

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/30/13

Date Received: 09/25/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309446

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR DISSOLVED METALS USING EPA METHOD 200.8**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Beryllium	ug/L (ppb)	5	97	91	73-135	6
Chromium	ug/L (ppb)	20	100	94	80-119	6
Nickel	ug/L (ppb)	20	100	95	79-122	5
Zinc	ug/L (ppb)	50	98	93	76-124	5
Silver	ug/L (ppb)	5	104	99	80-116	5
Cadmium	ug/L (ppb)	5	99	96	83-113	3
Antimony	ug/L (ppb)	20	99	97	79-108	2
Barium	ug/L (ppb)	50	106	101	83-117	5
Thallium	ug/L (ppb)	5	103	103	78-116	0
Lead	ug/L (ppb)	10	100	97	83-115	3

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309446

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES FOR
DISSOLVED MERCURY
USING EPA METHOD 1631E**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Mercury	ug/L (ppb)	0.01	99	100	78-118	1

FRIEDMAN & BRUYA, INC.

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Date of Report: 10/30/13

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Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309446

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

Laboratory Code: 309420-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Mercury	ug/L (ppb)	0.01	<0.0015	96	99	63-132	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Mercury	ug/L (ppb)	0.01	103	78-118

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/30/13

Date Received: 09/25/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309446

**QUALITY ASSURANCE RESULTS
FROM THE ANALYSIS OF WATER SAMPLES FOR
TOTAL SUSPENDED SOLIDS
BY METHOD 2540D**

Laboratory Code: 309514-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
TSS	mg/L	<9.7	<9.7	nm	0-20

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
TSS	mg/L	50	83	91	61-131	9

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.



October 9, 2013

Michele Costales Poquiz
Friedman & Bruya
3012 16th Ave W
Seattle, WA 98119

RE: Project: 309446
ARI Job No.: XG65

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 ten water samples on September 26, 2013 under ARI job XG65. For further details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

The samples were analyzed for chloride and TDS, as requested on the COC.

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.

A handwritten signature in black ink, appearing to read "Cheronne Oreiro".

Cheronne Oreiro
Project Manager
(206) 695-6214
cheronneo@arilabs.com
www.arilabs.com

cc: eFile XG65

Enclosures



Cooler Receipt Form

ARI Client: Friedman + Bruyn
 COC No(s): _____ (NA)
 Assigned ARI Job No: XG65

Project Name: _____
 Delivered by: Fed-Ex UPS Courier Hand Delivered Other: Postal Express
 Tracking No: 4551055 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) 0.9
 Time: 1045
 If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 7087952
 Cooler Accepted by: AV Date: 9/26/13 Time: 1045

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: AV Date: 9/26/13 Time: 1222

**** 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" (< 2 mm)
			Peabubbles → "pb" (2 to < 4 mm)
			Large → "lg" (4 to < 6 mm)
			Headspace → "hs" (> 6 mm)

Sample ID Cross Reference Report



ARI Job No: XG65
Client: Friedman and Bruya, Inc
Project Event: 309446
Project Name: N/A

Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1. EMW-3S-092513	XG65A	13-20638	Water	09/25/13 09:55	09/26/13 10:45
2. EMW-4D-092513	XG65B	13-20639	Water	09/25/13 10:40	09/26/13 10:45
3. CMW-1-092513	XG65C	13-20640	Water	09/25/13 11:20	09/26/13 10:45
4. EMW-15D-092513	XG65D	13-20641	Water	09/25/13 10:12	09/26/13 10:45
5. CMW-4-092513	XG65E	13-20642	Water	09/25/13 10:55	09/26/13 10:45
6. CMW-6-092513	XG65F	13-20643	Water	09/25/13 09:53	09/26/13 10:45
7. EMW-14D-092513	XG65G	13-20644	Water	09/25/13 10:37	09/26/13 10:45
8. EMW-13S-092513	XG65H	13-20645	Water	09/25/13 11:18	09/26/13 10:45
9. EMW-56D-092513	XG65I	13-20646	Water	09/25/13 12:07	09/26/13 10:45
10. EMW-10D-092513	XG65J	13-20647	Water	09/25/13 13:01	09/26/13 10:45

SAMPLE RESULTS-CONVENTIONALS
XG65-Friedman and Bruya, Inc



Matrix: Water
Data Release Authorized:
Reported: 10/09/13

A handwritten signature in black ink, appearing to be a stylized name, located to the right of the matrix and reporting information.

