 101.00205.00030
Date Extracted:	06/25/13	Lab ID:	306316-14
Date Analyzed:	06/26/13	Data File:	062618.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	96	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EB-16-5.0'	Client:	SLR International Corp.
Date Received:	06/19/13	Project:	Crowley 101.00205.00030
Date Extracted:	06/25/13	Lab ID:	306316-15
Date Analyzed:	06/26/13	Data File:	062619.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	50	150
Toluene-d8	102	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EB-16-10.0'	Client:	SLR International Corp.
Date Received:	06/19/13	Project:	Crowley 101.00205.00030
Date Extracted:	06/25/13	Lab ID:	306316-17
Date Analyzed:	06/26/13	Data File:	062620.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	102	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-10S-5.0'	Client:	SLR International Corp.
Date Received:	06/19/13	Project:	Crowley 101.00205.00030
Date Extracted:	06/25/13	Lab ID:	306316-26
Date Analyzed:	07/03/13	Data File:	070306.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	107	50	150
Toluene-d8	95	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	<0.054	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	0.13
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	0.21
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	0.048
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	10 ve
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-10S-5.0'	Client:	SLR International Corp.
Date Received:	06/19/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/03/13	Lab ID:	306316-26 1/10
Date Analyzed:	06/26/13	Data File:	062616.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.2	1,3-Dichloropropane	<0.2
Chloromethane	<0.26	Tetrachloroethene	<0.26
Vinyl chloride	<0.16	Dibromochloromethane	<0.26
Bromomethane	<0.34	1,2-Dibromoethane (EDB)	<0.3
Chloroethane	<0.24	Chlorobenzene	<0.14
Trichlorofluoromethane	<0.2	Ethylbenzene	<0.13
Acetone	<2	1,1,1,2-Tetrachloroethane	<0.28
1,1-Dichloroethene	<0.26	m,p-Xylene	<0.3
Methylene chloride	<0.54	o-Xylene	<0.34
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.19
1,1-Dichloroethane	<0.17	Bromoform	<0.34
2,2-Dichloropropane	<0.26	n-Propylbenzene	<0.17
cis-1,2-Dichloroethene	<0.22	Bromobenzene	<0.12
Chloroform	<0.17	1,3,5-Trimethylbenzene	0.11
2-Butanone (MEK)	<1.4	1,1,2,2-Tetrachloroethane	<0.36
1,2-Dichloroethane (EDC)	<0.16	1,2,3-Trichloropropane	<0.22
1,1,1-Trichloroethane	<0.22	2-Chlorotoluene	<0.16
1,1-Dichloropropene	<0.24	4-Chlorotoluene	<0.19
Carbon tetrachloride	<0.3	tert-Butylbenzene	<0.22
Benzene	<0.14	1,2,4-Trimethylbenzene	0.19
Trichloroethene	<0.34	sec-Butylbenzene	<0.15
1,2-Dichloropropane	<0.34	p-Isopropyltoluene	<0.12
Bromodichloromethane	<0.24	1,3-Dichlorobenzene	<0.2
Dibromomethane	<0.22	1,4-Dichlorobenzene	<0.32
4-Methyl-2-pentanone	<1.4	1,2-Dichlorobenzene	<0.16
cis-1,3-Dichloropropene	<0.22	1,2-Dibromo-3-chloropropane	<0.8
Toluene	<0.17	1,2,4-Trichlorobenzene	<0.36
trans-1,3-Dichloropropene	<0.15	Hexachlorobutadiene	<0.4
1,1,2-Trichloroethane	<0.14	Naphthalene	11
2-Hexanone	<0.96	1,2,3-Trichlorobenzene	<0.19

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley 101.00205.00030
Date Extracted:	06/25/13	Lab ID:	03-1225 mb
Date Analyzed:	06/25/13	Data File:	062511.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.02	1,3-Dichloropropane	<0.02
Chloromethane	<0.026	Tetrachloroethene	<0.026
Vinyl chloride	<0.016	Dibromochloromethane	<0.026
Bromomethane	<0.034	1,2-Dibromoethane (EDB)	<0.03
Chloroethane	<0.024	Chlorobenzene	<0.014
Trichlorofluoromethane	<0.02	Ethylbenzene	<0.013
Acetone	<0.2	1,1,1,2-Tetrachloroethane	<0.028
1,1-Dichloroethene	<0.026	m,p-Xylene	<0.03
Methylene chloride	0.058 lc	o-Xylene	<0.034
Methyl t-butyl ether (MTBE)	<0.013	Styrene	<0.022
trans-1,2-Dichloroethene	<0.024	Isopropylbenzene	<0.019
1,1-Dichloroethane	<0.017	Bromoform	<0.034
2,2-Dichloropropane	<0.026	n-Propylbenzene	<0.017
cis-1,2-Dichloroethene	<0.022	Bromobenzene	<0.012
Chloroform	<0.017	1,3,5-Trimethylbenzene	<0.011
2-Butanone (MEK)	<0.14	1,1,2,2-Tetrachloroethane	<0.036
1,2-Dichloroethane (EDC)	<0.016	1,2,3-Trichloropropane	<0.022
1,1,1-Trichloroethane	<0.022	2-Chlorotoluene	<0.016
1,1-Dichloropropene	<0.024	4-Chlorotoluene	<0.019
Carbon tetrachloride	<0.03	tert-Butylbenzene	<0.022
Benzene	<0.014	1,2,4-Trimethylbenzene	<0.016
Trichloroethene	<0.034	sec-Butylbenzene	<0.015
1,2-Dichloropropane	<0.034	p-Isopropyltoluene	<0.012
Bromodichloromethane	<0.024	1,3-Dichlorobenzene	<0.02
Dibromomethane	<0.022	1,4-Dichlorobenzene	<0.032
4-Methyl-2-pentanone	<0.14	1,2-Dichlorobenzene	<0.016
cis-1,3-Dichloropropene	<0.022	1,2-Dibromo-3-chloropropane	<0.08
Toluene	<0.017	1,2,4-Trichlorobenzene	<0.036
trans-1,3-Dichloropropene	<0.015	Hexachlorobutadiene	<0.04
1,1,2-Trichloroethane	<0.014	Naphthalene	<0.024
2-Hexanone	<0.096	1,2,3-Trichlorobenzene	<0.019

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Trip Blank	Client:	SLR International Corp.
Date Received:	06/19/13	Project:	Crowley 101.00205.00030
Date Extracted:	06/25/13	Lab ID:	306316-27
Date Analyzed:	06/25/13	Data File:	062519.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	102	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16 j	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13 pr j	Dibromochloromethane	<0.24
Bromomethane	<0.2 j	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18 j	Chlorobenzene	<0.1 j
Trichlorofluoromethane	<0.17 j	Ethylbenzene	<0.16 j
Acetone	2.7 lc	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19 j	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13 j	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15 j
1,1-Dichloroethane	<0.18 j	Bromoform	<0.22
2,2-Dichloropropane	0.47	n-Propylbenzene	<0.14 j
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18 j
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18 j
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11 j	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13 j
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16 j
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15 j
Benzene	<0.13 j	1,2,4-Trimethylbenzene	<0.11 j
Trichloroethene	<0.17 j	sec-Butylbenzene	<0.12 j
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15 j
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15 j
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13 j
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13 j	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38 jl

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley 101.00205.00030
Date Extracted:	06/25/13	Lab ID:	03-1244 mb
Date Analyzed:	06/25/13	Data File:	062510.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16 j	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13 j	Dibromochloromethane	<0.24
Bromomethane	<0.2 j	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18 j	Chlorobenzene	<0.1 j
Trichlorofluoromethane	<0.17 j	Ethylbenzene	<0.16 j
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19 j	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13 j	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15 j
1,1-Dichloroethane	<0.18 j	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14 j
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18 j
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18 j
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11 j	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13 j
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16 j
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15 j
Benzene	<0.13 j	1,2,4-Trimethylbenzene	<0.11 j
Trichloroethene	<0.17 j	sec-Butylbenzene	<0.12 j
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15 j
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15 j
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13 j
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13 j	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38 jl

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-10D-1.0'	Client:	SLR International Corp.
Date Received:	06/19/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/01/13	Lab ID:	306316-01 1/10
Date Analyzed:	07/10/13	Data File:	071011.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	75	56	115
Phenol-d6	75	54	113
Nitrobenzene-d5	79	31	164
2-Fluorobiphenyl	86	47	133
2,4,6-Tribromophenol	83	35	141
Terphenyl-d14	107	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.054	2,4,6-Trichlorophenol	<0.08
Bis(2-chloroethyl) ether	<0.016	2,4,5-Trichlorophenol	<0.096
2-Chlorophenol	<0.062	2-Chloronaphthalene	<0.014
1,3-Dichlorobenzene	<0.026	2-Nitroaniline	<0.026
1,4-Dichlorobenzene	<0.024	Dimethyl phthalate	<0.012
1,2-Dichlorobenzene	<0.04	2,6-Dinitrotoluene	<0.018
Benzyl alcohol	<0.05	3-Nitroaniline	<0.17
Bis(2-chloroisopropyl) ether	<0.016	2,4-Dinitrophenol	<0.14
2-Methylphenol	<0.064	Dibenzofuran	<0.01
Hexachloroethane	<0.034	2,4-Dinitrotoluene	<0.016
N-Nitroso-di-n-propylamine	<0.03	4-Nitrophenol	<0.18
3-Methylphenol + 4-Methylphenol	<0.14	Diethyl phthalate	<0.04
Nitrobenzene	<0.026	4-Chlorophenyl phenyl ether	<0.016
Isophorone	<0.012	N-Nitrosodiphenylamine	<0.01
2-Nitrophenol	<0.082	4-Nitroaniline	<0.18
2,4-Dimethylphenol	<0.19	4,6-Dinitro-2-methylphenol	<0.11
Benzoic acid	<0.55	4-Bromophenyl phenyl ether	<0.016
Bis(2-chloroethoxy)methane	<0.014	Hexachlorobenzene	<0.01
2,4-Dichlorophenol	<0.058	Pentachlorophenol	<0.062
1,2,4-Trichlorobenzene	<0.034	Carbazole	<0.02
Hexachlorobutadiene	<0.02	Di-n-butyl phthalate	<0.2
4-Chloroaniline	<1.8	Benzyl butyl phthalate	<0.058
4-Chloro-3-methylphenol	<0.044	Bis(2-ethylhexyl) phthalate	<0.13
2-Methylnaphthalene	<0.01	Di-n-octyl phthalate	<0.034
Hexachlorocyclopentadiene	<0.022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-10D-5.0'	Client:	SLR International Corp.
Date Received:	06/19/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/01/13	Lab ID:	306316-03 1/20000
Date Analyzed:	07/10/13	Data File:	071013.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	0 ds	56	115
Phenol-d6	0 ds	54	113
Nitrobenzene-d5	0 ds	31	164
2-Fluorobiphenyl	0 ds	47	133
2,4,6-Tribromophenol	0 ds	35	141
Terphenyl-d14	0 ds	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<110	2,4,6-Trichlorophenol	<160
Bis(2-chloroethyl) ether	<32	2,4,5-Trichlorophenol	<190
2-Chlorophenol	<120	2-Chloronaphthalene	<28
1,3-Dichlorobenzene	<52	2-Nitroaniline	<52
1,4-Dichlorobenzene	<48	Dimethyl phthalate	<24
1,2-Dichlorobenzene	<80	2,6-Dinitrotoluene	<36
Benzyl alcohol	<100	3-Nitroaniline	<350
Bis(2-chloroisopropyl) ether	<32	2,4-Dinitrophenol	<280
2-Methylphenol	<130	Dibenzofuran	160
Hexachloroethane	<68	2,4-Dinitrotoluene	<32
N-Nitroso-di-n-propylamine	<60	4-Nitrophenol	<360
3-Methylphenol + 4-Methylphenol	<290	Diethyl phthalate	<80
Nitrobenzene	<52	4-Chlorophenyl phenyl ether	<32
Isophorone	<24	N-Nitrosodiphenylamine	<20
2-Nitrophenol	<160	4-Nitroaniline	<360
2,4-Dimethylphenol	<370	4,6-Dinitro-2-methylphenol	<210
Benzoic acid	<1,100	4-Bromophenyl phenyl ether	<32
Bis(2-chloroethoxy)methane	<28	Hexachlorobenzene	<20
2,4-Dichlorophenol	<120	Pentachlorophenol	<120
1,2,4-Trichlorobenzene	<68	Carbazole	<40
Hexachlorobutadiene	<40	Di-n-butyl phthalate	<400
4-Chloroaniline	<3,600	Benzyl butyl phthalate	<120
4-Chloro-3-methylphenol	<88	Bis(2-ethylhexyl) phthalate	<270
2-Methylnaphthalene	88	Di-n-octyl phthalate	<68
Hexachlorocyclopentadiene	<44		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-10D-10.0'	Client:	SLR International Corp.
Date Received:	06/19/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/01/13	Lab ID:	306316-05
Date Analyzed:	07/10/13	Data File:	071014.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	62	56	115
Phenol-d6	66	54	113
Nitrobenzene-d5	67	31	164
2-Fluorobiphenyl	69	47	133
2,4,6-Tribromophenol	79	35	141
Terphenyl-d14	79	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	<0.005	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014
2-Methylphenol	<0.0064	Dibenzofuran	0.017
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062
1,2,4-Trichlorobenzene	<0.0034	Carbazole	0.0060
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	0.0067
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	<0.013
2-Methylnaphthalene	0.0072	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-10D-15.0'	Client:	SLR International Corp.
Date Received:	06/19/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/01/13	Lab ID:	306316-07
Date Analyzed:	07/11/13	Data File:	071119.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	57	56	115
Phenol-d6	45 ip	54	113
Nitrobenzene-d5	59	31	164
2-Fluorobiphenyl	62	47	133
2,4,6-Tribromophenol	82	35	141
Terphenyl-d14	106	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	<0.005	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014
2-Methylphenol	<0.0064	Dibenzofuran	0.0014
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	<0.013
2-Methylnaphthalene	0.0010	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-10D-35.0'	Client:	SLR International Corp.
Date Received:	06/19/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/01/13	Lab ID:	306316-11 1/400
Date Analyzed:	07/10/13	Data File:	071016.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	94	56	115
Phenol-d6	66	54	113
Nitrobenzene-d5	120	31	164
2-Fluorobiphenyl	120	47	133
2,4,6-Tribromophenol	66	35	141
Terphenyl-d14	120	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<2.2	2,4,6-Trichlorophenol	<3.2
Bis(2-chloroethyl) ether	<0.64	2,4,5-Trichlorophenol	<3.8
2-Chlorophenol	<2.5	2-Chloronaphthalene	<0.56
1,3-Dichlorobenzene	<1	2-Nitroaniline	<1
1,4-Dichlorobenzene	<0.96	Dimethyl phthalate	<0.48
1,2-Dichlorobenzene	<1.6	2,6-Dinitrotoluene	<0.72
Benzyl alcohol	<2	3-Nitroaniline	<7
Bis(2-chloroisopropyl) ether	<0.64	2,4-Dinitrophenol	<5.5
2-Methylphenol	<2.6	Dibenzofuran	84 ve
Hexachloroethane	<1.4	2,4-Dinitrotoluene	<0.64
N-Nitroso-di-n-propylamine	<1.2	4-Nitrophenol	<7.1
3-Methylphenol + 4-Methylphenol	<5.8	Diethyl phthalate	<1.6
Nitrobenzene	<1	4-Chlorophenyl phenyl ether	<0.64
Isophorone	<0.48	N-Nitrosodiphenylamine	<0.4
2-Nitrophenol	<3.3	4-Nitroaniline	<7.3
2,4-Dimethylphenol	<7.4	4,6-Dinitro-2-methylphenol	<4.2
Benzoic acid	<22	4-Bromophenyl phenyl ether	<0.64
Bis(2-chloroethoxy)methane	<0.56	Hexachlorobenzene	<0.4
2,4-Dichlorophenol	<2.3	Pentachlorophenol	<2.5
1,2,4-Trichlorobenzene	<1.4	Carbazole	1.5
Hexachlorobutadiene	<0.8	Di-n-butyl phthalate	<8
4-Chloroaniline	<71	Benzyl butyl phthalate	<2.3
4-Chloro-3-methylphenol	<1.8	Bis(2-ethylhexyl) phthalate	<5.4
2-Methylnaphthalene	12	Di-n-octyl phthalate	<1.4
Hexachlorocyclopentadiene	<0.88		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-10D-35.0'	Client:	SLR International Corp.
Date Received:	06/19/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/01/13	Lab ID:	306316-11 1/4000
Date Analyzed:	07/11/13	Data File:	071121.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	0 ds	56	115
Phenol-d6	0 ds	54	113
Nitrobenzene-d5	0 ds	31	164
2-Fluorobiphenyl	0 ds	47	133
2,4,6-Tribromophenol	0 ds	35	141
Terphenyl-d14	0 ds	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<22	2,4,6-Trichlorophenol	<32
Bis(2-chloroethyl) ether	<6.4	2,4,5-Trichlorophenol	<38
2-Chlorophenol	<25	2-Chloronaphthalene	<5.6
1,3-Dichlorobenzene	<10	2-Nitroaniline	<10
1,4-Dichlorobenzene	<9.6	Dimethyl phthalate	<4.8
1,2-Dichlorobenzene	<16	2,6-Dinitrotoluene	<7.2
Benzyl alcohol	<20	3-Nitroaniline	<70
Bis(2-chloroisopropyl) ether	<6.4	2,4-Dinitrophenol	<55
2-Methylphenol	<26	Dibenzofuran	98
Hexachloroethane	<14	2,4-Dinitrotoluene	<6.4
N-Nitroso-di-n-propylamine	<12	4-Nitrophenol	<71
3-Methylphenol + 4-Methylphenol	<58	Diethyl phthalate	<16
Nitrobenzene	<10	4-Chlorophenyl phenyl ether	<6.4
Isophorone	<4.8	N-Nitrosodiphenylamine	<4
2-Nitrophenol	<33	4-Nitroaniline	<73
2,4-Dimethylphenol	<74	4,6-Dinitro-2-methylphenol	<42
Benzoic acid	<220	4-Bromophenyl phenyl ether	<6.4
Bis(2-chloroethoxy)methane	<5.6	Hexachlorobenzene	<4
2,4-Dichlorophenol	<23	Pentachlorophenol	<25
1,2,4-Trichlorobenzene	<14	Carbazole	<8
Hexachlorobutadiene	<8	Di-n-butyl phthalate	<80
4-Chloroaniline	<710	Benzyl butyl phthalate	<23
4-Chloro-3-methylphenol	<18	Bis(2-ethylhexyl) phthalate	<54
2-Methylnaphthalene	11	Di-n-octyl phthalate	<14
Hexachlorocyclopentadiene	<8.8		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EB-16-2.5'	Client:	SLR International Corp.
Date Received:	06/19/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/01/13	Lab ID:	306316-14 1/1000
Date Analyzed:	07/10/13	Data File:	071018.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	70 ds	56	115
Phenol-d6	70 ds	54	113
Nitrobenzene-d5	200 ds	31	164
2-Fluorobiphenyl	100 ds	47	133
2,4,6-Tribromophenol	0 ds	35	141
Terphenyl-d14	200 ds	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<5.4	2,4,6-Trichlorophenol	<8
Bis(2-chloroethyl) ether	<1.6	2,4,5-Trichlorophenol	<9.6
2-Chlorophenol	<6.2	2-Chloronaphthalene	<1.4
1,3-Dichlorobenzene	<2.6	2-Nitroaniline	<2.6
1,4-Dichlorobenzene	<2.4	Dimethyl phthalate	<1.2
1,2-Dichlorobenzene	<4	2,6-Dinitrotoluene	<1.8
Benzyl alcohol	<5	3-Nitroaniline	<17
Bis(2-chloroisopropyl) ether	<1.6	2,4-Dinitrophenol	<14
2-Methylphenol	<6.4	Dibenzofuran	<1
Hexachloroethane	<3.4	2,4-Dinitrotoluene	<1.6
N-Nitroso-di-n-propylamine	<3	4-Nitrophenol	<18
3-Methylphenol + 4-Methylphenol	<14	Diethyl phthalate	<4
Nitrobenzene	<2.6	4-Chlorophenyl phenyl ether	<1.6
Isophorone	<1.2	N-Nitrosodiphenylamine	<1
2-Nitrophenol	<8.2	4-Nitroaniline	<18
2,4-Dimethylphenol	<19	4,6-Dinitro-2-methylphenol	<11
Benzoic acid	<55	4-Bromophenyl phenyl ether	<1.6
Bis(2-chloroethoxy)methane	<1.4	Hexachlorobenzene	<1
2,4-Dichlorophenol	<5.8	Pentachlorophenol	<6.2
1,2,4-Trichlorobenzene	<3.4	Carbazole	<2
Hexachlorobutadiene	<2	Di-n-butyl phthalate	<20
4-Chloroaniline	<180	Benzyl butyl phthalate	<5.8
4-Chloro-3-methylphenol	<4.4	Bis(2-ethylhexyl) phthalate	<13
2-Methylnaphthalene	<1	Di-n-octyl phthalate	<3.4
Hexachlorocyclopentadiene	<2.2		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EB-16-5.0'	Client:	SLR International Corp.
Date Received:	06/19/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/01/13	Lab ID:	306316-15
Date Analyzed:	07/10/13	Data File:	071019.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	66	56	115
Phenol-d6	67	54	113
Nitrobenzene-d5	71	31	164
2-Fluorobiphenyl	69	47	133
2,4,6-Tribromophenol	80	35	141
Terphenyl-d14	84	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	<0.005	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014
2-Methylphenol	<0.0064	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	<0.013
2-Methylnaphthalene	<0.001	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EB-16-10.0'	Client:	SLR International Corp.
Date Received:	06/19/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/01/13	Lab ID:	306316-17
Date Analyzed:	07/11/13	Data File:	071120.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	69	56	115
Phenol-d6	61	54	113
Nitrobenzene-d5	78	31	164
2-Fluorobiphenyl	78	47	133
2,4,6-Tribromophenol	106	35	141
Terphenyl-d14	102	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	<0.005	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014
2-Methylphenol	<0.0064	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019	4,6-Dinitro-2-methylphenol	<0.011
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	0.014 lc
2-Methylnaphthalene	<0.001	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-10S-5.0'	Client:	SLR International Corp.
Date Received:	06/19/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/01/13	Lab ID:	306316-26 1/2000
Date Analyzed:	07/10/13	Data File:	071023.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	0 ds	56	115
Phenol-d6	0 ds	54	113
Nitrobenzene-d5	0 ds	31	164
2-Fluorobiphenyl	0 ds	47	133
2,4,6-Tribromophenol	0 ds	35	141
Terphenyl-d14	0 ds	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<11	2,4,6-Trichlorophenol	<16
Bis(2-chloroethyl) ether	<3.2	2,4,5-Trichlorophenol	<19
2-Chlorophenol	<12	2-Chloronaphthalene	<2.8
1,3-Dichlorobenzene	<5.2	2-Nitroaniline	<5.2
1,4-Dichlorobenzene	<4.8	Dimethyl phthalate	<2.4
1,2-Dichlorobenzene	<8	2,6-Dinitrotoluene	<3.6
Benzyl alcohol	<10	3-Nitroaniline	<35
Bis(2-chloroisopropyl) ether	<3.2	2,4-Dinitrophenol	<28
2-Methylphenol	<13	Dibenzofuran	37
Hexachloroethane	<6.8	2,4-Dinitrotoluene	<3.2
N-Nitroso-di-n-propylamine	<6	4-Nitrophenol	<36
3-Methylphenol + 4-Methylphenol	<29	Diethyl phthalate	<8
Nitrobenzene	<5.2	4-Chlorophenyl phenyl ether	<3.2
Isophorone	<2.4	N-Nitrosodiphenylamine	<2
2-Nitrophenol	<16	4-Nitroaniline	<36
2,4-Dimethylphenol	<37	4,6-Dinitro-2-methylphenol	<21
Benzoic acid	<110	4-Bromophenyl phenyl ether	<3.2
Bis(2-chloroethoxy)methane	<2.8	Hexachlorobenzene	<2
2,4-Dichlorophenol	<12	Pentachlorophenol	<12
1,2,4-Trichlorobenzene	<6.8	Carbazole	9.7
Hexachlorobutadiene	<4	Di-n-butyl phthalate	<40
4-Chloroaniline	<360	Benzyl butyl phthalate	<12
4-Chloro-3-methylphenol	<8.8	Bis(2-ethylhexyl) phthalate	<27
2-Methylnaphthalene	18	Di-n-octyl phthalate	<6.8
Hexachlorocyclopentadiene	<4.4		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley 101.00205.00030
Date Extracted:	07/01/13	Lab ID:	03-1298 mb
Date Analyzed:	07/09/13	Data File:	070919.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	90	56	115
Phenol-d6	88	54	113
Nitrobenzene-d5	94	31	164
2-Fluorobiphenyl	96	47	133
2,4,6-Tribromophenol	101	35	141
Terphenyl-d14	95	64	125

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.0054	2,4,6-Trichlorophenol	<0.008
Bis(2-chloroethyl) ether	<0.0016	2,4,5-Trichlorophenol	<0.0096
2-Chlorophenol	<0.0062	2-Chloronaphthalene	<0.0014
1,3-Dichlorobenzene	<0.0026	2-Nitroaniline	<0.0026
1,4-Dichlorobenzene	<0.0024	Dimethyl phthalate	<0.0012
1,2-Dichlorobenzene	<0.004	2,6-Dinitrotoluene	<0.0018
Benzyl alcohol	<0.005	3-Nitroaniline	<0.017
Bis(2-chloroisopropyl) ether	<0.0016	2,4-Dinitrophenol	<0.014 ca
2-Methylphenol	<0.0064	Dibenzofuran	<0.001
Hexachloroethane	<0.0034	2,4-Dinitrotoluene	<0.0016
N-Nitroso-di-n-propylamine	<0.003	4-Nitrophenol	<0.018
3-Methylphenol + 4-Methylphenol	<0.014	Diethyl phthalate	<0.004
Nitrobenzene	<0.0026	4-Chlorophenyl phenyl ether	<0.0016
Isophorone	<0.0012	N-Nitrosodiphenylamine	<0.001
2-Nitrophenol	<0.0082	4-Nitroaniline	<0.018
2,4-Dimethylphenol	<0.019	4,6-Dinitro-2-methylphenol	<0.01 ca
Benzoic acid	<0.055	4-Bromophenyl phenyl ether	<0.0016
Bis(2-chloroethoxy)methane	<0.0014	Hexachlorobenzene	<0.001
2,4-Dichlorophenol	<0.0058	Pentachlorophenol	<0.0062
1,2,4-Trichlorobenzene	<0.0034	Carbazole	<0.002
Hexachlorobutadiene	<0.002	Di-n-butyl phthalate	<0.02
4-Chloroaniline	<0.18	Benzyl butyl phthalate	<0.0058
4-Chloro-3-methylphenol	<0.0044	Bis(2-ethylhexyl) phthalate	<0.013
2-Methylnaphthalene	<0.001	Di-n-octyl phthalate	<0.0034
Hexachlorocyclopentadiene	<0.0022		

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-10D-1.0'	Client:	SLR International Corp.
Date Received:	06/19/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/01/13	Lab ID:	306316-01 1/10
Date Analyzed:	07/10/13	Data File:	071014.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	244 ds	50	150
Benzo(a)anthracene-d12	101 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.0022
Acenaphthylene	0.010
Acenaphthene	0.011
Fluorene	0.0099
Phenanthrene	0.092
Anthracene	0.024
Fluoranthene	0.20
Pyrene	0.21
Benz(a)anthracene	0.12
Chrysene	0.17
Benzo(a)pyrene	0.20
Benzo(b)fluoranthene	0.26
Benzo(k)fluoranthene	0.075
Indeno(1,2,3-cd)pyrene	0.19
Dibenz(a,h)anthracene	0.037
Benzo(g,h,i)perylene	0.16

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-10D-5.0'	Client:	SLR International Corp.
Date Received:	06/19/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/01/13	Lab ID:	306316-03 1/20000
Date Analyzed:	07/10/13	Data File:	071017.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	100400 ds	50	150
Benzo(a)anthracene-d12	12400 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	35
Acenaphthylene	18
Acenaphthene	640
Fluorene	340
Phenanthrene	1,100
Anthracene	300
Fluoranthene	1,400
Pyrene	1,500 ve
Benz(a)anthracene	410
Chrysene	450
Benzo(a)pyrene	290
Benzo(b)fluoranthene	380
Benzo(k)fluoranthene	150
Indeno(1,2,3-cd)pyrene	150
Dibenz(a,h)anthracene	28
Benzo(g,h,i)perylene	110

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-10D-5.0'	Client:	SLR International Corp.
Date Received:	06/19/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/01/13	Lab ID:	306316-03 1/200000
Date Analyzed:	07/11/13	Data File:	071118.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	0 ds	50	150
Benzo(a)anthracene-d12	0 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<44
Acenaphthylene	28
Acenaphthene	560
Fluorene	420
Phenanthrene	900
Anthracene	520
Fluoranthene	1,500
Pyrene	1,500
Benz(a)anthracene	360
Chrysene	460
Benzo(a)pyrene	300
Benzo(b)fluoranthene	320
Benzo(k)fluoranthene	180
Indeno(1,2,3-cd)pyrene	160
Dibenz(a,h)anthracene	<68
Benzo(g,h,i)perylene	110

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-10D-10.0'	Client:	SLR International Corp.
Date Received:	06/19/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/01/13	Lab ID:	306316-05 1/10
Date Analyzed:	07/11/13	Data File:	071119.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	279 ds	50	150
Benzo(a)anthracene-d12	54 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.032
Acenaphthylene	0.0039
Acenaphthene	0.078
Fluorene	0.042
Phenanthrene	0.15
Anthracene	0.070
Fluoranthene	0.33
Pyrene	0.37
Benz(a)anthracene	0.11
Chrysene	0.15
Benzo(a)pyrene	0.079
Benzo(b)fluoranthene	0.095
Benzo(k)fluoranthene	0.050
Indeno(1,2,3-cd)pyrene	0.046
Dibenz(a,h)anthracene	0.015
Benzo(g,h,i)perylene	0.033

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-10D-15.0'	Client:	SLR International Corp.
Date Received:	06/19/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/01/13	Lab ID:	306316-07
Date Analyzed:	07/11/13	Data File:	071120.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	88	50	150
Benzo(a)anthracene-d12	76	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.0018
Acenaphthylene	0.00035
Acenaphthene	0.030
Fluorene	0.00095
Phenanthrene	0.0028
Anthracene	0.0011
Fluoranthene	0.015
Pyrene	0.017
Benz(a)anthracene	0.0052
Chrysene	0.0057
Benzo(a)pyrene	0.0040
Benzo(b)fluoranthene	0.0058
Benzo(k)fluoranthene	0.0020
Indeno(1,2,3-cd)pyrene	0.0022
Dibenz(a,h)anthracene	0.00074
Benzo(g,h,i)perylene	0.0018

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-10D-35.0'	Client:	SLR International Corp.
Date Received:	06/19/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/01/13	Lab ID:	306316-11 1/400
Date Analyzed:	07/10/13	Data File:	071025.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	368 ds	50	150
Benzo(a)anthracene-d12	628 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	1.0
Acenaphthylene	2.0
Acenaphthene	140 ve
Fluorene	130 ve
Phenanthrene	480 ve
Anthracene	79 ve
Fluoranthene	270 ve
Pyrene	300 ve
Benz(a)anthracene	110 ve
Chrysene	78 ve
Benzo(a)pyrene	62 ve
Benzo(b)fluoranthene	79 ve
Benzo(k)fluoranthene	22
Indeno(1,2,3-cd)pyrene	28
Dibenz(a,h)anthracene	8.7
Benzo(g,h,i)perylene	24

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-10D-35.0'	Client:	SLR International Corp.
Date Received:	06/19/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/01/13	Lab ID:	306316-11 1/20000
Date Analyzed:	07/11/13	Data File:	071130.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	0 ds	50	150
Benzo(a)anthracene-d12	0 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<4.4
Acenaphthylene	2.9
Acenaphthene	190
Fluorene	180
Phenanthrene	720
Anthracene	100
Fluoranthene	400
Pyrene	410
Benz(a)anthracene	130
Chrysene	97
Benzo(a)pyrene	80
Benzo(b)fluoranthene	120
Benzo(k)fluoranthene	35
Indeno(1,2,3-cd)pyrene	34
Dibenz(a,h)anthracene	11
Benzo(g,h,i)perylene	30

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-10D-50.0'	Client:	SLR International Corp.
Date Received:	06/19/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/01/13	Lab ID:	306316-13
Date Analyzed:	07/10/13	Data File:	071026.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	78	50	150
Benzo(a)anthracene-d12	92	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.0016
Acenaphthylene	0.0015
Acenaphthene	0.10 ve
Fluorene	0.074
Phenanthrene	0.28 ve
Anthracene	0.039
Fluoranthene	0.15 ve
Pyrene	0.18 ve
Benz(a)anthracene	0.059
Chrysene	0.041
Benzo(a)pyrene	0.036
Benzo(b)fluoranthene	0.047
Benzo(k)fluoranthene	0.014
Indeno(1,2,3-cd)pyrene	0.017
Dibenz(a,h)anthracene	0.0048
Benzo(g,h,i)perylene	0.014

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-10D-50.0'	Client:	SLR International Corp.
Date Received:	06/19/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/01/13	Lab ID:	306316-13 1/10
Date Analyzed:	07/11/13	Data File:	071131.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	127	50	150
Benzo(a)anthracene-d12	103	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.0022
Acenaphthylene	0.0012
Acenaphthene	0.11
Fluorene	0.083
Phenanthrene	0.34
Anthracene	0.044
Fluoranthene	0.20
Pyrene	0.20
Benz(a)anthracene	0.066
Chrysene	0.047
Benzo(a)pyrene	0.040
Benzo(b)fluoranthene	0.063
Benzo(k)fluoranthene	0.018
Indeno(1,2,3-cd)pyrene	0.018
Dibenz(a,h)anthracene	0.0058
Benzo(g,h,i)perylene	0.015

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-16-2.5'	Client:	SLR International Corp.
Date Received:	06/19/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/01/13	Lab ID:	306316-14 1/100
Date Analyzed:	07/11/13	Data File:	071132.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	255 ds	50	150
Benzo(a)anthracene-d12	146 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.022
Acenaphthylene	<0.0091
Acenaphthene	<0.014
Fluorene	<0.015
Phenanthrene	0.21
Anthracene	0.023
Fluoranthene	0.11
Pyrene	0.15
Benz(a)anthracene	0.046
Chrysene	0.063
Benzo(a)pyrene	0.039
Benzo(b)fluoranthene	0.050
Benzo(k)fluoranthene	<0.036
Indeno(1,2,3-cd)pyrene	<0.062
Dibenz(a,h)anthracene	<0.034
Benzo(g,h,i)perylene	0.051

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-16-5.0'	Client:	SLR International Corp.
Date Received:	06/19/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/01/13	Lab ID:	306316-15
Date Analyzed:	07/10/13	Data File:	071028.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	80	50	150
Benzo(a)anthracene-d12	95	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.00036
Acenaphthylene	0.000096
Acenaphthene	0.00093
Fluorene	0.00064
Phenanthrene	0.0029
Anthracene	0.00051
Fluoranthene	0.0055
Pyrene	0.0065
Benz(a)anthracene	0.0022
Chrysene	0.0025
Benzo(a)pyrene	0.0017
Benzo(b)fluoranthene	0.0030
Benzo(k)fluoranthene	0.00088
Indeno(1,2,3-cd)pyrene	0.0010
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	0.00093

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-16-10.0'	Client:	SLR International Corp.
Date Received:	06/19/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/01/13	Lab ID:	306316-17
Date Analyzed:	07/10/13	Data File:	071029.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	80	50	150
Benzo(a)anthracene-d12	91	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.00039
Acenaphthylene	<0.000091
Acenaphthene	0.00082
Fluorene	0.00074
Phenanthrene	0.0042
Anthracene	0.00068
Fluoranthene	0.0057
Pyrene	0.0066
Benz(a)anthracene	0.0020
Chrysene	0.0021
Benzo(a)pyrene	0.0014
Benzo(b)fluoranthene	0.0019
Benzo(k)fluoranthene	0.00065
Indeno(1,2,3-cd)pyrene	0.00077
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	0.00064

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EB-16-15.0'	Client:	SLR International Corp.
Date Received:	06/19/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/01/13	Lab ID:	306316-19
Date Analyzed:	07/17/13	Data File:	071706.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	1 vo	50	150
Benzo(a)anthracene-d12	3 vo	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.00022
Acenaphthylene	<0.000091
Acenaphthene	0.00022
Fluorene	0.00026
Phenanthrene	0.0011
Anthracene	0.00015
Fluoranthene	0.0010
Pyrene	0.0011
Benz(a)anthracene	0.00046
Chrysene	0.00043
Benzo(a)pyrene	0.00037
Benzo(b)fluoranthene	0.00048
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	<0.00062
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	<0.00034

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-10S-5.0'	Client:	SLR International Corp.
Date Received:	06/19/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/01/13	Lab ID:	306316-26 1/2000
Date Analyzed:	07/11/13	Data File:	071117.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	1750 ds	50	150
Benzo(a)anthracene-d12	3020 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	18
Acenaphthylene	18
Acenaphthene	390 ve
Fluorene	160
Phenanthrene	430 ve
Anthracene	190 ve
Fluoranthene	1,200 ve
Pyrene	1,400 ve
Benz(a)anthracene	460 ve
Chrysene	440 ve
Benzo(a)pyrene	290 ve
Benzo(b)fluoranthene	430 ve
Benzo(k)fluoranthene	100
Indeno(1,2,3-cd)pyrene	170 ve
Dibenz(a,h)anthracene	44
Benzo(g,h,i)perylene	130

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-10S-5.0'	Client:	SLR International Corp.
Date Received:	06/19/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/01/13	Lab ID:	306316-26 1/40000
Date Analyzed:	07/15/13	Data File:	071504.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	0 ds	50	150
Benzo(a)anthracene-d12	0 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	18
Acenaphthylene	13
Acenaphthene	440
Fluorene	180
Phenanthrene	480
Anthracene	190
Fluoranthene	1,500
Pyrene	1,700
Benz(a)anthracene	500
Chrysene	490
Benzo(a)pyrene	320
Benzo(b)fluoranthene	480
Benzo(k)fluoranthene	140
Indeno(1,2,3-cd)pyrene	140
Dibenz(a,h)anthracene	42
Benzo(g,h,i)perylene	140

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley 101.00205.00030
Date Extracted:	07/01/13	Lab ID:	03-1296 mb
Date Analyzed:	07/09/13	Data File:	070915.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	92	50	150
Benzo(a)anthracene-d12	105	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.00022
Acenaphthylene	<0.000091
Acenaphthene	<0.00014
Fluorene	<0.00015
Phenanthrene	<0.00032
Anthracene	<0.000088
Fluoranthene	<0.00028
Pyrene	<0.00026
Benz(a)anthracene	<0.00018
Chrysene	<0.00019
Benzo(a)pyrene	<0.00022
Benzo(b)fluoranthene	<0.00018
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	<0.00062
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	<0.00034

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley 101.00205.00030
Date Extracted:	07/22/13	Lab ID:	03-1431 mb
Date Analyzed:	07/23/13	Data File:	072305.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	77	50	150
Benzo(a)anthracene-d12	105	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.00022
Acenaphthylene	<0.000091
Acenaphthene	<0.00014
Fluorene	<0.00015
Phenanthrene	<0.00032
Anthracene	<0.000088
Fluoranthene	<0.00028
Pyrene	<0.00026
Benz(a)anthracene	<0.00018
Chrysene	<0.00019
Benzo(a)pyrene	<0.00022
Benzo(b)fluoranthene	<0.00018
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	<0.00062
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	<0.00034

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-10D-1.0'	Client:	SLR International Corp.
Date Received:	06/19/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/01/13	Lab ID:	306316-01
Date Analyzed:	07/11/13	Data File:	36.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	83	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-10D-5.0'	Client:	SLR International Corp.
Date Received:	06/19/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/01/13	Lab ID:	306316-03 1/5
Date Analyzed:	07/11/13	Data File:	40.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	78 ds	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.17
Aroclor 1232	<0.17
Aroclor 1016	<0.17
Aroclor 1242	<0.17
Aroclor 1248	<0.17
Aroclor 1254	<0.17
Aroclor 1260	<0.17

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-10D-10.0'	Client:	SLR International Corp.
Date Received:	06/19/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/01/13	Lab ID:	306316-05 1/100
Date Analyzed:	07/12/13	Data File:	40.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	100 ds	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<3.3
Aroclor 1232	<3.3
Aroclor 1016	<3.3
Aroclor 1242	<3.3
Aroclor 1248	<3.3
Aroclor 1254	<3.3
Aroclor 1260	<3.3

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-10D-15.0'	Client:	SLR International Corp.
Date Received:	06/19/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/01/13	Lab ID:	306316-07 1/10
Date Analyzed:	07/12/13	Data File:	42.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	135 ds	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.33
Aroclor 1232	<0.33
Aroclor 1016	<0.33
Aroclor 1242	<0.33
Aroclor 1248	<0.33
Aroclor 1254	<0.33
Aroclor 1260	<0.33

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-10D-35.0'	Client:	SLR International Corp.
Date Received:	06/19/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/01/13	Lab ID:	306316-11 1/1,000
Date Analyzed:	07/12/13	Data File:	44.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	500 ds	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<33
Aroclor 1232	<33
Aroclor 1016	<33
Aroclor 1242	<33
Aroclor 1248	<33
Aroclor 1254	<33
Aroclor 1260	<33

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EB-16-2.5'	Client:	SLR International Corp.
Date Received:	06/19/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/01/13	Lab ID:	306316-14 1/5
Date Analyzed:	07/12/13	Data File:	66.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	103 ds	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.17
Aroclor 1232	<0.17
Aroclor 1016	<0.17
Aroclor 1242	<0.17
Aroclor 1248	<0.17
Aroclor 1254	<0.17
Aroclor 1260	<0.17

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EB-16-5.0'	Client:	SLR International Corp.
Date Received:	06/19/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/01/13	Lab ID:	306316-15
Date Analyzed:	07/12/13	Data File:	52.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	94	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EB-16-10.0'	Client:	SLR International Corp.
Date Received:	06/19/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/01/13	Lab ID:	306316-17 1/100
Date Analyzed:	07/12/13	Data File:	48.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	150 ds	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<3.3
Aroclor 1232	<3.3
Aroclor 1016	<3.3
Aroclor 1242	<3.3
Aroclor 1248	<3.3
Aroclor 1254	<3.3
Aroclor 1260	<3.3

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-10S-5.0'	Client:	SLR International Corp.
Date Received:	06/19/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/01/13	Lab ID:	306316-26 1/5
Date Analyzed:	07/12/13	Data File:	64.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	63 ds	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.17
Aroclor 1232	<0.17
Aroclor 1016	<0.17
Aroclor 1242	<0.17
Aroclor 1248	<0.17
Aroclor 1254	<0.17
Aroclor 1260	<0.17

Analysis For PCBs By EPA Method 8082

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley 101.00205.00030
Date Extracted:	07/01/13	Lab ID:	03-1301 mb
Date Analyzed:	07/11/13	Data File:	38.D\ECD1A.CH
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	95	50	150

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.033
Aroclor 1232	<0.033
Aroclor 1016	<0.033
Aroclor 1242	<0.033
Aroclor 1248	<0.033
Aroclor 1254	<0.033
Aroclor 1260	<0.033

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-10D-1.0'	Client:	SLR International Corp.
Date Received:	06/19/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/09/13	Lab ID:	306316-01
Date Analyzed:	07/11/13	Data File:	306316-01.046
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	110	60	125
Indium	103	60	125
Holmium	95	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.154
Chromium	10.7
Nickel	17.0
Copper	111
Zinc	247
Arsenic	90.6
Selenium	<0.920 j
Silver	0.160
Cadmium	0.240
Antimony	58.1
Barium	34.5
Thallium	0.0840
Lead	80.9

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-10D-5.0'	Client:	SLR International Corp.
Date Received:	06/19/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/09/13	Lab ID:	306316-03
Date Analyzed:	07/11/13	Data File:	306316-03.047
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	107	60	125
Indium	93	60	125
Holmium	92	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	<0.086
Chromium	4.59
Nickel	4.35
Copper	13.1
Zinc	26.4
Arsenic	3.10
Selenium	<0.920 j
Silver	<0.0780 j
Cadmium	<0.200
Antimony	0.343
Barium	19.2
Thallium	<0.0440 j
Lead	11.0

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-10D-10.0'	Client:	SLR International Corp.
Date Received:	06/19/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/09/13	Lab ID:	306316-05
Date Analyzed:	07/11/13	Data File:	306316-05.049
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	103	60	125
Indium	89	60	125
Holmium	89	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.200
Chromium	9.08
Nickel	7.05
Copper	17.6
Zinc	24.7
Arsenic	3.76
Selenium	<0.920 j
Silver	<0.0780 j
Cadmium	<0.200
Antimony	0.215
Barium	38.3
Thallium	0.0733
Lead	5.31

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-10D-15.0'	Client:	SLR International Corp.
Date Received:	06/19/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/09/13	Lab ID:	306316-07
Date Analyzed:	07/11/13	Data File:	306316-07.050
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	107	60	125
Indium	94	60	125
Holmium	96	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.128
Chromium	6.93
Nickel	6.96
Copper	14.1
Zinc	17.6
Arsenic	2.95
Selenium	<0.920 j
Silver	<0.0780 j
Cadmium	<0.200
Antimony	<0.106 j
Barium	18.0
Thallium	<0.0440 j
Lead	1.58

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-10D-35.0'	Client:	SLR International Corp.
Date Received:	06/19/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/09/13	Lab ID:	306316-11
Date Analyzed:	07/11/13	Data File:	306316-11.051
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	102	60	125
Indium	88	60	125
Holmium	89	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.108
Chromium	4.91
Nickel	5.45
Copper	8.75
Zinc	16.1
Arsenic	0.904
Selenium	<0.920 j
Silver	<0.0780 j
Cadmium	<0.200
Antimony	<0.106 j
Barium	15.6
Thallium	<0.0440 j
Lead	1.00

Analysis For Total Metals By EPA Method 200.8

Client ID:	EB-16-2.5'	Client:	SLR International Corp.
Date Received:	06/19/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/09/13	Lab ID:	306316-14
Date Analyzed:	07/11/13	Data File:	306316-14.052
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	99	60	125
Indium	85	60	125
Holmium	86	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.136
Chromium	8.60
Nickel	13.5
Copper	20.5
Zinc	34.1
Arsenic	4.49
Selenium	<0.920 j
Silver	<0.0780 j
Cadmium	0.273
Antimony	1.22
Barium	41.1
Thallium	<0.0440 j
Lead	14.4

Analysis For Total Metals By EPA Method 200.8

Client ID:	EB-16-5.0'	Client:	SLR International Corp.
Date Received:	06/19/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/09/13	Lab ID:	306316-15
Date Analyzed:	07/11/13	Data File:	306316-15.053
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	95	60	125
Indium	81	60	125
Holmium	85	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	<0.086
Chromium	4.39
Nickel	3.52
Copper	5.85
Zinc	15.5
Arsenic	1.54
Selenium	<0.920 j
Silver	<0.0780 j
Cadmium	<0.200
Antimony	<0.106 j
Barium	11.9
Thallium	<0.0440 j
Lead	0.931

Analysis For Total Metals By EPA Method 200.8

Client ID:	EB-16-10.0'	Client:	SLR International Corp.
Date Received:	06/19/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/09/13	Lab ID:	306316-17
Date Analyzed:	07/11/13	Data File:	306316-17.054
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	102	60	125
Indium	85	60	125
Holmium	89	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	0.155
Chromium	8.35
Nickel	6.28
Copper	11.9
Zinc	16.2
Arsenic	2.85
Selenium	<0.920 j
Silver	<0.0780 j
Cadmium	<0.200
Antimony	<0.106 j
Barium	35.3
Thallium	<0.0440 j
Lead	2.38

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-10S-5.0'	Client:	SLR International Corp.
Date Received:	06/19/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/09/13	Lab ID:	306316-26
Date Analyzed:	07/11/13	Data File:	306316-26.055
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	108	60	125
Indium	93	60	125
Holmium	95	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	<0.086
Chromium	5.01
Nickel	5.28
Copper	10.5
Zinc	25.3
Arsenic	2.64
Selenium	<0.920 j
Silver	<0.0780 j
Cadmium	<0.200
Antimony	2.06
Barium	21.9
Thallium	<0.0440 j
Lead	11.9

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley 101.00205.00030
Date Extracted:	07/09/13	Lab ID:	I3-408 mb
Date Analyzed:	07/11/13	Data File:	I3-408 mb.060
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	102	60	125
Indium	93	60	125
Holmium	92	60	125

Analyte:	Concentration mg/kg (ppm)
Beryllium	<0.086
Chromium	<0.48
Nickel	<0.21
Copper	<0.072 j
Zinc	<0.98
Arsenic	<0.42
Selenium	<0.92 j
Silver	<0.079 j
Cadmium	<0.20
Antimony	<0.106 j
Barium	<0.052 j
Thallium	<0.044 j
Lead	<0.050

Date of Report: 07/31/13
Date Received: 06/19/13
Project: Crowley 8th Ave Terminals, Inc. 101.00205.00030, F&BI 306316
Date Extracted: 07/09/13
Date Analyzed: 07/10/13

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Total Mercury
EMW-10D-1.0' 306316-01	0.025
EMW-10D-5.0' 306316-03	0.029
EMW-10D-10.0' 306316-05	0.045
EMW-10D-15.0' 306316-07	0.014
EMW-10D-35.0' 306316-11	0.0062
EB-16-2.5' 306316-14	0.019
EB-16-5.0' 306316-15	0.0049
EB-16-10.0' 306316-17	0.019
EMW-10S-5.0' 306316-26	0.016
Method Blank	<0.002

Date of Report: 07/31/13
Date Received: 06/19/13
Project: Crowley 8th Ave Terminals, Inc. 101.00205.00030, F&BI 306316

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 306316-05 (Matrix Spike) Silica Gel

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	500	13	106	108	64-133	2

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	500	135	58-147

Date of Report: 07/31/13
Date Received: 06/19/13
Project: Crowley 8th Ave Terminals, Inc. 101.00205.00030, F&BI 306316

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 306316-13 (Matrix Spike) Silica Gel

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	500	<12	98	95	64-133	3

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	500	97	58-147

Date of Report: 07/31/13
Date Received: 06/19/13
Project: Crowley 8th Ave Terminals, Inc. 101.00205.00030, F&BI 306316

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 306269-03 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	mg/kg (ppm)	2.5	<0.02	27	28	10-56	4
Chloromethane	mg/kg (ppm)	2.5	<0.026	56	59	10-90	5
Vinyl chloride	mg/kg (ppm)	2.5	<0.016	58	61	10-91	5
Bromomethane	mg/kg (ppm)	2.5	<0.034	82	90	10-110	9
Chloroethane	mg/kg (ppm)	2.5	<0.024	79	76	10-101	4
Trichlorofluoromethane	mg/kg (ppm)	2.5	<0.02	70	71	10-95	1
Acetone	mg/kg (ppm)	12.5	<0.2	90	99	11-141	10
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.026	63	79	11-103	23 vo
Methylene chloride	mg/kg (ppm)	2.5	<0.054	99	98	14-128	1
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2.5	<0.013	97	103	17-134	6
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.024	86	89	13-112	3
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.017	88	91	23-115	3
2,2-Dichloropropane	mg/kg (ppm)	2.5	<0.026	91	100	18-117	9
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.022	91	92	25-120	1
Chloroform	mg/kg (ppm)	2.5	<0.017	91	93	29-117	2
2-Butanone (MEK)	mg/kg (ppm)	12.5	<0.14	98	105	20-133	7
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.016	91	94	22-124	3
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.022	94	100	27-112	6
1,1-Dichloropropene	mg/kg (ppm)	2.5	<0.024	87	91	26-107	4
Carbon tetrachloride	mg/kg (ppm)	2.5	<0.03	102	110	22-115	8
Benzene	mg/kg (ppm)	2.5	<0.014	88	91	26-114	3
Trichloroethene	mg/kg (ppm)	2.5	<0.034	91	93	30-112	2
1,2-Dichloropropane	mg/kg (ppm)	2.5	<0.034	94	98	31-119	4
Bromodichloromethane	mg/kg (ppm)	2.5	<0.024	100	105	31-131	5
Dibromomethane	mg/kg (ppm)	2.5	<0.022	97	101	27-124	4
4-Methyl-2-pentanone	mg/kg (ppm)	12.5	<0.14	103	109	16-147	6
cis-1,3-Dichloropropene	mg/kg (ppm)	2.5	<0.022	106	116	28-137	9
Toluene	mg/kg (ppm)	2.5	<0.017	89	90	34-112	1
trans-1,3-Dichloropropene	mg/kg (ppm)	2.5	<0.015	96	104	30-136	8
1,1,2-Trichloroethane	mg/kg (ppm)	2.5	<0.014	96	99	32-126	3
2-Hexanone	mg/kg (ppm)	12.5	<0.096	104	110	17-147	6
1,3-Dichloropropane	mg/kg (ppm)	2.5	<0.02	95	98	29-125	3
Tetrachloroethene	mg/kg (ppm)	2.5	<0.026	90	91	27-110	1
Dibromochloromethane	mg/kg (ppm)	2.5	<0.026	100	105	32-143	5
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2.5	<0.03	113	120	32-126	6
Chlorobenzene	mg/kg (ppm)	2.5	<0.014	91	93	37-113	2
Ethylbenzene	mg/kg (ppm)	2.5	<0.013	91	92	38-111	1
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	2.5	<0.028	110	116	35-126	5
m,p-Xylene	mg/kg (ppm)	5	<0.03	93	94	38-112	1
o-Xylene	mg/kg (ppm)	2.5	<0.034	91	93	38-113	2
Styrene	mg/kg (ppm)	2.5	<0.022	95	96	38-118	1
Isopropylbenzene	mg/kg (ppm)	2.5	<0.019	92	93	37-114	1
Bromoform	mg/kg (ppm)	2.5	<0.034	102	106	18-155	4
n-Propylbenzene	mg/kg (ppm)	2.5	<0.017	95	96	36-114	1
Bromobenzene	mg/kg (ppm)	2.5	<0.012	94	94	40-115	0
1,3,5-Trimethylbenzene	mg/kg (ppm)	2.5	<0.011	96	97	35-116	1
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	2.5	<0.036	102	105	33-128	3
1,2,3-Trichloropropane	mg/kg (ppm)	2.5	<0.022	95	97	33-123	2
2-Chlorotoluene	mg/kg (ppm)	2.5	<0.016	92	93	39-110	1
4-Chlorotoluene	mg/kg (ppm)	2.5	<0.019	94	95	39-111	1
tert-Butylbenzene	mg/kg (ppm)	2.5	<0.022	95	96	36-116	1
1,2,4-Trimethylbenzene	mg/kg (ppm)	2.5	<0.016	95	96	35-116	1
sec-Butylbenzene	mg/kg (ppm)	2.5	<0.015	95	96	33-118	1
p-Isopropyltoluene	mg/kg (ppm)	2.5	<0.012	95	96	32-119	1
1,3-Dichlorobenzene	mg/kg (ppm)	2.5	<0.02	93	94	38-111	1
1,4-Dichlorobenzene	mg/kg (ppm)	2.5	<0.032	92	93	39-109	1
1,2-Dichlorobenzene	mg/kg (ppm)	2.5	<0.016	91	92	40-111	1
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	2.5	<0.08	97	105	34-134	8
1,2,4-Trichlorobenzene	mg/kg (ppm)	2.5	<0.036	85	87	31-117	2
Hexachlorobutadiene	mg/kg (ppm)	2.5	<0.04	81	82	25-122	1
Naphthalene	mg/kg (ppm)	2.5	<0.024	89	94	39-120	5
1,2,3-Trichlorobenzene	mg/kg (ppm)	2.5	<0.019	79	82	35-117	4

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Dichlorodifluoromethane	mg/kg (ppm)	2.5	70	10-76
Chloromethane	mg/kg (ppm)	2.5	83	34-98
Vinyl chloride	mg/kg (ppm)	2.5	90	42-107
Bromomethane	mg/kg (ppm)	2.5	110	46-113
Chloroethane	mg/kg (ppm)	2.5	97	47-115
Trichlorofluoromethane	mg/kg (ppm)	2.5	102	53-112
Acetone	mg/kg (ppm)	12.5	103	39-147
1,1-Dichloroethene	mg/kg (ppm)	2.5	98	65-110
Methylene chloride	mg/kg (ppm)	2.5	106	62-119
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2.5	113	72-122
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	105	71-113
1,1-Dichloroethane	mg/kg (ppm)	2.5	105	76-109
2,2-Dichloropropane	mg/kg (ppm)	2.5	125	64-151
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	104	77-110
Chloroform	mg/kg (ppm)	2.5	103	78-108
2-Butanone (MEK)	mg/kg (ppm)	12.5	106	60-121
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	105	80-109
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	119 vo	72-116
1,1-Dichloropropene	mg/kg (ppm)	2.5	103	77-108
Carbon tetrachloride	mg/kg (ppm)	2.5	142 vo	67-123
Benzene	mg/kg (ppm)	2.5	101	75-107
Trichloroethene	mg/kg (ppm)	2.5	104	72-107
1,2-Dichloropropane	mg/kg (ppm)	2.5	107	78-111
Bromodichloromethane	mg/kg (ppm)	2.5	123	75-126
Dibromomethane	mg/kg (ppm)	2.5	111	80-111
4-Methyl-2-pentanone	mg/kg (ppm)	12.5	115	80-128
cis-1,3-Dichloropropene	mg/kg (ppm)	2.5	130	71-138
Toluene	mg/kg (ppm)	2.5	98	79-112
trans-1,3-Dichloropropene	mg/kg (ppm)	2.5	116	77-135
1,1,2-Trichloroethane	mg/kg (ppm)	2.5	105	84-115
2-Hexanone	mg/kg (ppm)	12.5	109	71-129
1,3-Dichloropropane	mg/kg (ppm)	2.5	103	82-113
Tetrachloroethene	mg/kg (ppm)	2.5	100	77-110
Dibromochloromethane	mg/kg (ppm)	2.5	122	64-152
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2.5	133 vo	83-116
Chlorobenzene	mg/kg (ppm)	2.5	100	82-113
Ethylbenzene	mg/kg (ppm)	2.5	100	81-114
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	2.5	138 vo	76-125
m,p-Xylene	mg/kg (ppm)	5	103	82-115
o-Xylene	mg/kg (ppm)	2.5	101	81-116
Styrene	mg/kg (ppm)	2.5	104	81-118
Isopropylbenzene	mg/kg (ppm)	2.5	102	81-117
Bromoform	mg/kg (ppm)	2.5	128	50-174
n-Propylbenzene	mg/kg (ppm)	2.5	103	82-116
Bromobenzene	mg/kg (ppm)	2.5	101	82-118
1,3,5-Trimethylbenzene	mg/kg (ppm)	2.5	105	83-120
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	2.5	112	83-125
1,2,3-Trichloropropane	mg/kg (ppm)	2.5	105	79-116
2-Chlorotoluene	mg/kg (ppm)	2.5	100	80-114
4-Chlorotoluene	mg/kg (ppm)	2.5	102	82-114
tert-Butylbenzene	mg/kg (ppm)	2.5	104	82-116
1,2,4-Trimethylbenzene	mg/kg (ppm)	2.5	104	82-116
sec-Butylbenzene	mg/kg (ppm)	2.5	104	81-123
p-Isopropyltoluene	mg/kg (ppm)	2.5	104	82-124
1,3-Dichlorobenzene	mg/kg (ppm)	2.5	101	80-118
1,4-Dichlorobenzene	mg/kg (ppm)	2.5	100	79-117
1,2-Dichlorobenzene	mg/kg (ppm)	2.5	100	80-118
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	2.5	125	71-131
1,2,4-Trichlorobenzene	mg/kg (ppm)	2.5	94	75-122
Hexachlorobutadiene	mg/kg (ppm)	2.5	92	74-130
Naphthalene	mg/kg (ppm)	2.5	101	83-128
1,2,3-Trichlorobenzene	mg/kg (ppm)	2.5	89	80-126

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	ug/L (ppb)	50	111	111	54-149	0
Chloromethane	ug/L (ppb)	50	101	102	67-133	1
Vinyl chloride	ug/L (ppb)	50	102	102	73-132	0
Bromomethane	ug/L (ppb)	50	653 vo	614 vo	69-123	6
Chloroethane	ug/L (ppb)	50	183 vo	184 vo	68-126	1
Trichlorofluoromethane	ug/L (ppb)	50	137 vo	134 vo	70-132	2
Acetone	ug/L (ppb)	250	104	101	44-145	3
1,1-Dichloroethene	ug/L (ppb)	50	105	105	75-119	0
Methylene chloride	ug/L (ppb)	50	100	100	63-132	0
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	106	106	70-122	0
trans-1,2-Dichloroethene	ug/L (ppb)	50	101	102	76-118	1
1,1-Dichloroethane	ug/L (ppb)	50	99	100	80-116	1
2,2-Dichloropropane	ug/L (ppb)	50	129	130	62-141	1
cis-1,2-Dichloroethene	ug/L (ppb)	50	99	98	81-111	1
Chloroform	ug/L (ppb)	50	99	99	81-109	0
2-Butanone (MEK)	ug/L (ppb)	250	103	101	53-140	2
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	99	99	79-109	0
1,1,1-Trichloroethane	ug/L (ppb)	50	117 vo	116	80-116	1
1,1-Dichloropropene	ug/L (ppb)	50	98	98	78-112	0
Carbon tetrachloride	ug/L (ppb)	50	142 vo	145 vo	72-128	2
Benzene	ug/L (ppb)	50	96	96	81-108	0
Trichloroethene	ug/L (ppb)	50	99	98	77-108	1
1,2-Dichloropropane	ug/L (ppb)	50	101	101	82-109	0
Bromodichloromethane	ug/L (ppb)	50	120	121 vo	76-120	1
Dibromomethane	ug/L (ppb)	50	107	106	80-110	1
4-Methyl-2-pentanone	ug/L (ppb)	250	114	111	59-142	3
cis-1,3-Dichloropropene	ug/L (ppb)	50	125	124	76-128	1
Toluene	ug/L (ppb)	50	93	93	83-108	0
trans-1,3-Dichloropropene	ug/L (ppb)	50	111	113	76-128	2
1,1,2-Trichloroethane	ug/L (ppb)	50	101	101	82-110	0
2-Hexanone	ug/L (ppb)	250	107	106	53-145	1
1,3-Dichloropropane	ug/L (ppb)	50	99	99	83-110	0
Tetrachloroethene	ug/L (ppb)	50	94	95	78-109	1
Dibromochloromethane	ug/L (ppb)	50	121	123	63-140	2
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	126 vo	128 vo	85-113	2
Chlorobenzene	ug/L (ppb)	50	94	95	84-108	1
Ethylbenzene	ug/L (ppb)	50	94	94	84-110	0
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	132 vo	133 vo	76-125	1
m,p-Xylene	ug/L (ppb)	100	96	97	84-112	1
o-Xylene	ug/L (ppb)	50	95	95	82-113	0
Styrene	ug/L (ppb)	50	97	97	84-116	0
Isopropylbenzene	ug/L (ppb)	50	95	95	81-122	0
Bromoform	ug/L (ppb)	50	130	133	40-161	2
n-Propylbenzene	ug/L (ppb)	50	96	97	81-115	1
Bromobenzene	ug/L (ppb)	50	96	96	80-113	0
1,3,5-Trimethylbenzene	ug/L (ppb)	50	96	98	83-117	2
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	107	108	79-118	1
1,2,3-Trichloropropane	ug/L (ppb)	50	99	101	74-116	2
2-Chlorotoluene	ug/L (ppb)	50	93	94	79-112	1
4-Chlorotoluene	ug/L (ppb)	50	95	96	81-113	1
tert-Butylbenzene	ug/L (ppb)	50	94	96	81-119	2
1,2,4-Trimethylbenzene	ug/L (ppb)	50	95	97	83-116	2
sec-Butylbenzene	ug/L (ppb)	50	95	96	83-116	1
p-Isopropyltoluene	ug/L (ppb)	50	95	96	82-119	1
1,3-Dichlorobenzene	ug/L (ppb)	50	93	95	83-111	2
1,4-Dichlorobenzene	ug/L (ppb)	50	92	95	82-109	3
1,2-Dichlorobenzene	ug/L (ppb)	50	92	93	83-111	1
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	120	122	62-133	2
1,2,4-Trichlorobenzene	ug/L (ppb)	50	83	84	77-117	1
Hexachlorobutadiene	ug/L (ppb)	50	79	78	74-118	1
Naphthalene	ug/L (ppb)	50	91	93	75-131	2
1,2,3-Trichlorobenzene	ug/L (ppb)	50	79 vo	81 vo	82-115	2

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270D

Laboratory Code: 306316-17 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Phenol	mg/kg (ppm)	1.7	<0.0054	62	68	50-150	9
Bis(2-chloroethyl) ether	mg/kg (ppm)	1.7	<0.0016	56	62	50-150	10
2-Chlorophenol	mg/kg (ppm)	1.7	<0.0062	61	67	50-150	9
1,3-Dichlorobenzene	mg/kg (ppm)	1.7	<0.0026	47 vo	58	50-150	21 vo
1,4-Dichlorobenzene	mg/kg (ppm)	1.7	<0.0024	48 vo	58	50-150	19
1,2-Dichlorobenzene	mg/kg (ppm)	1.7	<0.004	51	59	50-150	15
Benzyl alcohol	mg/kg (ppm)	1.7	<0.005	62	67	50-150	8
Bis(2-chloroisopropyl) ether	mg/kg (ppm)	1.7	<0.0016	54	61	50-150	12
2-Methylphenol	mg/kg (ppm)	1.7	<0.0064	64	69	50-150	8
Hexachloroethane	mg/kg (ppm)	1.7	<0.0034	37 vo	39 vo	50-150	5
N-Nitroso-di-n-propylamine	mg/kg (ppm)	1.7	<0.003	62	63	50-150	2
3-Methylphenol + 4-Methylphenol	mg/kg (ppm)	1.7	<0.014	63	67	50-150	6
Nitrobenzene	mg/kg (ppm)	1.7	<0.0026	57	62	50-150	8
Isophorone	mg/kg (ppm)	1.7	<0.0012	62	67	50-150	8
2-Nitrophenol	mg/kg (ppm)	1.7	<0.0082	63	68	50-150	8
2,4-Dimethylphenol	mg/kg (ppm)	1.7	<0.019	62	68	50-150	9
Benzoic acid	mg/kg (ppm)	2.5	<0.055	51	58	50-150	13
Bis(2-chloroethoxy)methane	mg/kg (ppm)	1.7	<0.0014	58	63	50-150	8
2,4-Dichlorophenol	mg/kg (ppm)	1.7	<0.0058	65	72	50-150	10
1,2,4-Trichlorobenzene	mg/kg (ppm)	1.7	<0.0034	57	65	50-150	13
Hexachlorobutadiene	mg/kg (ppm)	1.7	<0.002	56	64	50-150	13
4-Chloroaniline	mg/kg (ppm)	3.3	<0.18	28 vo	39 vo	50-150	33 vo
4-Chloro-3-methylphenol	mg/kg (ppm)	1.7	<0.0044	69	78	50-150	12
2-Methylnaphthalene	mg/kg (ppm)	1.7	<0.001	59	65	50-150	10
Hexachlorocyclopentadiene	mg/kg (ppm)	1.7	<0.0022	7 vo	2 vo	50-150	111 vo
2,4,6-Trichlorophenol	mg/kg (ppm)	1.7	<0.008	68	73	50-150	7
2,4,5-Trichlorophenol	mg/kg (ppm)	1.7	<0.0096	71	77	50-150	8
2-Chloronaphthalene	mg/kg (ppm)	1.7	<0.0014	63	67	50-150	6
2-Nitroaniline	mg/kg (ppm)	1.7	<0.0026	68	76	50-150	11
Dimethyl phthalate	mg/kg (ppm)	1.7	<0.0012	69	76	50-150	10
2,6-Dinitrotoluene	mg/kg (ppm)	1.7	<0.014	72	79	50-150	9
3-Nitroaniline	mg/kg (ppm)	3.3	<0.001	35 vo	46 vo	50-150	27 vo
2,4-Dinitrophenol	mg/kg (ppm)	1.7	<0.018	34 vo	19 vo	50-150	57 vo
Dibenzofuran	mg/kg (ppm)	1.7	<0.004	66	72	50-150	9
2,4-Dinitrotoluene	mg/kg (ppm)	1.7	<0.0012	76	81	50-150	6
4-Nitrophenol	mg/kg (ppm)	1.7	<0.0016	58	66	50-150	13
Diethyl phthalate	mg/kg (ppm)	1.7	<0.001	70	76	50-150	8
4-Chlorophenyl phenyl ether	mg/kg (ppm)	1.7	<0.018	65	73	50-150	12
N-Nitrosodiphenylamine	mg/kg (ppm)	1.7	<0.0016	68	73	50-150	7
4-Nitroaniline	mg/kg (ppm)	3.3	<0.001	41 vo	54	50-150	27 vo
4,6-Dinitro-2-methylphenol	mg/kg (ppm)	1.7	<0.0062	41 vo	25 vo	50-150	48 vo
4-Bromophenyl phenyl ether	mg/kg (ppm)	1.7	0.0021	72	78	50-150	8
Hexachlorobenzene	mg/kg (ppm)	1.7	<0.0012	72	77	50-150	7
Pentachlorophenol	mg/kg (ppm)	1.7	<0.002	74	75	50-150	1
Carbazole	mg/kg (ppm)	1.7	<0.0000000	68	66	50-150	3
Di-n-butyl phthalate	mg/kg (ppm)	1.7	0.0037	68	70	50-150	3
Benzyl butyl phthalate	mg/kg (ppm)	1.7	0.0013	85	87	50-150	2
Bis(2-ethylhexyl) phthalate	mg/kg (ppm)	1.7	0.0017	81	84	50-150	4
Di-n-octyl phthalate	mg/kg (ppm)	1.7	<0.001	82	91	50-150	10

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270D

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Phenol	mg/kg (ppm)	1.7	78	82	51-119	5
Bis(2-chloroethyl) ether	mg/kg (ppm)	1.7	77	79	60-112	3
2-Chlorophenol	mg/kg (ppm)	1.7	80	82	59-114	2
1,3-Dichlorobenzene	mg/kg (ppm)	1.7	77	76	62-113	1
1,4-Dichlorobenzene	mg/kg (ppm)	1.7	77	76	61-114	1
1,2-Dichlorobenzene	mg/kg (ppm)	1.7	78	77	61-113	1
Benzyl alcohol	mg/kg (ppm)	1.7	82	86	50-119	5
Bis(2-chloroisopropyl) ether	mg/kg (ppm)	1.7	75	76	59-113	1
2-Methylphenol	mg/kg (ppm)	1.7	79	80	58-115	1
Hexachloroethane	mg/kg (ppm)	1.7	75	73	63-114	3
N-Nitroso-di-n-propylamine	mg/kg (ppm)	1.7	81	86	62-114	6
3-Methylphenol + 4-Methylphenol	mg/kg (ppm)	1.7	80	81	54-120	1
Nitrobenzene	mg/kg (ppm)	1.7	77	80	59-114	4
Isophorone	mg/kg (ppm)	1.7	81	83	61-113	2
2-Nitrophenol	mg/kg (ppm)	1.7	85	89	59-114	5
2,4-Dimethylphenol	mg/kg (ppm)	1.7	64	59	54-107	8
Benzoic acid	mg/kg (ppm)	2.5	95	103	43-150	8
Bis(2-chloroethoxy)methane	mg/kg (ppm)	1.7	78	80	60-114	3
2,4-Dichlorophenol	mg/kg (ppm)	1.7	84	86	57-118	2
1,2,4-Trichlorobenzene	mg/kg (ppm)	1.7	79	81	56-112	2
Hexachlorobutadiene	mg/kg (ppm)	1.7	80	81	60-116	1
4-Chloroaniline	mg/kg (ppm)	3.3	52	61	10-126	16
4-Chloro-3-methylphenol	mg/kg (ppm)	1.7	84	88	59-115	5
2-Methylnaphthalene	mg/kg (ppm)	1.7	78	80	60-115	3
Hexachlorocyclopentadiene	mg/kg (ppm)	1.7	92	93	41-107	1
2,4,6-Trichlorophenol	mg/kg (ppm)	1.7	87	94	47-119	8
2,4,5-Trichlorophenol	mg/kg (ppm)	1.7	87	88	61-121	1
2-Chloronaphthalene	mg/kg (ppm)	1.7	84	87	58-114	4
2-Nitroaniline	mg/kg (ppm)	1.7	90	92	55-119	2
Dimethyl phthalate	mg/kg (ppm)	1.7	88	91	58-116	3
2,6-Dinitrotoluene	mg/kg (ppm)	1.7	92	95	57-119	3
3-Nitroaniline	mg/kg (ppm)	3.3	76	77	10-143	1
2,4-Dinitrophenol	mg/kg (ppm)	1.7	59	75	40-122	24 vo
Dibenzofuran	mg/kg (ppm)	1.7	83	86	56-115	4
2,4-Dinitrotoluene	mg/kg (ppm)	1.7	95	98	53-126	3
4-Nitrophenol	mg/kg (ppm)	1.7	87	90	40-124	3
Diethyl phthalate	mg/kg (ppm)	1.7	87	89	57-116	2
4-Chlorophenyl phenyl ether	mg/kg (ppm)	1.7	84	86	54-119	2
N-Nitrosodiphenylamine	mg/kg (ppm)	1.7	81	83	54-113	2
4-Nitroaniline	mg/kg (ppm)	3.3	85	92	47-109	8
4,6-Dinitro-2-methylphenol	mg/kg (ppm)	1.7	61	73	57-108	18
4-Bromophenyl phenyl ether	mg/kg (ppm)	1.7	85	87	56-116	2
Hexachlorobenzene	mg/kg (ppm)	1.7	86	88	57-115	2
Pentachlorophenol	mg/kg (ppm)	1.7	88	93	45-123	6
Carbazole	mg/kg (ppm)	1.7	82	86	57-116	5
Di-n-butyl phthalate	mg/kg (ppm)	1.7	82	81	56-118	1
Benzyl butyl phthalate	mg/kg (ppm)	1.7	95	98	56-122	3
Bis(2-ethylhexyl) phthalate	mg/kg (ppm)	1.7	91	93	56-125	2
Di-n-octyl phthalate	mg/kg (ppm)	1.7	93	92	58-120	1

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR PNA'S BY EPA METHOD 8270D SIM

Laboratory Code: 306316-23 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.17	74	66	44-129	11
Acenaphthylene	mg/kg (ppm)	0.17	84	76	52-121	10
Acenaphthene	mg/kg (ppm)	0.17	190 vo	98	51-123	64 vo
Fluorene	mg/kg (ppm)	0.17	268 vo	88	37-137	101 vo
Phenanthrene	mg/kg (ppm)	0.17	1387 vo	124	45-124	167 vo
Anthracene	mg/kg (ppm)	0.17	264 vo	78	32-124	109 vo
Fluoranthene	mg/kg (ppm)	0.17	1165 vo	119	50-125	163 vo
Pyrene	mg/kg (ppm)	0.17	1242 vo	127	41-135	163 vo
Benz(a)anthracene	mg/kg (ppm)	0.17	410 vo	83	23-144	133 vo
Chrysene	mg/kg (ppm)	0.17	308 vo	87	45-122	112 vo
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	351 vo	80	31-144	126 vo
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	142 vo	75	45-130	62 vo
Benzo(a)pyrene	mg/kg (ppm)	0.17	268 vo	75	39-128	113 vo
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	169 vo	78	28-146	74 vo
Dibenz(a,vo)anthracene	mg/kg (ppm)	0.17	87	75	46-129	15
Benzo(g,vo,i)perylene	mg/kg (ppm)	0.17	152 vo	75	37-133	68 vo

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.17	78	80	58-121	2
Acenaphthylene	mg/kg (ppm)	0.17	83	85	54-121	3
Acenaphthene	mg/kg (ppm)	0.17	81	83	54-123	3
Fluorene	mg/kg (ppm)	0.17	86	88	56-127	3
Phenanthrene	mg/kg (ppm)	0.17	84	88	55-122	5
Anthracene	mg/kg (ppm)	0.17	77	86	50-120	11
Fluoranthene	mg/kg (ppm)	0.17	81	96	54-129	16
Pyrene	mg/kg (ppm)	0.17	93	92	53-127	1
Benz(a)anthracene	mg/kg (ppm)	0.17	82	85	51-115	4
Chrysene	mg/kg (ppm)	0.17	86	92	55-129	6
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	80	88	56-123	10
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	78	80	54-131	3
Benzo(a)pyrene	mg/kg (ppm)	0.17	70	75	51-118	7
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	82	91	49-148	11
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	78	85	50-141	9
Benzo(g,h,i)perylene	mg/kg (ppm)	0.17	77	85	52-131	10

Date of Report: 07/31/13
Date Received: 06/19/13
Project: Crowley 8th Ave Terminals, Inc. 101.00205.00030, F&BI 306316

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR PNA'S BY EPA METHOD 8270D SIM

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.17	82	83	58-121	1
Acenaphthylene	mg/kg (ppm)	0.17	91	92	54-121	1
Acenaphthene	mg/kg (ppm)	0.17	90	91	54-123	1
Fluorene	mg/kg (ppm)	0.17	93	94	56-127	1
Phenanthrene	mg/kg (ppm)	0.17	90	91	55-122	1
Anthracene	mg/kg (ppm)	0.17	86	86	50-120	0
Fluoranthene	mg/kg (ppm)	0.17	81	95	54-129	16
Pyrene	mg/kg (ppm)	0.17	96	97	53-127	1
Benz(a)anthracene	mg/kg (ppm)	0.17	92	93	51-115	1
Chrysene	mg/kg (ppm)	0.17	97	96	55-129	1
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	88	94	56-123	7
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	86	86	54-131	0
Benzo(a)pyrene	mg/kg (ppm)	0.17	82	83	51-118	1
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	103	103	49-148	0
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	92	94	50-141	2
Benzo(g,h,i)perylene	mg/kg (ppm)	0.17	89	89	52-131	0

Date of Report: 07/31/13
Date Received: 06/19/13
Project: Crowley 8th Ave Terminals, Inc. 101.00205.00030, F&BI 306316

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS AS AROCLOR 1016/1260 BY EPA METHOD 8082A

Laboratory Code: 306316-15 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Control Limits	RPD (Limit 20)
Aroclor 1016	mg/kg (ppm)	0.8	<0.033	102	108	50-150	6
Aroclor 1260	mg/kg (ppm)	0.8	<0.033	92	97	50-150	5

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	Acceptance Criteria
Aroclor 1016	mg/kg (ppm)	0.8	90	70-130
Aroclor 1260	mg/kg (ppm)	0.8	99	70-130

Date of Report: 07/31/13
Date Received: 06/19/13
Project: Crowley 8th Ave Terminals, Inc. 101.00205.00030, F&BI 306316

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 306269-17 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Beryllium	mg/kg (ppm)	5	0.102	108	108	67-138	0
Chromium	mg/kg (ppm)	50	3.82	98	99	57-128	1
Nickel	mg/kg (ppm)	25	3.84	95	97	69-112	2
Copper	mg/kg (ppm)	50	6.46	93	93	57-120	0
Zinc	mg/kg (ppm)	50	12.8	92 b	95 b	55-129	3 b
Arsenic	mg/kg (ppm)	10	0.974	101	104	70-118	3
Selenium	mg/kg (ppm)	5	<0.92	91	93	64-117	2
Silver	mg/kg (ppm)	10	0.0860	100	102	73-122	2
Cadmium	mg/kg (ppm)	10	<0.2	102	102	83-116	0
Antimony	mg/kg (ppm)	20	0.193	92	93	54-116	1
Barium	mg/kg (ppm)	50	9.49	104	102	60-141	2
Thallium	mg/kg (ppm)	5	0.0660	91	92	68-121	1
Lead	mg/kg (ppm)	50	0.934	99	98	59-148	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Beryllium	mg/kg (ppm)	5	105	69-146
Chromium	mg/kg (ppm)	50	99	78-121
Nickel	mg/kg (ppm)	25	100	82-122
Copper	mg/kg (ppm)	50	97	82-119
Zinc	mg/kg (ppm)	50	102	81-120
Arsenic	mg/kg (ppm)	10	101	83-113
Selenium	mg/kg (ppm)	5	102	84-115
Silver	mg/kg (ppm)	10	99	81-116
Cadmium	mg/kg (ppm)	10	101	54-114
Antimony	mg/kg (ppm)	20	95	69-114
Barium	mg/kg (ppm)	50	96	85-116
Thallium	mg/kg (ppm)	5	90	77-123
Lead	mg/kg (ppm)	50	96	80-120

Date of Report: 07/31/13
Date Received: 06/19/13
Project: Crowley 8th Ave Terminals, Inc. 101.00205.00030, F&BI 306316

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Laboratory Code: 306269-17 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Mercury	mg/kg (ppm)	0.125	0.0056	97	98	62-140	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Mercury	mg/kg (ppm)	0.125	82	63-131

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

306316

SAMPLE CHAIN OF CUSTODY

KJ 06/19/13 VS4/BI4/VI

Page # 1 of 3

Send Report To Mike Staton

Company SLR International

Address 2211B 20th Ave SE, G202

City, State, ZIP Bothell, WA 98021

Phone # 425-402-8800 Fax # 425-402-8488

SAMPLERS (signature)

PROJECT NAME/NO. Crowley 8th Ave Terminal, inc 101.00205.00030

PO# 101.00205.00030

REMARKS NWTPH-DX after silica gel clean-up.

TURNAROUND TIME
- [x] Standard (2 Weeks)
- [ ] RUSH
- Rush charges authorized by

SAMPLE DISPOSAL
- [ ] Dispose after 30 days
- [ ] Return samples
- [x] Will call with instructions

V=added per Mike Staton GP 6/25/13

✓=added per Mike Staton GP 7/9/13
*=extract & hold per Mike Staton GP 7/15/13
⊛=analyze per Mike Staton GP 7/15/13

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Metals (priority pollutant 5 Be)	PAHs by 8270-SIM	PCBs by 8082	Hex Cr. by 7196A	Mercury by 7471B		Notes
EMW-10D-1.0'	01A-F	6-19-13	0825	Soil	6	X			X	X		X	X	X		X		
EMW-10D-2.5'	02		0850															Archive
EMW-~~D~~10D-5.0'	03		0905			X			X	X		X	X	X		X		
EMW-10D-7.5'	04		0930															Archive
EMW-10D-10.0'	05		0940			X			X	X		X	X	X		X		
EMW-10D-12.5'	06		1025															Archive
EMW-10D-15.0'	07		1035			X			X	X		X	X	X		X		
EMW-10D-20.0'	08		1045															Archive
EMW-10D-25.0	09		1100															
EMW-10D-30.0	10	↓	1110	↓	↓													↓

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Chris Lee	SLR	6/19/13	1648
Received by:	Nhan Phan	FeBI	6/19/13	1648
Relinquished by:				
Received by:		Samples received at 4		

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

306316

SAMPLE CHAIN OF CUSTODY

KJ 06/19/13 rs4/BI4/V1

Page # 2 of 3

Send Report To Mike Staton
Company SLR International
Address 20118 20th Ave, G202
City, State, ZIP Bothell, WA 98021
Phone #425-402-8800 Fax #425-402-8488

SAMPLERS (signature)

PROJECT NAME/NO.: Crowley 8th Ave Terminal, Inc
101.00205.00030

PO#: 101.00205-00030

REMARKS: NWTPH-Dx after Silica Gel Clean-up

TURNAROUND TIME
- [x] Standard (2 Weeks)
- [ ] RUSH
Rush charges authorized by

SAMPLE DISPOSAL
- [ ] Dispose after 30 days
- [ ] Return samples
- [x] Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Metals (priority pollutant 4 Br.)	PAHs by 8270-SIM	PCBs by 8082	Hex. Cr. by 7196A	Mercury by 1631E		Notes
EMW-~~50~~10D-350'	11A-F	6-19-13	1120	Soil	6	X			X	X		X	X	X		X		
EMW-10D-40.0'	12		1130															Archive
EMW-10D-50.0'	13		1145			✓							*					
EB-16-2.5'	14		1330			X			X	X		X	X	X		X		
EB-16-5.0'	15		1345			X			X	X		X	X	X		X		
EB-16-7.5'	16		1355															Archive
EB-16-10.0'	17		1410			X			X	X		X	X	X		X		
EB-16-12.5'	18		1425															Archive
EB-16-15.0'	19		1430										*					
EB-16-20.0'	20		1440															

ANALYSES REQUESTED

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Cities Lee	SLR	6/19/13	1648
Received by:		Nhan Phan	FEBI	6/19/13	1648
Relinquished by:			Samples received at		4 °C
Received by:					

306316

SAMPLE CHAIN OF CUSTODY

KJ 06/19/13

VS4/BI4/V1

Page # 3 of 3

Send Report To Mike Staton
Company SLR International
Address 20118 20th Ave, G202
City, State, ZIP Bothell, WA 98021
Phone #425-402-8800 Fax #425-402-8488

SAMPLERS (signature)

PROJECT NAME/NO.: Crowley 8th Ave Terminal, Inc 101.00205.00030
PO#: 101.00205.00030

REMARKS: NWTPH-DX after Silica Gel Clean-up

TURNAROUND TIME
☒ Standard (2 Weeks)
☐ RUSH
Rush charges authorized by

SAMPLE DISPOSAL
☐ Dispose after 30 days
☐ Return samples
☒ Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by8260	SVOCs by 8270	HFS	Metals (primary pollutant 8)	PAHs by 8270-SIM	PCBs by 8082	Hex. Cr by 7196A	Mercury by 1631E		Notes
EB-16-25.0'	21A-B	6-19-13	1455	Soil	6								*					Archive
EB-16-30.0'	22		1500															
EB-16-35.0'	23		1515										*					
EB-16-40.0'	24		1520															
EB-16-44.0	25		1525										*					
EMW-105-5.0'	26	6/19/13	0910	Soil	6	X			X	X		X	X	X		X		
Trip blank	27A-B								✓									added in Lab

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FORMS\COC\COC.DOC

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		CHRIS LOTT	SLR	6/19/13	1648
Received by:		Nhan Phan	FEBI	6/19/13	1648
Relinquished by:					
Received by:					

Samples received at 4 °C

SGS ANALYTICAL PERSPECTIVES

7 August 2013

Mike Staton
SLR Consulting
22118 20th Ave SE
Suite G202
Bothell, WA 98021

Ph.: 425-402-8800
Email: mstaton@slrconsulting.com

Subject: Certificate of Results – Amended 7Aug13

Dear Mike;

Attached to this narrative are the analytical results you requested on the samples submitted for the determination of polychlorinated dibenzo-*p*-dioxins and dibenzofurans. The insert below summarizes the relevant information pertaining to your project. In particular, QC annotations bring to your attention specific analytical observations and assessments made during the sample handling and data interpretation phases. Results reported relate only to the items tested.

Project Information Summary	When applicable, see QC Annotations for details
Client Project No.	101.00205.00019 Crowley
AP Project #	**A5634**
Analytical Protocol	Method 8290
No. Samples Submitted	23
No. Samples Analyzed	21 (2 samples on hold)
No. Laboratory Method Blanks	1
No. OPRs / Batch CS3	1
No. Outstanding Samples	0
Date Received	18-Jun-2013
Condition Received	good
Temperature upon Receipt (C)	1
Extraction within Holding Time	yes
Analysis within Holding Time	yes
Data meet QA/QC Requirements	yes
Exceptions	none
Analytical Difficulties	none

ANALYTICAL PERSPECTIVES IS NOW PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.

SGS

QC Annotations:

1. Please see Appendix A & B attached for data qualifier/attribute and lab identifier descriptions which may be contained in the project.
2. The project has been amended so that the results are reported in pg/kg rather than pg/g.
3. The project has been amended on 22Jul13 so that the correct client ID for sample 14 is listed.
4. The project has been amended on 5Aug13 to include results from samples that the client removed from hold for analysis.
5. The project has been amended on 7Aug13 so that the correct client ID for sample 005 is listed.

Analytical Perspectives Certification IDs:

SOUTH CAROLINA	99054
ARKANSAS	88-0628
NEW JERSEY-NELAP SECONDARY	NC005
FLORIDA-NELAP PRIMARY	E87608
LOUISIANA	4024
NORTH CAROLINA	37783
WASHINGTON	C2027
NEW YORK	11988
VIRGINIA	460180
MINNESOTA	037-999-448
OREGON	pending
TEXAS	T104704484-10-1
PENNSYLVANIA-NELAP SECONDARY	68-01849

SGS Analytical Perspectives remains committed to serving you in the most effective manner. Should you have any questions or need additional information and technical support, please do not hesitate to contact us.

The management and staff of SGS Analytical Perspectives welcomes customer feedback, both positive and negative, as we continually improve our services. Please visit our web site at www.ultratrace.com and click on the 'Leave Your Feedback Here!' link on the Home Page. Thank you for choosing SGS Analytical Perspectives.

Sincerely,

Heather Distel

Heather Distel, Ph.D.
Senior Project Scientist/Team Lead

SGS

APPENDIX A: DATA QUALIFIERS / DATA ATTRIBUTES	
>	Indicates high recoveries. Shown with the numeric value at the top of the range.[1]
B	The analyte was found in the method blank, at a concentration that was at least 10% of the concentration in the sample.
C	Two or more congeners co-elute. In EDDs C denotes the lowest IUPAC congener in a co-elution group and additional co-eluters for the group are shown with the number of the lowest IUPAC co-eluter.
E	The reported concentration exceeds the calibration range (upper point of the calibration curve).
EMPC	Represents an Estimated Maximum Possible Concentration. EMPC's arise in cases where the signal/noise ratio is not sufficient for peak identification (the determined ion-abundance ratio is outside the allowed theoretical range), or where there is a co-eluting interference.
ETH	Indicates the presence of a diphenyl ether that appears to interfere with the quantitation of a furan. The reported concentration is the maximum.
H/h	If the standard recovery is below the method or SOP specified value "H" is assigned. If the obtained value is less than half the specified value "h" is assigned.[1]
J	Indicates that an analyte has a concentration below the reporting limit (lowest point of the calibration curve).
ND	Indicates a non-detect.
NR	Indicates a value that is not reportable.
PR	Due to interference, the associated congener is poorly resolved.
QI	Indicates the presence of a quantitative interference.
SI	Denotes "Single Ion Mode" and is utilized for PCBs where the secondary ion trace has a significantly elevated noise level due to background PFK. Responses for such peaks are calculated using an EMPC approach based solely on the primary ion area(s) and may be considered estimates.[1]
U	The analyte was not detected. The estimated detection limit (EDL) may be reported for this analyte.
V	The labeled standard recovery was found to be outside of the method control limits.
X	Indicates results reported from reinjection, refractionation, or repeat analyses.
APPENDIX B: LAB ID IDENTIFIERS	
AR	Indicates use of the archived portion of the sample extract.
CU	Indicates a sample that required additional clean-up prior to MS injection/processing.
D	Indicates a dilution of the sample extract. The number that follows the "D" indicates the dilution factor.
DE	Indicates a dilution performed with the addition of ES (extraction standard) solution.
DUP	Designation for a duplicate sample.
MS	Designation for a matrix spike.
MSD	Designation for a matrix spike duplicate.
RJ	Indicates a reinjection of the sample extract.
S	Indicates a sample split. The number that follows the "S" indicates the split factor.

[1]Denotes data qualifiers/attributes whose use will be phased out over time

Sample ID: Method Blank A5634

Method 8290A

Client Data		Sample Data		Laboratory Data			
Name:	SLR International Corporation	Matrix:	Solids	Lab Project ID:	A5634	Date Received:	n/a
Project ID:	101.00205.00019 Crowley	Weight/Volume:	0.0100 Kg	Lab Sample ID	MB1_11062_DF_SDS-RJ2	Date Extracted:	21-Jun-2013
Date Collected:	n/a	% Solids:	100.0 %	QC Batch No:	11062	Date Analyzed:	09-Jul-2013
		Split:	-	Dilution:	-	Time Analyzed:	17:40:35

Analyte	Conc. (pg/Kg)	DL (pg/Kg)	EMPC (pg/Kg)	Qualifiers	Standard	ES Recoveries	Qualifiers
2378-TCDD	ND	56.8			ES 2378-TCDD	95.8	
12378-PeCDD	ND	69.8			ES 12378-PeCDD	89	
123478-HxCDD	ND	67.2			ES 123478-HxCDD	86.1	
123678-HxCDD	ND	79.8			ES 123678-HxCDD	86.1	
123789-HxCDD	ND	69.4			ES 123789-HxCDD	88.4	
1234678-HpCDD	ND	83.7			ES 1234678-HpCDD	85.7	
OCDD	333			J	ES OCDD	78.6	
2378-TCDF	ND	47.1			ES 2378-TCDF	95.6	
12378-PeCDF	ND	51.7			ES 12378-PeCDF	73.9	
23478-PeCDF	ND	47.7			ES 23478-PeCDF	75.3	
123478-HxCDF	ND	43.5			ES 123478-HxCDF	79.1	
123678-HxCDF	ND	44.5			ES 123678-HxCDF	77.5	
234678-HxCDF	ND	41.8			ES 234678-HxCDF	84.8	
123789-HxCDF	ND	57.9			ES 123789-HxCDF	89.5	
1234678-HpCDF	ND	54			ES 1234678-HpCDF	88.1	
1234789-HpCDF	ND	76.7			ES 1234789-HpCDF	86	
OCDF	ND	158			ES OCDF	81.2	
Totals					**Standard**	**CS/AS Recoveries**	
					CS 37Cl-2378-TCDD	99.7	
Total TCDD	ND	56.8	ND		CS 12347-PeCDD	91.3	
Total PeCDD	ND	69.8	ND		CS 12346-PeCDF	73.8	
Total HxCDD	ND	71.9	ND		CS 123469-HxCDF	103	
Total HpCDD	128		128		CS 1234689-HpCDF	91.4	
					AS 1368-TCDD	104	
Total TCDF	ND	47.1	ND		AS 1368-TCDF	98.1	
Total PeCDF	ND	49.7	ND				
Total HxCDF	ND	46.7	ND				
Total HpCDF	ND	64.4	ND				
Total PCDD/Fs	**461**		**461**				
WHO-2005 TEQs							
TEQ: ND=0	0.0999		0.0999				
TEQ: ND=DL/2	95	94.9	95				
TEQ: ND=DL	190	190	190				

SGS ANALYTICAL PERSPECTIVES
2714 Exchange Drive
Wilmington, NC 28405 , USA
www.us.sgs.com
Tel: +1 910 794-1613; Toll-Free 866 846-8290; Fax: +1 910 794-3919

Sample ID: EB-28-1.0

Method 8290A

Client Data		Sample Data		Laboratory Data			
Name:	SLR International Corporation	Matrix:	Solids	Lab Project ID:	A5634	Date Received:	18-Jun-2013
Project ID:	101.00205.00019 Crowley	Weight/Volume:	0.0100 Kg	Lab Sample ID	A5634_11062_DF_001-RJ2	Date Extracted:	21-Jun-2013
Date Collected:	10-Jun-2013	% Solids:	93.3 %	QC Batch No:	11062	Date Analyzed:	09-Jul-2013
		Split:	-	Dilution:	-	Time Analyzed:	20:20:34

Analyte	Conc. (pg/Kg)	DL (pg/Kg)	EMPC (pg/Kg)	Qualifiers	Standard	ES Recoveries	Qualifiers
2378-TCDD	ND	110			ES 2378-TCDD	91.8	
12378-PeCDD	ND	153			ES 12378-PeCDD	85.4	
123478-HxCDD	ND	219			ES 123478-HxCDD	81.2	
123678-HxCDD	ND	230			ES 123678-HxCDD	83.9	
123789-HxCDD	ND	222			ES 123789-HxCDD	83.5	
1234678-HpCDD	1820			J	ES 1234678-HpCDD	93.8	
OCDD	17600				ES OCDD	94.3	
2378-TCDF	ND	87.2			ES 2378-TCDF	97.6	
12378-PeCDF	ND	124			ES 12378-PeCDF	88.4	
23478-PeCDF	ND	127			ES 23478-PeCDF	87.4	
123478-HxCDF	ND	140			ES 123478-HxCDF	85.7	
123678-HxCDF	ND	138			ES 123678-HxCDF	85.3	
234678-HxCDF	ND	146			ES 234678-HxCDF	84.8	
123789-HxCDF	ND	194			ES 123789-HxCDF	87.5	
1234678-HpCDF	271			J	ES 1234678-HpCDF	94.4	
1234789-HpCDF	ND	232			ES 1234789-HpCDF	98.9	
OCDF	511			J	ES OCDF	95	
Totals					**Standard**	**CS/AS Recoveries**	
					CS 37Cl-2378-TCDD	95	
Total TCDD	ND		317		CS 12347-PeCDD	85.6	
Total PeCDD	ND	153	ND		CS 12346-PeCDF	88.6	
Total HxCDD	256		256		CS 123469-HxCDF	99.6	
Total HpCDD	3880		3880		CS 1234689-HpCDF	100	
					AS 1368-TCDD	95.7	
Total TCDF	476		476		AS 1368-TCDF	64.4	
Total PeCDF	ND	125	ND				
Total HxCDF	257		257				
Total HpCDF	829		829				
Total PCDD/Fs	**23900**		**24200**				
WHO-2005 TEQs							
TEQ: ND=0	26.4		26.4				
TEQ: ND=DL/2	248	224	248				
TEQ: ND=DL	471	449	471				

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Sample ID: EB-28-5.0

Method 8290A

Client Data		Sample Data		Laboratory Data			
Name:	SLR International Corporation	Matrix:	Solids	Lab Project ID:	A5634	Date Received:	18-Jun-2013
Project ID:	101.00205.00019 Crowley	Weight/Volume:	0.0100 Kg	Lab Sample ID	A5634_11062_DF_002-RJ2	Date Extracted:	21-Jun-2013
Date Collected:	10-Jun-2013	% Solids:	81.1 %	QC Batch No:	11062	Date Analyzed:	09-Jul-2013
		Split:	-	Dilution:	-	Time Analyzed:	21:13:54

Analyte	Conc. (pg/Kg)	DL (pg/Kg)	EMPC (pg/Kg)	Qualifiers
2378-TCDD	EMPC		405	J
12378-PeCDD	2610			
123478-HxCDD	4850			
123678-HxCDD	20700			
123789-HxCDD	9000			
1234678-HpCDD	606000			
OCDD	7240000			
2378-TCDF	2890			
12378-PeCDF	2120			J
23478-PeCDF	5570			
123478-HxCDF	8150			
123678-HxCDF	4960			
234678-HxCDF	5360			
123789-HxCDF	334			J
1234678-HpCDF	93000			
1234789-HpCDF	6490			
OCDF	247000			
Totals				
Total TCDD	20800		21600	
Total PeCDD	28200		28700	
Total HxCDD	124000		124000	
Total HpCDD	1160000		1160000	
Total TCDF	36600		37700	
Total PeCDF	58200		58600	
Total HxCDF	118000		118000	
Total HpCDF	319000		319000	
Total PCDD/Fs	**9350000**		**9360000**	
WHO-2005 TEQs				
TEQ: ND=0	19300		19700	
TEQ: ND=DL/2	19300	224	19700	
TEQ: ND=DL	19400	448	19700	

Standard	ES Recoveries	Qualifiers
ES 2378-TCDD	88.5	
ES 12378-PeCDD	92.5	
ES 123478-HxCDD	77.9	
ES 123678-HxCDD	78.1	
ES 123789-HxCDD	77	
ES 1234678-HpCDD	84.5	
ES OCDD	77.3	
ES 2378-TCDF	95.6	
ES 12378-PeCDF	96.1	
ES 23478-PeCDF	94.2	
ES 123478-HxCDF	80.3	
ES 123678-HxCDF	77.4	
ES 234678-HxCDF	79.1	
ES 123789-HxCDF	81.5	
ES 1234678-HpCDF	83.7	
ES 1234789-HpCDF	88.8	
ES OCDF	80.1	

Standard	CS/AS Recoveries
CS 37Cl-2378-TCDD	89.2
CS 12347-PeCDD	92.4
CS 12346-PeCDF	90.9
CS 123469-HxCDF	90.5
CS 1234689-HpCDF	87.2
AS 1368-TCDD	86.6
AS 1368-TCDF	87.1

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Sample ID: EB-28-7.5

Method 8290A

Client Data		Sample Data		Laboratory Data			
Name:	SLR International Corporation	Matrix:	Solids	Lab Project ID:	A5634	Date Received:	18-Jun-2013
Project ID:	101.00205.00019 Crowley	Weight/Volume:	0.0101 Kg	Lab Sample ID	A5634_11062_DF_003-D5	Date Extracted:	21-Jun-2013
Date Collected:	10-Jun-2013	% Solids:	55.0 %	QC Batch No:	11062	Date Analyzed:	10-Jul-2013
		Split:	-	Dilution:	-	Time Analyzed:	12:36:12

Analyte	Conc. (pg/Kg)	DL (pg/Kg)	EMPC (pg/Kg)	Qualifiers	Standard	ES Recoveries	Qualifiers
2378-TCDD	ND	666			ES 2378-TCDD	91.4	
12378-PeCDD	ND	1150			ES 12378-PeCDD	82.4	
123478-HxCDD	ND	1410			ES 123478-HxCDD	85.2	
123678-HxCDD	ND	1470			ES 123678-HxCDD	81.9	
123789-HxCDD	ND	1510			ES 123789-HxCDD	78.2	
1234678-HpCDD	7340				ES 1234678-HpCDD	48.4	
OCDD	EMPC		16700		ES OCDD	22.6	V
2378-TCDF	EMPC		1250		ES 2378-TCDF	89.9	
12378-PeCDF	ND	1030			ES 12378-PeCDF	87.2	
23478-PeCDF	1930			J	ES 23478-PeCDF	84.1	
123478-HxCDF	ND	1130			ES 123478-HxCDF	91.4	
123678-HxCDF	ND	1220			ES 123678-HxCDF	88.3	
234678-HxCDF	ND	1210			ES 234678-HxCDF	82.2	
123789-HxCDF	ND	1660			ES 123789-HxCDF	76.1	
1234678-HpCDF	ND	2250			ES 1234678-HpCDF	53.5	
1234789-HpCDF	ND	3370			ES 1234789-HpCDF	44.6	
OCDF	ND	4740			ES OCDF	21.8	V
Totals					**Standard**	**CS/AS Recoveries**	
					CS 37Cl-2378-TCDD	91.3	
Total TCDD	11000		14700		CS 12347-PeCDD	83.3	
Total PeCDD	18800		20800		CS 12346-PeCDF	87.3	
Total HxCDD	23500		25600		CS 123469-HxCDF	104	
Total HpCDD	15600		15600		CS 1234689-HpCDF	51.6	
					AS 1368-TCDD	62.3	
Total TCDF	17800		31000		AS 1368-TCDF	71.6	
Total PeCDF	11000		15500				
Total HxCDF	1340		4850				
Total HpCDF	ND	2720	ND				
Total PCDD/Fs	**99000**		**145000**				
WHO-2005 TEQs							
TEQ: ND=0	651		781				
TEQ: ND=DL/2	2110	1640	2210				
TEQ: ND=DL	3570	3280	3650				

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Sample ID: EB-45-7.5

Method 8290A

Client Data		Sample Data		Laboratory Data			
Name:	SLR International Corporation	Matrix:	Solids	Lab Project ID:	A5634	Date Received:	18-Jun-2013
Project ID:	101.00205.00019 Crowley	Weight/Volume:	0.0101 Kg	Lab Sample ID	A5634_11062_DF_006-RJ2	Date Extracted:	21-Jun-2013
Date Collected:	10-Jun-2013	% Solids:	87.2 %	QC Batch No:	11062	Date Analyzed:	09-Jul-2013
		Split:	-	Dilution:	-	Time Analyzed:	22:07:13

Analyte	Conc. (pg/Kg)	DL (pg/Kg)	EMPC (pg/Kg)	Qualifiers
2378-TCDD	206			J
12378-PeCDD	1360			J
123478-HxCDD	2590			
123678-HxCDD	11100			
123789-HxCDD	3900			
1234678-HpCDD	433000			
OCDD	5080000			
2378-TCDF	3590			
12378-PeCDF	6860			
23478-PeCDF	18400			
123478-HxCDF	21400			
123678-HxCDF	20900			
234678-HxCDF	25100			
123789-HxCDF	ND	180		
1234678-HpCDF	145000			
1234789-HpCDF	16000			
OCDF	285000			
Totals				
Total TCDD	10800		11500	
Total PeCDD	14500		15800	
Total HxCDD	76500		76500	
Total HpCDD	719000		719000	
Total TCDF	113000		113000	
Total PeCDF	164000		164000	
Total HxCDF	215000		215000	
Total HpCDF	357000		357000	
Total PCDD/Fs	**7040000**		**7040000**	
WHO-2005 TEQs				
TEQ: ND=0	23700		23700	
TEQ: ND=DL/2	23700	277	23700	
TEQ: ND=DL	23700	553	23700	

Standard	ES Recoveries	Qualifiers
ES 2378-TCDD	82.4	
ES 12378-PeCDD	86.4	
ES 123478-HxCDD	63.9	
ES 123678-HxCDD	60.9	
ES 123789-HxCDD	54	
ES 1234678-HpCDD	67.9	
ES OCDD	60.7	
ES 2378-TCDF	89.8	
ES 12378-PeCDF	89.7	
ES 23478-PeCDF	89.4	
ES 123478-HxCDF	65.7	
ES 123678-HxCDF	63.2	
ES 234678-HxCDF	64	
ES 123789-HxCDF	60.8	
ES 1234678-HpCDF	66	
ES 1234789-HpCDF	70.4	
ES OCDF	63.4	

Standard	CS/AS Recoveries
CS 37Cl-2378-TCDD	88.1
CS 12347-PeCDD	91.5
CS 12346-PeCDF	86.9
CS 123469-HxCDF	76.4
CS 1234689-HpCDF	72.6
AS 1368-TCDD	82.9
AS 1368-TCDF	75.5

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Sample ID: EMW-3S-10.0

Method 8290A

Client Data		Sample Data		Laboratory Data			
Name:	SLR International Corporation	Matrix:	Solids	Lab Project ID:	A5634	Date Received:	18-Jun-2013
Project ID:	101.00205.00019 Crowley	Weight/Volume:	0.0100 Kg	Lab Sample ID	A5634_11062_DF_009-RJ2	Date Extracted:	21-Jun-2013
Date Collected:	11-Jun-2013	% Solids:	69.7 %	QC Batch No:	11062	Date Analyzed:	10-Jul-2013
		Split:	-	Dilution:	-	Time Analyzed:	00:55:16

Analyte	Conc. (pg/Kg)	DL (pg/Kg)	EMPC (pg/Kg)	Qualifiers	Standard	ES Recoveries	Qualifiers
2378-TCDD	487			J	ES 2378-TCDD	92.9	
12378-PeCDD	1920			J	ES 12378-PeCDD	91.4	
123478-HxCDD	1970			J	ES 123478-HxCDD	80.2	
123678-HxCDD	7440				ES 123678-HxCDD	75.9	
123789-HxCDD	2310			J	ES 123789-HxCDD	76.6	
1234678-HpCDD	135000				ES 1234678-HpCDD	84.1	
OCDD	1060000				ES OCDD	74.6	
2378-TCDF	2410				ES 2378-TCDF	92.1	
12378-PeCDF	1180			J	ES 12378-PeCDF	93.5	
23478-PeCDF	2690				ES 23478-PeCDF	94.9	
123478-HxCDF	1470			J	ES 123478-HxCDF	78.9	
123678-HxCDF	1070			J	ES 123678-HxCDF	77.9	
234678-HxCDF	1910			J	ES 234678-HxCDF	78	
123789-HxCDF	116			J	ES 123789-HxCDF	81.4	
1234678-HpCDF	16300				ES 1234678-HpCDF	83.3	
1234789-HpCDF	1420			J	ES 1234789-HpCDF	86.5	
OCDF	50700				ES OCDF	79.8	
Totals					**Standard**	**CS/AS Recoveries**	
					CS 37Cl-2378-TCDD	98.6	
Total TCDD	73800		74400		CS 12347-PeCDD	97.3	
Total PeCDD	49200		49200		CS 12346-PeCDF	92.8	
Total HxCDD	44200		44200		CS 123469-HxCDF	92.1	
Total HpCDD	234000		234000		CS 1234689-HpCDF	89.9	
					AS 1368-TCDD	96.6	
Total TCDF	51000		51300		AS 1368-TCDF	95.1	
Total PeCDF	31300		31300				
Total HxCDF	28500		28600				
Total HpCDF	72600		72600				
Total PCDD/Fs	**1700000**		**1700000**				
WHO-2005 TEQs							
TEQ: ND=0	6980		6980				
TEQ: ND=DL/2	6980	115	6980				
TEQ: ND=DL	6980	231	6980				

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Sample ID: EMW-6S-5.0

Method 8290A

Client Data		Sample Data		Laboratory Data			
Name:	SLR International Corporation	Matrix:	Solids	Lab Project ID:	A5634	Date Received:	18-Jun-2013
Project ID:	101.00205.00019 Crowley	Weight/Volume:	0.0100 Kg	Lab Sample ID	A5634_11062_DF_012-RJ2	Date Extracted:	21-Jun-2013
Date Collected:	12-Jun-2013	% Solids:	90.0 %	QC Batch No:	11062	Date Analyzed:	10-Jul-2013
		Split:	-	Dilution:	-	Time Analyzed:	01:48:37

Analyte	Conc. (pg/Kg)	DL (pg/Kg)	EMPC (pg/Kg)	Qualifiers
2378-TCDD	1740			
12378-PeCDD	5690			
123478-HxCDD	5750			
123678-HxCDD	7630			
123789-HxCDD	3780			
1234678-HpCDD	66500			
OCDD	403000			
2378-TCDF	6620			
12378-PeCDF	2490			
23478-PeCDF	7960			
123478-HxCDF	2550			
123678-HxCDF	2530			
234678-HxCDF	4030			
123789-HxCDF	368			J
1234678-HpCDF	24100			
1234789-HpCDF	868			J
OCDF	20700			
Totals				
Total TCDD	113000		113000	
Total PeCDD	108000		108000	
Total HxCDD	99000		99000	
Total HpCDD	132000		132000	
Total TCDF	135000		135000	
Total PeCDF	93500		93500	
Total HxCDF	52200		52700	
Total HpCDF	46100		46100	
Total PCDD/Fs	**1200000**		**1200000**	
WHO-2005 TEQs				
TEQ: ND=0	14300		14300	
TEQ: ND=DL/2	14300	167	14300	
TEQ: ND=DL	14300	333	14300	

Standard	ES Recoveries	Qualifiers
ES 2378-TCDD	94.4	
ES 12378-PeCDD	96.9	
ES 123478-HxCDD	81.2	
ES 123678-HxCDD	83.5	
ES 123789-HxCDD	83.4	
ES 1234678-HpCDD	88.5	
ES OCDD	82.7	
ES 2378-TCDF	92.3	
ES 12378-PeCDF	101	
ES 23478-PeCDF	101	
ES 123478-HxCDF	84.5	
ES 123678-HxCDF	85.7	
ES 234678-HxCDF	82.9	
ES 123789-HxCDF	85.7	
ES 1234678-HpCDF	88.9	
ES 1234789-HpCDF	91.4	
ES OCDF	85.6	

Standard	CS/AS Recoveries
CS 37Cl-2378-TCDD	97.2
CS 12347-PeCDD	101
CS 12346-PeCDF	99.8
CS 123469-HxCDF	99
CS 1234689-HpCDF	93.4
AS 1368-TCDD	90.3
AS 1368-TCDF	90.8

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Sample ID: EMW-9S-1.0

Method 8290A

Client Data		Sample Data		Laboratory Data			
Name:	SLR International Corporation	Matrix:	Solids	Lab Project ID:	A5634	Date Received:	18-Jun-2013
Project ID:	101.00205.00019 Crowley	Weight/Volume:	0.0100 Kg	Lab Sample ID	A5634_11062_DF_014-RJ2	Date Extracted:	21-Jun-2013
Date Collected:	12-Jun-2013	% Solids:	96.2 %	QC Batch No:	11062	Date Analyzed:	10-Jul-2013
		Split:	-	Dilution:	-	Time Analyzed:	02:41:53

Analyte	Conc. (pg/Kg)	DL (pg/Kg)	EMPC (pg/Kg)	Qualifiers
2378-TCDD	ND	91.1		
12378-PeCDD	ND	108		
123478-HxCDD	ND	108		
123678-HxCDD	255			J
123789-HxCDD	161			J
1234678-HpCDD	6080			
OCDD	65200			
2378-TCDF	ND	83.8		
12378-PeCDF	ND	107		
23478-PeCDF	ND	107		
123478-HxCDF	ND	80.6		
123678-HxCDF	ND	80.8		
234678-HxCDF	ND	83.2		
123789-HxCDF	ND	111		
1234678-HpCDF	731			J
1234789-HpCDF	ND	108		
OCDF	1910			J
Totals				
Total TCDD	ND	91.1	ND	
Total PeCDD	ND	108	ND	
Total HxCDD	1260		1460	
Total HpCDD	10900		10900	
Total TCDF	ND	83.8	ND	
Total PeCDF	304		304	
Total HxCDF	1430		1430	
Total HpCDF	2570		2570	
Total PCDD/Fs	**83500**		**83700**	
WHO-2005 TEQs				
TEQ: ND=0	130		130	
TEQ: ND=DL/2	275	158	275	
TEQ: ND=DL	420	315	420	

Standard	ES Recoveries	Qualifiers
ES 2378-TCDD	86.4	
ES 12378-PeCDD	85.5	
ES 123478-HxCDD	73.1	
ES 123678-HxCDD	71.3	
ES 123789-HxCDD	72	
ES 1234678-HpCDD	80.6	
ES OCDD	75.2	
ES 2378-TCDF	88.3	
ES 12378-PeCDF	89	
ES 23478-PeCDF	87.7	
ES 123478-HxCDF	74.4	
ES 123678-HxCDF	76	
ES 234678-HxCDF	74.8	
ES 123789-HxCDF	74.7	
ES 1234678-HpCDF	79.8	
ES 1234789-HpCDF	80.5	
ES OCDF	76.5	
Standard	**CS/AS Recoveries**	
CS 37Cl-2378-TCDD	87.7	
CS 12347-PeCDD	87.6	
CS 12346-PeCDF	88.3	
CS 123469-HxCDF	86.1	
CS 1234689-HpCDF	83.1	
AS 1368-TCDD	82	
AS 1368-TCDF	52.4	

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Sample ID: EMW-9S-5.0

Method 8290A

Client Data		Sample Data		Laboratory Data			
Name:	SLR International Corporation	Matrix:	Solids	Lab Project ID:	A5634	Date Received:	18-Jun-2013
Project ID:	101.00205.00019 Crowley	Weight/Volume:	0.0101 Kg	Lab Sample ID	A5634_11062_DF_015-RJ2	Date Extracted:	21-Jun-2013
Date Collected:	13-Jun-2013	% Solids:	87.9 %	QC Batch No:	11062	Date Analyzed:	10-Jul-2013
		Split:	-	Dilution:	-	Time Analyzed:	03:35:10

Analyte	Conc. (pg/Kg)	DL (pg/Kg)	EMPC (pg/Kg)	Qualifiers
2378-TCDD	235			J
12378-PeCDD	1190			J
123478-HxCDD	9100			
123678-HxCDD	33300			
123789-HxCDD	8030			
1234678-HpCDD	2390000			
OCDD	33100000			E
2378-TCDF	5250			
12378-PeCDF	714			J
23478-PeCDF	1700			J
123478-HxCDF	5540			
123678-HxCDF	1790			J
234678-HxCDF	3670			
123789-HxCDF	ND	122		
1234678-HpCDF	156000			
1234789-HpCDF	21300			
OCDF	905000			
Totals				
Total TCDD	5150		5510	
Total PeCDD	9620		9620	
Total HxCDD	223000		223000	
Total HpCDD	3590000		3590000	
Total TCDF	20400		20900	
Total PeCDF	13400		13700	
Total HxCDF	129000		130000	
Total HpCDF	771000		771000	
Total PCDD/Fs	**38700000**		**38700000**	
WHO-2005 TEQs				
TEQ: ND=0	44500		44500	
TEQ: ND=DL/2	44500	127	44500	
TEQ: ND=DL	44500	254	44500	

Standard	ES Recoveries	Qualifiers
ES 2378-TCDD	102	
ES 12378-PeCDD	103	
ES 123478-HxCDD	67.3	
ES 123678-HxCDD	51.2	
ES 123789-HxCDD	45.6	
ES 1234678-HpCDD	66.3	
ES OCDD	64.3	
ES 2378-TCDF	96.2	
ES 12378-PeCDF	104	
ES 23478-PeCDF	106	
ES 123478-HxCDF	61.7	
ES 123678-HxCDF	59	
ES 234678-HxCDF	61.2	
ES 123789-HxCDF	50	
ES 1234678-HpCDF	64.5	
ES 1234789-HpCDF	68.1	
ES OCDF	65.5	

Standard	CS/AS Recoveries
CS 37Cl-2378-TCDD	104
CS 12347-PeCDD	103
CS 12346-PeCDF	82.5
CS 123469-HxCDF	68.8
CS 1234689-HpCDF	67.4
AS 1368-TCDD	92
AS 1368-TCDF	61.1

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Sample ID: EMW-5S-2.5

Method 8290A

Client Data		Sample Data		Laboratory Data			
Name:	SLR International Corporation	Matrix:	Solids	Lab Project ID:	A5634	Date Received:	18-Jun-2013
Project ID:	101.00205.00019 Crowley	Weight/Volume:	0.0100 Kg	Lab Sample ID	A5634_11062_DF_018-RJ2	Date Extracted:	21-Jun-2013
Date Collected:	13-Jun-2013	% Solids:	80.5 %	QC Batch No:	11062	Date Analyzed:	10-Jul-2013
		Split:	-	Dilution:	-	Time Analyzed:	04:28:33

Analyte	Conc. (pg/Kg)	DL (pg/Kg)	EMPC (pg/Kg)	Qualifiers	Standard	ES Recoveries	Qualifiers
2378-TCDD	860				ES 2378-TCDD	93.4	
12378-PeCDD	2830				ES 12378-PeCDD	87.7	
123478-HxCDD	4030				ES 123478-HxCDD	73.8	
123678-HxCDD	13900				ES 123678-HxCDD	73.7	
123789-HxCDD	7150				ES 123789-HxCDD	64.6	
1234678-HpCDD	617000				ES 1234678-HpCDD	56.7	
OCDD	17900000			E	ES OCDD	36.3	
2378-TCDF	3340				ES 2378-TCDF	96.5	
12378-PeCDF	1160			J	ES 12378-PeCDF	92	
23478-PeCDF	5210				ES 23478-PeCDF	89	
123478-HxCDF	5690				ES 123478-HxCDF	75.9	
123678-HxCDF	2850				ES 123678-HxCDF	75.1	
234678-HxCDF	4820				ES 234678-HxCDF	62.7	
123789-HxCDF	347			J	ES 123789-HxCDF	68.1	
1234678-HpCDF	95400				ES 1234678-HpCDF	64.3	
1234789-HpCDF	7440				ES 1234789-HpCDF	59	
OCDF	166000				ES OCDF	38.2	
Totals					**Standard**	**CS/AS Recoveries**	
					CS 37Cl-2378-TCDD	94.6	
Total TCDD	9740		10800		CS 12347-PeCDD	92.2	
Total PeCDD	21500		22700		CS 12346-PeCDF	90	
Total HxCDD	92900		92900		CS 123469-HxCDF	87.3	
Total HpCDD	1380000		1380000		CS 1234689-HpCDF	66.6	
					AS 1368-TCDD	97	
Total TCDF	45800		46100		AS 1368-TCDF	97.6	
Total PeCDF	71200		71600				
Total HxCDF	149000		150000				
Total HpCDF	389000		389000				
Total PCDD/Fs	**20300000**		**20300000**				
WHO-2005 TEQs							
TEQ: ND=0	22100		22100				
TEQ: ND=DL/2	22100	229	22100				
TEQ: ND=DL	22100	459	22100				

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Sample ID: EMW-5S-6.5

Method 8290A

Client Data		Sample Data		Laboratory Data			
Name:	SLR International Corporation	Matrix:	Solids	Lab Project ID:	A5634	Date Received:	18-Jun-2013
Project ID:	101.00205.00019 Crowley	Weight/Volume:	0.0100 Kg	Lab Sample ID	A5634_11062_DF_019-RJ2	Date Extracted:	21-Jun-2013
Date Collected:	13-Jun-2013	% Solids:	64.2 %	QC Batch No:	11062	Date Analyzed:	10-Jul-2013
		Split:	-	Dilution:	-	Time Analyzed:	05:21:50

Analyte	Conc. (pg/Kg)	DL (pg/Kg)	EMPC (pg/Kg)	Qualifiers	Standard	ES Recoveries	Qualifiers
2378-TCDD	3820				ES 2378-TCDD	97.2	
12378-PeCDD	13600				ES 12378-PeCDD	94.6	
123478-HxCDD	10400				ES 123478-HxCDD	81.7	
123678-HxCDD	11900				ES 123678-HxCDD	82.5	
123789-HxCDD	9360				ES 123789-HxCDD	84.1	
1234678-HpCDD	58100				ES 1234678-HpCDD	88.4	
OCDD	208000				ES OCDD	80.5	
2378-TCDF	23800				ES 2378-TCDF	99.6	
12378-PeCDF	9890				ES 12378-PeCDF	101	
23478-PeCDF	19700				ES 23478-PeCDF	100	
123478-HxCDF	8870				ES 123478-HxCDF	84.6	
123678-HxCDF	7180				ES 123678-HxCDF	84.7	
234678-HxCDF	9210				ES 234678-HxCDF	83.8	
123789-HxCDF	555			J	ES 123789-HxCDF	88	
1234678-HpCDF	75400				ES 1234678-HpCDF	88.2	
1234789-HpCDF	1760			J	ES 1234789-HpCDF	86.4	
OCDF	28100				ES OCDF	81.5	
Totals					**Standard**	**CS/AS Recoveries**	
					CS 37Cl-2378-TCDD	98	
Total TCDD	567000		567000		CS 12347-PeCDD	95.5	
Total PeCDD	415000		415000		CS 12346-PeCDF	99.4	
Total HxCDD	216000		216000		CS 123469-HxCDF	95.3	
Total HpCDD	104000		104000		CS 1234689-HpCDF	90.5	
					AS 1368-TCDD	97.7	
Total TCDF	443000		443000		AS 1368-TCDF	101	
Total PeCDF	252000		252000				
Total HxCDF	118000		118000				
Total HpCDF	127000		127000				
Total PCDD/Fs	**2480000**		**2480000**				
WHO-2005 TEQs							
TEQ: ND=0	33200		33200				
TEQ: ND=DL/2	33200	236	33200				
TEQ: ND=DL	33200	473	33200				

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Sample ID: EB-46-1.0

Method 8290A

Client Data		Sample Data		Laboratory Data			
Name:	SLR International Corporation	Matrix:	Solids	Lab Project ID:	A5634	Date Received:	18-Jun-2013
Project ID:	101.00205.00019 Crowley	Weight/Volume:	0.0100 Kg	Lab Sample ID	A5634_11062_DF_021-RJ2	Date Extracted:	21-Jun-2013
Date Collected:	14-Jun-2013	% Solids:	89.4 %	QC Batch No:	11062	Date Analyzed:	10-Jul-2013
		Split:	-	Dilution:	-	Time Analyzed:	06:15:07

Analyte	Conc. (pg/Kg)	DL (pg/Kg)	EMPC (pg/Kg)	Qualifiers	Standard	ES Recoveries	Qualifiers
2378-TCDD	ND	66.6			ES 2378-TCDD	95.9	
12378-PeCDD	150			J	ES 12378-PeCDD	92.8	
123478-HxCDD	292			J	ES 123478-HxCDD	80.6	
123678-HxCDD	1660			J	ES 123678-HxCDD	79.3	
123789-HxCDD	596			J	ES 123789-HxCDD	81	
1234678-HpCDD	94600				ES 1234678-HpCDD	83.4	
OCDD	1330000				ES OCDD	77.6	
2378-TCDF	328			J	ES 2378-TCDF	95.9	
12378-PeCDF	EMPC		173	J	ES 12378-PeCDF	95.3	
23478-PeCDF	EMPC		406	J	ES 23478-PeCDF	94.8	
123478-HxCDF	547			J	ES 123478-HxCDF	81.1	
123678-HxCDF	265			J	ES 123678-HxCDF	81.6	
234678-HxCDF	370			J	ES 234678-HxCDF	81	
123789-HxCDF	ND	100			ES 123789-HxCDF	83.2	
1234678-HpCDF	8190				ES 1234678-HpCDF	83.3	
1234789-HpCDF	EMPC		1050	J	ES 1234789-HpCDF	83.5	
OCDF	41500				ES OCDF	76.4	
Totals					**Standard**	**CS/AS Recoveries**	
					CS 37Cl-2378-TCDD	97.7	
Total TCDD	448		705		CS 12347-PeCDD	94.3	
Total PeCDD	1480		1620		CS 12346-PeCDF	94.1	
Total HxCDD	9000		9220		CS 123469-HxCDF	91.6	
Total HpCDD	153000		153000		CS 1234689-HpCDF	86.6	
					AS 1368-TCDD	94.2	
Total TCDF	4000		4350		AS 1368-TCDF	57.5	
Total PeCDF	3590		4170				
Total HxCDF	7290		7790				
Total HpCDF	33700		35000				
Total PCDD/Fs	**1580000**		**1590000**				
WHO-2005 TEQs							
TEQ: ND=0	1990		2130				
TEQ: ND=DL/2	2050	135	2170				
TEQ: ND=DL	2110	269	2210				

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Sample ID: EB-46-8.0

Method 8290A

Client Data		Sample Data		Laboratory Data			
Name:	SLR International Corporation	Matrix:	Solids	Lab Project ID:	A5634	Date Received:	18-Jun-2013
Project ID:	101.00205.00019 Crowley	Weight/Volume:	0.0100 Kg	Lab Sample ID	A5634_11062_DF_022-RJ2	Date Extracted:	21-Jun-2013
Date Collected:	14-Jun-2013	% Solids:	82.5 %	QC Batch No:	11062	Date Analyzed:	10-Jul-2013
		Split:	-	Dilution:	-	Time Analyzed:	07:08:24

Analyte	Conc. (pg/Kg)	DL (pg/Kg)	EMPC (pg/Kg)	Qualifiers	Standard	ES Recoveries	Qualifiers
2378-TCDD	ND	51.7			ES 2378-TCDD	82.6	
12378-PeCDD	ND	48.4			ES 12378-PeCDD	94.6	
123478-HxCDD	ND	60.1			ES 123478-HxCDD	79.7	
123678-HxCDD	ND	64.2			ES 123678-HxCDD	79.9	
123789-HxCDD	143			J	ES 123789-HxCDD	79.6	
1234678-HpCDD	504			J	ES 1234678-HpCDD	82	
OCDD	3710			J	ES OCDD	73.9	
2378-TCDF	ND	30.3			ES 2378-TCDF	97.7	
12378-PeCDF	ND	33.7			ES 12378-PeCDF	100	
23478-PeCDF	ND	35.2			ES 23478-PeCDF	99	
123478-HxCDF	ND	35.8			ES 123478-HxCDF	80.9	
123678-HxCDF	ND	32.9			ES 123678-HxCDF	82.8	
234678-HxCDF	ND	35.2			ES 234678-HxCDF	81.9	
123789-HxCDF	ND	44.6			ES 123789-HxCDF	84.3	
1234678-HpCDF	EMPC		73.8	J	ES 1234678-HpCDF	82.1	
1234789-HpCDF	ND	61.6			ES 1234789-HpCDF	84	
OCDF	ND	84			ES OCDF	74.3	
Totals					**Standard**	**CS/AS Recoveries**	
					CS 37Cl-2378-TCDD	82	
Total TCDD	94.4		418		CS 12347-PeCDD	96.7	
Total PeCDD	103		196		CS 12346-PeCDF	99.3	
Total HxCDD	703		703		CS 123469-HxCDF	94.1	
Total HpCDD	504		1220		CS 1234689-HpCDF	84.3	
					AS 1368-TCDD	73	
Total TCDF	200		200		AS 1368-TCDF	42.9	
Total PeCDF	ND	34.4	ND				
Total HxCDF	ND	36.8	ND				
Total HpCDF	ND		73.8				
Total PCDD/Fs	**5320**		**6520**				
WHO-2005 TEQs							
TEQ: ND=0	20.5		21.2				
TEQ: ND=DL/2	92	75.1	92.5				
TEQ: ND=DL	164	150	164				

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Sample ID: Method Blank

Method 8290A

Client Data		Sample Data		Laboratory Data			
Name:	SLR International Corporation	Matrix:	Solids	Lab Project ID:	A5634	Date Received:	n/a
Project ID:	101.00205.00019 Crowley	Weight/Volume:	0.0100 Kg	Lab Sample ID	MB1_11184_DF_SDS	Date Extracted:	29-Jul-2013
Date Collected:	n/a	% Solids:	100.0 %	QC Batch No:	11184	Date Analyzed:	02-Aug-2013
		Split:	-	Dilution:	-	Time Analyzed:	20:36:40

Analyte	Conc. (pg/Kg)	DL (pg/Kg)	EMPC (pg/Kg)	Qualifiers	Standard	ES Recoveries	Qualifiers
2378-TCDD	ND	103			ES 2378-TCDD	91	
12378-PeCDD	ND	112			ES 12378-PeCDD	86.2	
123478-HxCDD	ND	94.6			ES 123478-HxCDD	86.6	
123678-HxCDD	ND	91.2			ES 123678-HxCDD	85.4	
123789-HxCDD	ND	93.7			ES 123789-HxCDD	83.4	
1234678-HpCDD	ND	77.4			ES 1234678-HpCDD	86	
OCDD	ND	163			ES OCDD	78.8	
2378-TCDF	ND	59.6			ES 2378-TCDF	96	
12378-PeCDF	ND	53.7			ES 12378-PeCDF	90.6	
23478-PeCDF	ND	51			ES 23478-PeCDF	89.2	
123478-HxCDF	ND	75.3			ES 123478-HxCDF	84.8	
123678-HxCDF	ND	70			ES 123678-HxCDF	86.4	
234678-HxCDF	ND	73.9			ES 234678-HxCDF	85.5	
123789-HxCDF	ND	85.4			ES 123789-HxCDF	86.4	
1234678-HpCDF	ND	65.7			ES 1234678-HpCDF	85.6	
1234789-HpCDF	ND	76.7			ES 1234789-HpCDF	84.3	
OCDF	ND	143			ES OCDF	80.5	
Totals					**Standard**	**CS/AS Recoveries**	
					CS 37Cl-2378-TCDD	92.2	
Total TCDD	ND	103	ND		CS 12347-PeCDD	87.3	
Total PeCDD	ND	112	ND		CS 12346-PeCDF	91.8	
Total HxCDD	ND	92.9	ND		CS 123469-HxCDF	86	
Total HpCDD	ND	77.4	ND		CS 1234689-HpCDF	86.4	
					AS 1368-TCDD	89.7	
Total TCDF	ND	59.6	ND		AS 1368-TCDF	97.4	
Total PeCDF	ND	52.3	ND				
Total HxCDF	ND	75.7	ND				
Total HpCDF	ND	70.9	ND				
Total PCDD/Fs	**ND**		**ND**				
WHO-2005 TEQs							
TEQ: ND=0	0		0				
TEQ: ND=DL/2	149	149	149				
TEQ: ND=DL	299	299	299				

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Sample ID: EB-28-10.0

Method 8290A

Client Data		Sample Data		Laboratory Data			
Name:	SLR International Corporation	Matrix:	Solids	Lab Project ID:	A5634	Date Received:	18-Jun-2013
Project ID:	101.00205.00019 Crowley	Weight/Volume:	0.0100 Kg	Lab Sample ID	A5634_11184_DF_004	Date Extracted:	29-Jul-2013
Date Collected:	10-Jun-2013	% Solids:	87.2 %	QC Batch No:	11184	Date Analyzed:	02-Aug-2013
		Split:	-	Dilution:	-	Time Analyzed:	21:29:08

Analyte	Conc. (pg/Kg)	DL (pg/Kg)	EMPC (pg/Kg)	Qualifiers	Standard	ES Recoveries	Qualifiers
2378-TCDD	ND	85.3			ES 2378-TCDD	86.3	
12378-PeCDD	ND	130			ES 12378-PeCDD	76.9	
123478-HxCDD	ND	104			ES 123478-HxCDD	86.2	
123678-HxCDD	ND	107			ES 123678-HxCDD	86.5	
123789-HxCDD	ND	108			ES 123789-HxCDD	83.4	
1234678-HpCDD	EMPC		304	J	ES 1234678-HpCDD	80.1	
OCDD	2350			J	ES OCDD	66.6	
2378-TCDF	ND	56.3			ES 2378-TCDF	96.2	
12378-PeCDF	ND	77.4			ES 12378-PeCDF	82.2	
23478-PeCDF	ND	73.8			ES 23478-PeCDF	84.5	
123478-HxCDF	ND	71.9			ES 123478-HxCDF	85.2	
123678-HxCDF	ND	65.9			ES 123678-HxCDF	84.2	
234678-HxCDF	ND	68.9			ES 234678-HxCDF	84.4	
123789-HxCDF	ND	81.1			ES 123789-HxCDF	83.9	
1234678-HpCDF	ND	62			ES 1234678-HpCDF	80.2	
1234789-HpCDF	ND	75.3			ES 1234789-HpCDF	83	
OCDF	ND	141			ES OCDF	72.7	
Totals					**Standard**	**CS/AS Recoveries**	
					CS 37Cl-2378-TCDD	88.5	
Total TCDD	96.7		96.7		CS 12347-PeCDD	79.2	
Total PeCDD	ND	130	ND		CS 12346-PeCDF	84.6	
Total HxCDD	454		454		CS 123469-HxCDF	86.1	
Total HpCDD	645		949		CS 1234689-HpCDF	81.1	
					AS 1368-TCDD	95.7	
Total TCDF	83.1		83.1		AS 1368-TCDF	78.1	
Total PeCDF	ND	75.6	ND				
Total HxCDF	ND	71.6	ND				
Total HpCDF	ND	68.3	ND				
Total PCDD/Fs	**3630**		**3930**				
WHO-2005 TEQs							
TEQ: ND=0	0.704		3.75				
TEQ: ND=DL/2	155	154	157				
TEQ: ND=DL	309	308	311				

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Sample ID: EB-45-5.0

Method 8290A

Client Data		Sample Data		Laboratory Data			
Name:	SLR International Corporation	Matrix:	Solids	Lab Project ID:	A5634	Date Received:	18-Jun-2013
Project ID:	101.00205.00019 Crowley	Weight/Volume:	0.0101 Kg	Lab Sample ID	A5634_11184_DF_005	Date Extracted:	29-Jul-2013
Date Collected:	10-Jun-2013	% Solids:	87.2 %	QC Batch No:	11184	Date Analyzed:	02-Aug-2013
		Split:	-	Dilution:	-	Time Analyzed:	22:21:43

Analyte	Conc. (pg/Kg)	DL (pg/Kg)	EMPC (pg/Kg)	Qualifiers	Standard	ES Recoveries	Qualifiers
2378-TCDD	EMPC		196	J	ES 2378-TCDD	88.4	
12378-PeCDD	573			J	ES 12378-PeCDD	79	
123478-HxCDD	869			J	ES 123478-HxCDD	81.7	
123678-HxCDD	3840				ES 123678-HxCDD	81.3	
123789-HxCDD	1780			J	ES 123789-HxCDD	81.4	
1234678-HpCDD	142000				ES 1234678-HpCDD	83.7	
OCDD	1670000				ES OCDD	81.2	
2378-TCDF	774				ES 2378-TCDF	99.6	
12378-PeCDF	642			J	ES 12378-PeCDF	88.3	
23478-PeCDF	1830			J	ES 23478-PeCDF	86.8	
123478-HxCDF	1320			J	ES 123478-HxCDF	82	
123678-HxCDF	942			J	ES 123678-HxCDF	80.1	
234678-HxCDF	1460			J	ES 234678-HxCDF	80.7	
123789-HxCDF	ND	138			ES 123789-HxCDF	84.8	
1234678-HpCDF	15700				ES 1234678-HpCDF	83.9	
1234789-HpCDF	1260			J	ES 1234789-HpCDF	83.9	
OCDF	56300				ES OCDF	82	
Totals					**Standard**	**CS/AS Recoveries**	
					CS 37Cl-2378-TCDD	87.9	
Total TCDD	11000		11800		CS 12347-PeCDD	77	
Total PeCDD	11500		11500		CS 12346-PeCDF	88.9	
Total HxCDD	27500		27500		CS 123469-HxCDF	82.7	
Total HpCDD	253000		253000		CS 1234689-HpCDF	84.4	
					AS 1368-TCDD	89	
Total TCDF	17200		17200		AS 1368-TCDF	101	
Total PeCDF	21100		21100				
Total HxCDF	26200		26900				
Total HpCDF	61200		61200				
Total PCDD/Fs	**2160000**		**2160000**				
WHO-2005 TEQs							
TEQ: ND=0	4340		4540				
TEQ: ND=DL/2	4390	195	4540				
TEQ: ND=DL	4430	389	4550				

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Sample ID: EB-45-10.0

Method 8290A

Client Data		Sample Data		Laboratory Data			
Name:	SLR International Corporation	Matrix:	Solids	Lab Project ID:	A5634	Date Received:	18-Jun-2013
Project ID:	101.00205.00019 Crowley	Weight/Volume:	0.0101 Kg	Lab Sample ID	A5634_11184_DF_007	Date Extracted:	29-Jul-2013
Date Collected:	10-Jun-2013	% Solids:	91.2 %	QC Batch No:	11184	Date Analyzed:	02-Aug-2013
		Split:	-	Dilution:	-	Time Analyzed:	23:14:17

Analyte	Conc. (pg/Kg)	DL (pg/Kg)	EMPC (pg/Kg)	Qualifiers	Standard	ES Recoveries	Qualifiers
2378-TCDD	ND	68.1			ES 2378-TCDD	89.1	
12378-PeCDD	ND	101			ES 12378-PeCDD	84.9	
123478-HxCDD	EMPC		121	J	ES 123478-HxCDD	84	
123678-HxCDD	EMPC		385	J	ES 123678-HxCDD	85.4	
123789-HxCDD	274			J	ES 123789-HxCDD	87	
1234678-HpCDD	17600				ES 1234678-HpCDD	85.1	
OCDD	189000				ES OCDD	76.5	
2378-TCDF	ND	56.4			ES 2378-TCDF	96.6	
12378-PeCDF	ND	71.1			ES 12378-PeCDF	90	
23478-PeCDF	EMPC		189	J	ES 23478-PeCDF	88.3	
123478-HxCDF	172			J	ES 123478-HxCDF	83	
123678-HxCDF	EMPC		119	J	ES 123678-HxCDF	84.5	
234678-HxCDF	204			J	ES 234678-HxCDF	86.9	
123789-HxCDF	ND	80.6			ES 123789-HxCDF	87.5	
1234678-HpCDF	2050			J	ES 1234678-HpCDF	87.4	
1234789-HpCDF	192			J	ES 1234789-HpCDF	87	
OCDF	8160				ES OCDF	79.1	
Totals					**Standard**	**CS/AS Recoveries**	
					CS 37Cl-2378-TCDD	88.4	
Total TCDD	163		270		CS 12347-PeCDD	82.1	
Total PeCDD	143		143		CS 12346-PeCDF	88.8	
Total HxCDD	2190		2700		CS 123469-HxCDF	86.4	
Total HpCDD	29400		29400		CS 1234689-HpCDF	87.3	
					AS 1368-TCDD	93.2	
Total TCDF	1130		1190		AS 1368-TCDF	105	
Total PeCDF	2090		2580				
Total HxCDF	3240		3350				
Total HpCDF	7980		7980				
Total PCDD/Fs	**244000**		**245000**				
WHO-2005 TEQs							
TEQ: ND=0	323		442				
TEQ: ND=DL/2	438	130	534				
TEQ: ND=DL	554	261	627				

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Sample ID: EMW-3S-7.5

Method 8290A

Client Data		Sample Data		Laboratory Data			
Name:	SLR International Corporation	Matrix:	Solids	Lab Project ID:	A5634	Date Received:	18-Jun-2013
Project ID:	101.00205.00019 Crowley	Weight/Volume:	0.0100 Kg	Lab Sample ID	A5634_11184_DF_008	Date Extracted:	29-Jul-2013
Date Collected:	11-Jun-2013	% Solids:	87.9 %	QC Batch No:	11184	Date Analyzed:	03-Aug-2013
		Split:	-	Dilution:	-	Time Analyzed:	00:06:52

Analyte	Conc. (pg/Kg)	DL (pg/Kg)	EMPC (pg/Kg)	Qualifiers	Standard	ES Recoveries	Qualifiers
2378-TCDD	EMPC		127	J	ES 2378-TCDD	91.1	
12378-PeCDD	660			J	ES 12378-PeCDD	86	
123478-HxCDD	1290			J	ES 123478-HxCDD	82	
123678-HxCDD	5510				ES 123678-HxCDD	82.4	
123789-HxCDD	2550				ES 123789-HxCDD	82.5	
1234678-HpCDD	165000				ES 1234678-HpCDD	84	
OCDD	1940000				ES OCDD	83.1	
2378-TCDF	EMPC		343	J	ES 2378-TCDF	97.9	
12378-PeCDF	EMPC		369	J	ES 12378-PeCDF	90.9	
23478-PeCDF	1090			J	ES 23478-PeCDF	90.2	
123478-HxCDF	1340			J	ES 123478-HxCDF	79.6	
123678-HxCDF	821			J	ES 123678-HxCDF	80.5	
234678-HxCDF	1400			J	ES 234678-HxCDF	83	
123789-HxCDF	ND	135			ES 123789-HxCDF	83.8	
1234678-HpCDF	25300				ES 1234678-HpCDF	82.3	
1234789-HpCDF	1900			J	ES 1234789-HpCDF	84.7	
OCDF	125000				ES OCDF	82.2	
Totals					**Standard**	**CS/AS Recoveries**	
					CS 37Cl-2378-TCDD	91.6	
Total TCDD	804		1470		CS 12347-PeCDD	88.2	
Total PeCDD	3610		4170		CS 12346-PeCDF	89.7	
Total HxCDD	41600		41600		CS 123469-HxCDF	80.2	
Total HpCDD	420000		420000		CS 1234689-HpCDF	85.9	
					AS 1368-TCDD	95.8	
Total TCDF	3710		5650		AS 1368-TCDF	109	
Total PeCDF	12600		13100				
Total HxCDF	34500		34500				
Total HpCDF	106000		106000				
Total PCDD/Fs	**2690000**		**2690000**				
WHO-2005 TEQs							
TEQ: ND=0	4820		4990				
TEQ: ND=DL/2	4870	173	5000				
TEQ: ND=DL	4920	347	5010				

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Sample ID: EMW-3S-12.5

Method 8290A

Client Data		Sample Data		Laboratory Data			
Name:	SLR International Corporation	Matrix:	Solids	Lab Project ID:	A5634	Date Received:	18-Jun-2013
Project ID:	101.00205.00019 Crowley	Weight/Volume:	0.0100 Kg	Lab Sample ID	A5634_11184_DF_010	Date Extracted:	29-Jul-2013
Date Collected:	11-Jun-2013	% Solids:	87.9 %	QC Batch No:	11184	Date Analyzed:	03-Aug-2013
		Split:	-	Dilution:	-	Time Analyzed:	00:59:22

Analyte	Conc. (pg/Kg)	DL (pg/Kg)	EMPC (pg/Kg)	Qualifiers	Standard	ES Recoveries	Qualifiers
2378-TCDD	ND	72.6			ES 2378-TCDD	81.8	
12378-PeCDD	131			J	ES 12378-PeCDD	75.1	
123478-HxCDD	EMPC		195	J	ES 123478-HxCDD	76.4	
123678-HxCDD	EMPC		754	J	ES 123678-HxCDD	78.9	
123789-HxCDD	515			J	ES 123789-HxCDD	77.2	
1234678-HpCDD	18400				ES 1234678-HpCDD	75.4	
OCDD	155000				ES OCDD	67	
2378-TCDF	EMPC		276	J	ES 2378-TCDF	88.6	
12378-PeCDF	729			J	ES 12378-PeCDF	81.8	
23478-PeCDF	961			J	ES 23478-PeCDF	80.7	
123478-HxCDF	430			J	ES 123478-HxCDF	76.5	
123678-HxCDF	342			J	ES 123678-HxCDF	76.5	
234678-HxCDF	612			J	ES 234678-HxCDF	75.1	
123789-HxCDF	ND	107			ES 123789-HxCDF	77.9	
1234678-HpCDF	2940				ES 1234678-HpCDF	81.4	
1234789-HpCDF	EMPC		155	J	ES 1234789-HpCDF	76.7	
OCDF	5680				ES OCDF	69.5	
Totals					**Standard**	**CS/AS Recoveries**	
					CS 37Cl-2378-TCDD	81.4	
Total TCDD	714		1140		CS 12347-PeCDD	74.2	
Total PeCDD	616		782		CS 12346-PeCDF	81.5	
Total HxCDD	4050		4990		CS 123469-HxCDF	77.1	
Total HpCDD	35800		35800		CS 1234689-HpCDF	78.8	
					AS 1368-TCDD	85.3	
Total TCDF	6090		7160		AS 1368-TCDF	89.3	
Total PeCDF	12200		12700				
Total HxCDF	8890		9010				
Total HpCDF	9210		9360				
Total PCDD/Fs	**238000**		**241000**				
WHO-2005 TEQs							
TEQ: ND=0	892		1020				
TEQ: ND=DL/2	953	165	1060				
TEQ: ND=DL	1010	331	1100				

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Sample ID: EMW-6S-2.5

Method 8290A

Client Data		Sample Data		Laboratory Data			
Name:	SLR International Corporation	Matrix:	Solids	Lab Project ID:	A5634	Date Received:	18-Jun-2013
Project ID:	101.00205.00019 Crowley	Weight/Volume:	0.0100 Kg	Lab Sample ID	A5634_11184_DF_011	Date Extracted:	29-Jul-2013
Date Collected:	11-Jun-2013	% Solids:	87.9 %	QC Batch No:	11184	Date Analyzed:	03-Aug-2013
		Split:	-	Dilution:	-	Time Analyzed:	01:51:55

Analyte	Conc. (pg/Kg)	DL (pg/Kg)	EMPC (pg/Kg)	Qualifiers
2378-TCDD	508			
12378-PeCDD	7230			
123478-HxCDD	11200			
123678-HxCDD	31400			
123789-HxCDD	23500			
1234678-HpCDD	394000			
OCDD	1380000			
2378-TCDF	3760			
12378-PeCDF	4540			
23478-PeCDF	13800			
123478-HxCDF	17400			
123678-HxCDF	7080			
234678-HxCDF	8100			
123789-HxCDF	ND	200		
1234678-HpCDF	49400			
1234789-HpCDF	2060			J
OCDF	21600			
Totals				
Total TCDD	7180		8410	
Total PeCDD	39000		39000	
Total HxCDD	211000		211000	
Total HpCDD	695000		695000	
Total TCDF	71700		73800	
Total PeCDF	143000		143000	
Total HxCDF	168000		168000	
Total HpCDF	97900		97900	
Total PCDD/Fs	**2830000**		**2840000**	
WHO-2005 TEQs				
TEQ: ND=0	27100		27100	
TEQ: ND=DL/2	27100	223	27100	
TEQ: ND=DL	27200	445	27200	

Standard	ES Recoveries	Qualifiers
ES 2378-TCDD	89.5	
ES 12378-PeCDD	87.8	
ES 123478-HxCDD	83	
ES 123678-HxCDD	85.4	
ES 123789-HxCDD	84.7	
ES 1234678-HpCDD	86.6	
ES OCDD	81.3	
ES 2378-TCDF	97.3	
ES 12378-PeCDF	92.1	
ES 23478-PeCDF	91.7	
ES 123478-HxCDF	82.8	
ES 123678-HxCDF	83.2	
ES 234678-HxCDF	83.6	
ES 123789-HxCDF	84.7	
ES 1234678-HpCDF	83.4	
ES 1234789-HpCDF	86.7	
ES OCDF	81.8	

Standard	CS/AS Recoveries
CS 37Cl-2378-TCDD	91.3
CS 12347-PeCDD	85.3
CS 12346-PeCDF	92.5
CS 123469-HxCDF	83.4
CS 1234689-HpCDF	85.5
AS 1368-TCDD	93.2
AS 1368-TCDF	104

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Sample ID: EMW-6S-7.5

Method 8290A

Client Data		Sample Data		Laboratory Data			
Name:	SLR International Corporation	Matrix:	Solids	Lab Project ID:	A5634	Date Received:	18-Jun-2013
Project ID:	101.00205.00019 Crowley	Weight/Volume:	0.0100 Kg	Lab Sample ID	A5634_11184_DF_013	Date Extracted:	29-Jul-2013
Date Collected:	12-Jun-2013	% Solids:	87.9 %	QC Batch No:	11184	Date Analyzed:	03-Aug-2013
		Split:	-	Dilution:	-	Time Analyzed:	02:44:27

Analyte	Conc. (pg/Kg)	DL (pg/Kg)	EMPC (pg/Kg)	Qualifiers	Standard	ES Recoveries	Qualifiers
2378-TCDD	ND	89.9			ES 2378-TCDD	89	
12378-PeCDD	ND	99.7			ES 12378-PeCDD	86.6	
123478-HxCDD	ND	103			ES 123478-HxCDD	82.3	
123678-HxCDD	ND	98.8			ES 123678-HxCDD	81.5	
123789-HxCDD	126			J	ES 123789-HxCDD	82.7	
1234678-HpCDD	456			J	ES 1234678-HpCDD	80.7	
OCDD	2780			J	ES OCDD	69.9	
2378-TCDF	ND	62.5			ES 2378-TCDF	94.5	
12378-PeCDF	ND	59.5			ES 12378-PeCDF	90.6	
23478-PeCDF	ND	55			ES 23478-PeCDF	88.6	
123478-HxCDF	ND	60.5			ES 123478-HxCDF	78.4	
123678-HxCDF	ND	59.6			ES 123678-HxCDF	79.3	
234678-HxCDF	ND	61.8			ES 234678-HxCDF	80.3	
123789-HxCDF	ND	69.9			ES 123789-HxCDF	82.8	
1234678-HpCDF	ND	46.1			ES 1234678-HpCDF	78.6	
1234789-HpCDF	ND	60.9			ES 1234789-HpCDF	81	
OCDF	ND	134			ES OCDF	72.4	
Totals					**Standard**	**CS/AS Recoveries**	
					CS 37Cl-2378-TCDD	92	
Total TCDD	ND	89.9	ND		CS 12347-PeCDD	85.2	
Total PeCDD	ND	99.7	ND		CS 12346-PeCDF	94.2	
Total HxCDD	126		243		CS 123469-HxCDF	84.5	
Total HpCDD	984		984		CS 1234689-HpCDF	84.9	
					AS 1368-TCDD	99.6	
Total TCDF	ND	62.5	ND		AS 1368-TCDF	99.9	
Total PeCDF	ND	57.3	ND				
Total HxCDF	ND	62.7	ND				
Total HpCDF	ND	53.1	ND				
Total PCDD/Fs	**3890**		**4010**				
WHO-2005 TEQs							
TEQ: ND=0	18		18				
TEQ: ND=DL/2	148	136	148				
TEQ: ND=DL	279	272	279				

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Sample ID: EMW-5S-1.0

Method 8290A

Client Data		Sample Data		Laboratory Data			
Name:	SLR International Corporation	Matrix:	Solids	Lab Project ID:	A5634	Date Received:	18-Jun-2013
Project ID:	101.00205.00019 Crowley	Weight/Volume:	0.0101 Kg	Lab Sample ID	A5634_11184_DF_017	Date Extracted:	29-Jul-2013
Date Collected:	13-Jun-2013	% Solids:	95.1 %	QC Batch No:	11184	Date Analyzed:	03-Aug-2013
		Split:	-	Dilution:	-	Time Analyzed:	03:37:01

Analyte	Conc. (pg/Kg)	DL (pg/Kg)	EMPC (pg/Kg)	Qualifiers	Standard	ES Recoveries	Qualifiers
2378-TCDD	ND	59.4			ES 2378-TCDD	90.8	
12378-PeCDD	ND	100			ES 12378-PeCDD	87.5	
123478-HxCDD	ND	92.9			ES 123478-HxCDD	83.5	
123678-HxCDD	202			J	ES 123678-HxCDD	83.8	
123789-HxCDD	EMPC		166	J	ES 123789-HxCDD	82.8	
1234678-HpCDD	3130				ES 1234678-HpCDD	84.3	
OCDD	21900				ES OCDD	72.9	
2378-TCDF	ND	58.9			ES 2378-TCDF	96.8	
12378-PeCDF	ND	74.4			ES 12378-PeCDF	92.2	
23478-PeCDF	ND	69.1			ES 23478-PeCDF	92	
123478-HxCDF	88			J	ES 123478-HxCDF	82.9	
123678-HxCDF	EMPC		66.7	J	ES 123678-HxCDF	81.6	
234678-HxCDF	EMPC		60.1	J	ES 234678-HxCDF	81.4	
123789-HxCDF	ND	63.4			ES 123789-HxCDF	84.5	
1234678-HpCDF	468			J	ES 1234678-HpCDF	83.7	
1234789-HpCDF	ND	73.4			ES 1234789-HpCDF	84.7	
OCDF	820			J	ES OCDF	75.6	
Totals					**Standard**	**CS/AS Recoveries**	
					CS 37Cl-2378-TCDD	90.5	
Total TCDD	ND		54.9		CS 12347-PeCDD	87.9	
Total PeCDD	ND	100	ND		CS 12346-PeCDF	88.6	
Total HxCDD	465		1180		CS 123469-HxCDF	82.3	
Total HpCDD	5670		5670		CS 1234689-HpCDF	84.5	
					AS 1368-TCDD	103	
Total TCDF	ND		86.7		AS 1368-TCDF	86.2	
Total PeCDF	ND		268				
Total HxCDF	686		957				
Total HpCDF	996		996				
Total PCDD/Fs	**30500**		**31900**				
WHO-2005 TEQs							
TEQ: ND=0	71.8		101				
TEQ: ND=DL/2	184	121	203				
TEQ: ND=DL	297	242	306				

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Sample ID: EMW-5S-10.0

Method 8290A

Client Data		Sample Data		Laboratory Data			
Name:	SLR International Corporation	Matrix:	Solids	Lab Project ID:	A5634	Date Received:	18-Jun-2013
Project ID:	101.00205.00019 Crowley	Weight/Volume:	0.0100 Kg	Lab Sample ID	A5634_11184_DF_020	Date Extracted:	29-Jul-2013
Date Collected:	13-Jun-2013	% Solids:	80.5 %	QC Batch No:	11184	Date Analyzed:	03-Aug-2013
		Split:	-	Dilution:	-	Time Analyzed:	04:29:34

Analyte	Conc. (pg/Kg)	DL (pg/Kg)	EMPC (pg/Kg)	Qualifiers	Standard	ES Recoveries	Qualifiers
2378-TCDD	ND	66.3			ES 2378-TCDD	89.8	
12378-PeCDD	ND	92.3			ES 12378-PeCDD	87.5	
123478-HxCDD	ND	82.5			ES 123478-HxCDD	87.6	
123678-HxCDD	ND	83.7			ES 123678-HxCDD	88.1	
123789-HxCDD	151			J	ES 123789-HxCDD	86	
1234678-HpCDD	739			J	ES 1234678-HpCDD	90.5	
OCDD	6030				ES OCDD	81.5	
2378-TCDF	ND	56.3			ES 2378-TCDF	100	
12378-PeCDF	ND	64.2			ES 12378-PeCDF	92	
23478-PeCDF	ND	60.6			ES 23478-PeCDF	92.6	
123478-HxCDF	ND	61.9			ES 123478-HxCDF	86.3	
123678-HxCDF	ND	58.2			ES 123678-HxCDF	85.7	
234678-HxCDF	ND	59.4			ES 234678-HxCDF	86.4	
123789-HxCDF	ND	71.4			ES 123789-HxCDF	86.8	
1234678-HpCDF	ND	51			ES 1234678-HpCDF	88.3	
1234789-HpCDF	ND	62.6			ES 1234789-HpCDF	87.1	
OCDF	ND	107			ES OCDF	83.3	
Totals					**Standard**	**CS/AS Recoveries**	
					CS 37Cl-2378-TCDD	90.8	
Total TCDD	231		389		CS 12347-PeCDD	85.3	
Total PeCDD	133		133		CS 12346-PeCDF	91.2	
Total HxCDD	397		867		CS 123469-HxCDF	87.1	
Total HpCDD	1850		1850		CS 1234689-HpCDF	88.5	
					AS 1368-TCDD	93.5	
Total TCDF	ND		251		AS 1368-TCDF	105	
Total PeCDF	ND	62.4	ND				
Total HxCDF	ND	62.4	ND				
Total HpCDF	ND	56.4	ND				
Total PCDD/Fs	**8630**		**9510**				
WHO-2005 TEQs							
TEQ: ND=0	24.3		24.3				
TEQ: ND=DL/2	138	118	138				
TEQ: ND=DL	252	237	252				

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A5634

ANALYTICAL PERSPECTIVES

CHAIN-OF-CUSTODY RECORD

PROJECT ID: 101.00205.00019 CROWLEY | P.O. No.: 101.00205.00019 | SAMPLER: Amanda Mangini (PRINTED NAME) (SIGNATURE)

RELINQUISHED BY: (SIGNATURE & PRINTED NAME)	DATE:	TIME:	RECEIVED BY: (SIGNATURE & PRINTED NAME)	DATE:	TIME:
Amanda Mangini	6/17/13	8:45	GREG LIGHT	6/17/13	8:45
RELINQUISHED BY: (SIGNATURE & PRINTED NAME)	DATE:	TIME:	RECEIVED BY: (SIGNATURE & PRINTED NAME)	DATE:	TIME:
GREG LIGHT	6/17/13	14:45			

PLEASE SEE NOTES ON THE BACK OF THE COC REGARDING THE SAMPLE ACCEPTANCE POLICY AND THE METHOD 8290 MS/MSD & DUP

REQUESTED TAT: 21 DAYS

SHIP TO: ANALYTICAL PERSPECTIVES, 2714 EXCHANGE DRIVE, WILMINGTON, NC 28405, PH.: 910-794-1613

METHOD OF SHIPMENT: FEDEX

SHIPMENT ID:

ATTN: YVES TONDEUR

QAPP REFERENCE: _____

SAMPLE ACCEPTANCE POLICY (ON BACK SIDE)

	SAMPLE ID	DATE	TIME	SAMPLE DESCRIPTION	MS/MSD	DUP	METHOD 8290	METHOD 1613	METHOD 1668A	METHOD 1668 B	METHOD 1668 C	PAHs BY HRMS	QUANTIC	USVOA	WHO2/WHO25	CONTAINER(S) QTY	CONTAINER(S) TYPE	MATRIX	
1	EB-28-1.0	6/10/13	0915	SOIL 1 40z Jar			X									1	4oz	SOIL	
2	EB-28-5.0		0925				X												
3	EB-28-7.5		0935				X												
*4	EB-28-10.0		0945				X												HOLD
*5	EB-45-5.0		1145				X												HOLD
6	EB-45-7.5		1150				X												
*7	EB-45-10.0		1155				X												HOLD

SPECIAL INSTRUCTIONS/COMMENTS: (PLEASE CIRCLE OPTION BELOW)

"DF ONLY" "DF & PCB" "DF & PAH" "DF & PCB & PAH"

"TRI – OCTA" "2,3,7,8-TCDD & F ONLY" "2,3,7,8-TCDD ONLY"

PLEASE SPECIFY TEFs: (PLEASE CHECK BOXES BELOW)

☐ "ITEFS" ☐ "WHO-98" ☒ "WHO-05" ☐ "MA-TEFS" ☐ "CT-TEFS"

SEND DOCUMENTATION & RESULTS TO:

NAME: MIKE STATON
COMPANY: SLR CONSULTING
ADDRESS: 22118 20TH AVE SE SUITE G202
CITY: BOTHELL
STATE: WA ZIP: 98021
PH.: 425-402-8021
E-MAIL: mstaton@slrconsulting.com

BILL TO: (☒ CHECK IF SAME)

NAME:
COMPANY:
ADDRESS:
CITY:
STATE: ZIP:
PH.:

AS634

ANALYTICAL PERSPECTIVES

CHAIN-OF-CUSTODY RECORD

PROJECT ID: 101.00205.00013 CROWLEY

P.O. NO.: 101.00205.00013

SAMPLER: Amanda Maynor (PRINTED NAME) (SIGNATURE)

RELINQUISHED BY: (SIGNATURE & PRINTED NAME)	DATE:	TIME:	RECEIVED BY: (SIGNATURE & PRINTED NAME)	DATE:	TIME:
Amanda Maynor	6/17/13	8:45	GREG LISH	6/17/13	8:45
RELINQUISHED BY: (SIGNATURE & PRINTED NAME)	DATE:	TIME:	RECEIVED BY: (SIGNATURE & PRINTED NAME)	DATE:	TIME:
GREG LISH	6/17/13	14:45			

PLEASE SEE NOTES ON THE BACK OF THE COC REGARDING THE SAMPLE ACCEPTANCE POLICY AND THE METHOD 8290 MS/MSD & DUP

REQUESTED TAT: 21 DAYS

SHIP TO: ANALYTICAL PERSPECTIVES
2714 EXCHANGE DRIVE
WILMINGTON, NC 28405
PH.: 910-794-1613

METHOD OF SHIPMENT:

SHIPMENT ID:

ATTN: YVES TONDEUR

QAPP REFERENCE:
SAMPLE ACCEPTANCE POLICY (ON BACK SIDE)

	SAMPLE ID	DATE	TIME	SAMPLE DESCRIPTION	MS/MSD	DUP	METHOD 8290	METHOD 1613	METHOD 1668A	METHOD 1668 B	METHOD 1668 C	PAHs BY HRMS	QUANTIC	USVOA	WHO2/WHO2S	CONTAINER(S) QTY	CONTAINER(S) TYPE	MATRIX	
8	EMW-35-7.5	6/11/13	1505	Soil 1 4oz jar			X									1	4 oz	Soil	HOLD
9	EMW-35-10.0	↓	1530	↓			↓									↓	↓	↓	
10	EMW-33-12.5	↓	1535	↓			↓									↓	↓	↓	HOLD
11	EMW-65-2.5	6/12/13	1300	↓			↓									↓	↓	↓	HOLD
12	EMW-65-5.0	↓	1310	↓			↓									↓	↓	↓	
13	EMW-65-7.5	↓	1320	↓			↓									↓	↓	↓	HOLD

SPECIAL INSTRUCTIONS/COMMENTS: (PLEASE CIRCLE OPTION BELOW)

"DF ONLY" "DF & PCB" "DF & PAH" "DF & PCB & PAH"

"TRI – OCTA" "2,3,7,8-TCDD & F ONLY" "2,3,7,8-TCDD ONLY"

PLEASE SPECIFY TEFS: (PLEASE CHECK BOXES BELOW)

☐ "ITEFS" ☐ "WHO-98" ☒ "WHO-05" ☐ "MA-TEFS" ☐ "CT-TEFS"

SEND DOCUMENTATION & RESULTS TO:

NAME:
COMPANY:
ADDRESS:
CITY:
STATE: ZIP:
PH.:
E-MAIL:

BILL TO: (☐ CHECK IF SAME)

NAME:
COMPANY:
ADDRESS:
CITY:
STATE: ZIP:
PH.:

AS634

ANALYTICAL PERSPECTIVES

CHAIN-OF-CUSTODY RECORD

PROJECT ID: 101.00205.0019 CROWLEY | P.O. NO.: 101.00205.0019 | SAMPLER: Amanda Meyer (PRINTED NAME) (SIGNATURE)

RELINQUISHED BY: (SIGNATURE & PRINTED NAME)	DATE:	TIME:	RECEIVED BY: (SIGNATURE & PRINTED NAME)	DATE:	TIME:
Amanda Meyer	4/17/13	8:45	GREG LUSH	4/17/13	8:45
GREG LUSH	4/17/13	14:45			

PLEASE SEE NOTES ON THE BACK OF THE COC REGARDING THE SAMPLE ACCEPTANCE POLICY AND THE METHOD 8290 MS/MSD & DUP

REQUESTED TAT: ___ DAYS

SHIP TO: ANALYTICAL PERSPECTIVES, 2714 EXCHANGE DRIVE, WILMINGTON, NC 28405, PH.: 910-794-1613

METHOD OF SHIPMENT: ____

SHIPMENT ID: ____

ATTN: YVES TONDEUR

QAPP REFERENCE: ____

SAMPLE ACCEPTANCE POLICY (ON BACK SIDE)

	SAMPLE ID	DATE	TIME	SAMPLE DESCRIPTION	MS/MSD	DUP	METHOD 8290	METHOD 1613	METHOD 1668A	METHOD 1668 B	METHOD 1668 C	PAHs BY HRMS	QUANTIC	U-SVOA	WHO-2/WHO-2S	CONTAINER(S) QTY	CONTAINER(S) TYPE	MATRIX	
14	EMW-9S-1.0		0755	SOIL 2 4oz jar			X									1	4 oz	SOIL	
15	EMW-9S-5.0		0815																
16*	EMW-9S-10.0		0835																HOLD
17*	EMW-5S-1.0		1150																HOLD
18	EMW-5S-2.5		1200																
19	EMW-5S-6.5		1215																
20*	EMW-5S-10.0		1230																HOLD

SPECIAL INSTRUCTIONS/COMMENTS: (PLEASE CIRCLE OPTION BELOW)

"DF ONLY" "DF & PCB" "DF & PAH" "DF & PCB & PAH"

"TRI – OCTA" "2,3,7,8-TCDD & F ONLY" "2,3,7,8-TCDD ONLY"

PLEASE SPECIFY TEFs: (PLEASE CHECK BOXES BELOW)

☐ "ITEFS" ☐ "WHO-98" ☒ "WHO-05" ☐ "MA-TEFS" ☐ "CT-TEFS"

SEND DOCUMENTATION & RESULTS TO:

NAME: ____
COMPANY: ____
ADDRESS: ____
CITY: ____
STATE: ____ ZIP: ____
PH.: ____
E-MAIL: ____

BILL TO: (☐ CHECK IF SAME)

NAME: ____
COMPANY: ____
ADDRESS: ____
CITY: ____
STATE: ____ ZIP: ____
PH.: ____

A5634

ANALYTICAL PERSPECTIVES

PAGE 1 OF 1

CHAIN-OF-CUSTODY RECORD

PROJECT ID: 101.00205.00019 Crowley P.O. No.: 101.00205.00019 SAMPLER: Amanda Mengniot (PRINTED NAME) (SIGNATURE) for MS

RELINQUISHED BY: (SIGNATURE & PRINTED NAME)	DATE:	TIME:	RECEIVED BY: (SIGNATURE & PRINTED NAME)	DATE:	TIME:
Mike Staton	6/20/13	8:45			
RELINQUISHED BY: (SIGNATURE & PRINTED NAME)	DATE:	TIME:	RECEIVED BY: (SIGNATURE & PRINTED NAME)	DATE:	TIME:

PLEASE SEE NOTES ON THE BACK OF THE COC REGARDING THE SAMPLE ACCEPTANCE POLICY AND THE METHOD 8290 MS/MSD & DUP

REQUESTED TAT: 21 DAYS

SHIP TO: ANALYTICAL PERSPECTIVES, 2714 EXCHANGE DRIVE, WILMINGTON, NC 28405, PH.: 910-794-1613

METHOD OF SHIPMENT: Fed Ex

SHIPMENT ID:

ATTN: YVES TONDEUR

QAPP REFERENCE: _____
SAMPLE ACCEPTANCE POLICY (ON BACK SIDE)

	SAMPLE ID	DATE	TIME	SAMPLE DESCRIPTION	MS/MSD	DUP	METHOD 8290	METHOD 1613	METHOD 1668A	METHOD 1668B	METHOD 1668C	PAHS BY HRMS	QUANTIC	U-SVOA	WHO-12/WHO-28	CONTAINER(S) QTY	CONTAINER(S) TYPE	MATRIX	
21.	EB-46-1.0	6/14/13	1130	Soil			X									1	4oz	Soil	
22.	EB-46-8.0	"	1240	Soil			X									"	"	"	
23.	EB-46-10	"	1250	Soil			X									"	"	"	Hold

SPECIAL INSTRUCTIONS/COMMENTS: (PLEASE CIRCLE OPTION BELOW)

"DF ONLY" (circled) "DF & PCB" "DF & PAH" "DF & PCB & PAH"

"TRI – OCTA" "2,3,7,8-TCDD & F ONLY" "2,3,7,8-TCDD ONLY"

PLEASE SPECIFY TEFs: (PLEASE CHECK BOXES BELOW)

☐ "ITEFS" ☐ "WHO-98" ☒ "WHO-05" ☐ "MA-TEFS" ☐ "CT-TEFS"

SEND DOCUMENTATION & RESULTS TO:

NAME: Mike Staton
COMPANY: SLR Consulting
ADDRESS: 2211B 20th Ave SE Suite F202
CITY: Bothell
STATE: WA ZIP: 98021
PH.: 425-402-8800
E-MAIL: MStaton@slrconsulting.com

BILL TO: (☑ CHECK IF SAME)

NAME:
COMPANY:
ADDRESS:
CITY:
STATE: ZIP:
PH.:

* Samples rec'd NOT on COC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Kurt Johnson, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

August 21, 2013

Mike Staton
SLR International Corp.
22118 20th Ave. SE., G-202
Bothell, WA 98021

Dear Mr. Staton:

Included are the results from the additional testing of material submitted on June 17, 2013 from the Crowley 8th Avenue Terminals 101.00205.00019, F&BI 306269 project. There are 5 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michele Costales Poquiz

Michele Costales Poquiz
Chemist

Enclosures
SLR0821R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on June 17, 2013 by Friedman & Bruya, Inc. from the SLR International Corp. Crowley 8th Avenue Terminals 101.00205.00019, F&BI 306269 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SLR International Corp.
306269-01	EMW-4D-2.5'
306269-02	EMW-4D-5.0'
306269-03	EMW-4D-7.5'
306269-04	EMW-4D-12.5'
306269-05	EMW-4D-15.0'
306269-06	EMW-4D-20.0'
306269-07	EMW-4D-25.0'
306269-08	EMW-4D-30.0'
306269-09	EMW-4D-35.0'
306269-10	EMW-14D-1.0'
306269-11	EMW-14D-2.5'
306269-12	EMW-14D-5.0'
306269-13	EMW-14D-7.5'
306269-14	EMW-14D-10.0'
306269-15	EMW-14D-12.5'
306269-16	EMW-14D-15.0'
306269-17	EMW-14D-20.0'
306269-18	EMW-14D-25.0'
306269-19	EMW-14D-30.0'
306269-20	EMW-14D-35.0'
306269-21	EMW-14D-40.0'
306269-22	EMW-14D-45.0'
306269-23	EMW-14D-50.0'
306269-24	Trip Blank

Semivolatile Organic Compounds by EPA Method 8270D SIM

The sample EMW-4D-20.0' was analyzed outside of the EPA recommended holding time of 14 days. The results have been flagged accordingly. However, it should be noted that the sample was stored at 6°C and there was likely no measurable loss of polynuclear aromatic hydrocarbons (PNAs)[1] prior to the time of extraction during the additional storage period of 31 days.

All other quality control requirements were acceptable.

[1] U.S. Environmental Protection Agency. *Sample Holding Time Reevaluation.* EPA/600/R-05/124, October 2005.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-4D-20.0'	Client:	SLR International Corp.
Date Received:	06/17/13	Project:	Crowley 101.00205.00019
Date Extracted:	08/01/13	Lab ID:	306269-06
Date Analyzed:	08/02/13	Data File:	080208.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	74	50	150
Benzo(a)anthracene-d12	93	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.00050
Acenaphthylene	0.00043
Acenaphthene	0.0018
Fluorene	0.00038
Phenanthrene	0.0040
Anthracene	0.00075
Fluoranthene	0.0082
Pyrene	0.0072
Benz(a)anthracene	0.0033
Chrysene	0.0040
Benzo(a)pyrene	0.0029
Benzo(b)fluoranthene	0.0055
Benzo(k)fluoranthene	0.0015
Indeno(1,2,3-cd)pyrene	0.0025
Dibenz(a,h)anthracene	0.00066
Benzo(g,h,i)perylene	0.0024

Note - Analysis performed outside the method or client-specified holding time requirement.

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	Not Applicable	Project:	Crowley 101.00205.00019
Date Extracted:	08/01/13	Lab ID:	03-1488 mb
Date Analyzed:	08/02/13	Data File:	080205.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	91	50	150
Benzo(a)anthracene-d12	115	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.00022
Acenaphthylene	<0.000091
Acenaphthene	<0.00014
Fluorene	<0.00015
Phenanthrene	<0.00032
Anthracene	<0.000088
Fluoranthene	<0.00028
Pyrene	<0.00026
Benz(a)anthracene	<0.00018
Chrysene	<0.00019
Benzo(a)pyrene	<0.00022
Benzo(b)fluoranthene	<0.00018
Benzo(k)fluoranthene	<0.00036
Indeno(1,2,3-cd)pyrene	<0.00062
Dibenz(a,h)anthracene	<0.00034
Benzo(g,h,i)perylene	<0.00034

Date of Report: 08/21/13
Date Received: 06/17/13
Project: Crowley 8th Avenue Terminals 101.00205.00019, F&BI 306269

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR PNA'S BY EPA METHOD 8270D SIM

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.17	85	90	58-121	6
Acenaphthylene	mg/kg (ppm)	0.17	93	98	54-121	5
Acenaphthene	mg/kg (ppm)	0.17	89	94	54-123	5
Fluorene	mg/kg (ppm)	0.17	94	98	56-127	4
Phenanthrene	mg/kg (ppm)	0.17	91	94	55-122	3
Anthracene	mg/kg (ppm)	0.17	88	92	50-120	4
Fluoranthene	mg/kg (ppm)	0.17	96	97	54-129	1
Pyrene	mg/kg (ppm)	0.17	98	104	53-127	6
Benz(a)anthracene	mg/kg (ppm)	0.17	91	92	51-115	1
Chrysene	mg/kg (ppm)	0.17	95	101	55-129	6
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	99	105	56-123	6
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	84	86	54-131	2
Benzo(a)pyrene	mg/kg (ppm)	0.17	78	80	51-118	3
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	90	94	49-148	4
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	88	91	50-141	3
Benzo(g,h,i)perylene	mg/kg (ppm)	0.17	87	91	52-131	4

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

306269

SAMPLE CHAIN OF CUSTODY

KJ 06-17-13 VSO/V1/DO4

Page # 1 of 3

Send Report To Mike Staton

Company SLR International Corporation

Address 22118 20th Ave. SE, Ste. G202

City, State, ZIP Bothell, WA 98021

Phone # 425-402-8800 Fax #

SAMPLERS (signature)

PROJECT NAME/NO. Crowley 8th Avenue Terminal 101.00205.00019

PO#

REMARKS NWTPH-Dx AFTER SILICA GEL CLEANUP

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☐ RUSH
- Rush charges authorized by

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

⊗=added per Mike Staton (jw 6/19/13)

✓=analyze per Mike Staton (jw 7/9/13)
V=extract & hold per Mike Staton (jw 7/9/13)
⊗=analyze per Mike Staton (jw 7/15/13)
*=analyze per Mike Staton (jw 7/24/13)
#=analyze per Mike Staton (jw 7/31/13)
⊛=extract & hold per Mike Staton (jw 7/31/13)
* (NP) per dlw 6-18-13

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Metals (priority pollutants)	PCBs by 8082	PAHs by 8270D SIM	Hex Cr by 7196A	Mercury by 1631E		Notes
EMW-16D-2.5'	01	6/17/13	0850	soil	10	⊗			⊗	⊗		⊗	⊗	⊗		⊗		Archive
EMW-16D-5.0'	02	6/17/13	0905	soil	10	X	✓		X	X		X	X	X		X		No GRO per Mike Staton
EMW-16D-7.5'	03	6/17/13	0910	soil	10	⊗			⊗	⊗		⊗	⊗	⊗		⊗		Archive
EMW-16D-12.5'	04	6/17/13	0930	soil	10									✓				Archive
EMW-16D-15.0'	05	6/17/13	0945	soil	10													Archive
EMW-16D-20.0'	06	6/17/13	1000	soil	10									★				Archive
EMW-16D-25.0'	07	6/17/13	1015	soil	10													Archive
EMW-16D-30.0'	08	6/17/13	1025	soil	10													Archive
EMW-16D-35.0'	09	6/17/13	1055	soil	10									⊛				Archive
EMW-14D-1.0'	10	6/17/13	1150	soil	10	X			X	X		X	X	X		X		

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Amanda Margrist	SLR	6/17/13	1645
Received by:	DJ VS	FXBI	"	"
Relinquished by:		Samples received at 6 °C		
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

306269

SAMPLE CHAIN OF CUSTODY K J 06-17-13 VS2/V1/D04

Page # 2 of 3

Send Report To Mike Stetson

Company SLR International Corporation

Address 22118 20th Ave. SE, Ste. 6202

City, State, ZIP Bothell, WA 98021

Phone # 425-402-8800 Fax #

SAMPLERS (signature)

PROJECT NAME/NO. Crowley 8th Avenue Terminals 101.00205.00019

PO#

REMARKS NWTPH-Dx AFTER SILICA GEL CLEANUP

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☐ RUSH
- Rush charges authorized by

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED: TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by8260	SVOCs by 8270	HFS	Metals (arsenic only)	PCBs	PAHs by 8270D-SIM	Hex Cr. by 7196A	Mercury by 1631E	Notes
EMW-14D-2.5'	11	6/17/13	1205	soil	10												Archive
EMW-14D-5.0'	12	6/17/13	1215	soil	10	X			X	X		X	X	X		X	~~Archive~~ AB
EMW-14D-7.5'	13	6/17/13	1230	soil	10												Archive
EMW-14D-10.0'	14	6/17/13	1240	soil	10	X			X	X		X	X	X		X	
EMW-14D-12.5'	15	6/17/13	1255	soil	10												Archive
EMW-14D-15.0'	16	6/17/13	1305	soil	10					✓		✓		✓		✓	Archive
EMW-14D-20.0'	17	6/17/13	1315	soil	10							✓					canceled per Mike S. per Archive
EMW-14D-25.0'	18	6/17/13	1325	soil	10					✓				✓			Archive
EMW-14D-30.0'	19	6/17/13	1335	soil	10							✓					canceled per Mike S. per Archive
EMW-14D-35.0'	20	6/17/13	1350	soil	10					✓				✓			Archive

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Amanda Magnuson	SLR	6/17/13	1645
Received by:	DJ VO	F+BE	11	11
Relinquished by:				
Received by:		Samples received at 6 °C		

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FORMS\COC\COC.DOC

306269

SAMPLE CHAIN OF CUSTODY

KJ 06-17-13

VS2/U1/ D04

Page # 3 of 3

Send Report To Mike Station

Company SLR International Corporation

Address 22118 20th Ave. SE, Ste. G202

City, State, ZIP Bothell, WA 98021

Phone # 425-402-8800 Fax #

SAMPLERS (signature)

PROJECT NAME/NO. Crowley 8th Avenue Terminals 101.00205.00019

PO#

REMARKS NWTPH-Dx AFTER SILICA GEL CLEANUP

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☐ RUSH
- Rush charges authorized by

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED: TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Metals (Priority Pollutants plus Ba)	PCBs by 8082	PAHs by 8270 SIM	Hex. Cr. by 7196A	Mercury by 1631E		Notes
EMW-14D-40.0'	21 J	6/17/13	1400	soil	10							✓						canceled per mike S. Archive
EMW-14D-45.0'	22	6/17/13	1425	soil	10													Archive
EMW-14D-50.0'	23	6/17/13	1435	soil	10					✓				*				Archive
TripBlank	24 B	–	–	water	2													added at lab 6-18-13

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FORMSVCOCVCOC.DOC

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Amanda Mengis	SLR	6/17/13	1645
Received by:		DD NO	F&BE	"	"
Relinquished by:					
Received by:			Samples received at 5.0 °C		