Project: NA
Event: 309446
Date Sampled: 09/25/13
Date Received: 09/26/13

Client ID: EMW-3S-092513
ARI ID: 13-20638 XG65A

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/27/13 092713#1	SM2540C	mg/L	200	11,700
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	1,000	7,210

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XG65-Friedman and Bruya, Inc



Matrix: Water
Data Release Authorized:
Reported: 10/09/13

A handwritten signature in black ink, appearing to be 'JW', is written over the 'Data Release Authorized:' text.

Project: NA
Event: 309446
Date Sampled: 09/25/13
Date Received: 09/26/13

Client ID: EMW-4D-092513
ARI ID: 13-20639 XG65B

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/27/13 092713#1	SM2540C	mg/L	100	4,890
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	1,000	2,690

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XG65-Friedman and Bruya, Inc



Matrix: Water
Data Release Authorized:
Reported: 10/09/13

A handwritten signature in black ink, appearing to be 'J. J.', written over the 'Data Release Authorized' text.

Project: NA
Event: 309446
Date Sampled: 09/25/13
Date Received: 09/26/13

Client ID: CMW-1-092513
ARI ID: 13-20640 XG65C

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/27/13 092713#1	SM2540C	mg/L	200	15,700
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	2,000	11,100

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XG65-Friedman and Bruya, Inc



Matrix: Water
Data Release Authorized:
Reported: 10/09/13

A handwritten signature in black ink, appearing to be 'M. J. ...', written over the 'Data Release Authorized' text.

Project: NA
Event: 309446
Date Sampled: 09/25/13
Date Received: 09/26/13

Client ID: EMW-15D-092513
ARI ID: 13-20641 XG65D

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/27/13 092713#1	SM2540C	mg/L	200	7,320
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	1,000	3,980

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XG65-Friedman and Bruya, Inc



Matrix: Water
Data Release Authorized:
Reported: 10/09/13

A handwritten signature in black ink, appearing to be 'JF', is written over the 'Data Release Authorized' text.

Project: NA
Event: 309446
Date Sampled: 09/25/13
Date Received: 09/26/13

Client ID: CMW-4-092513
ARI ID: 13-20642 XG65E

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/27/13 092713#1	SM2540C	mg/L	200	11,400
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	1,000	6,680

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XG65-Friedman and Bruya, Inc



Matrix: Water
Data Release Authorized
Reported: 10/09/13

A handwritten signature in black ink, appearing to be 'MJK', written over the 'Data Release Authorized' text.

Project: NA
Event: 309446
Date Sampled: 09/25/13
Date Received: 09/26/13


Client ID: CMW-6-092513
ARI ID: 13-20643 XG65F

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/27/13 092713#1	SM2540C	mg/L	200	23,600
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	1,000	7,180

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XG65-Friedman and Bruya, Inc



Matrix: Water
Data Release Authorized: 
Reported: 10/09/13

Project: NA
Event: 309446
Date Sampled: 09/25/13
Date Received: 09/26/13

Client ID: EMW-14D-092513
ARI ID: 13-20644 XG65G

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/27/13 092713#1	SM2540C	mg/L	200	8,340
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	1,000	4,720

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XG65-Friedman and Bruya, Inc



Matrix: Water
Data Release Authorized:
Reported: 10/09/13

A handwritten signature in black ink, appearing to be 'W. Friedman', written over the 'Data Release Authorized' text.

Project: NA
Event: 309446
Date Sampled: 09/25/13
Date Received: 09/26/13


Client ID: EMW-13S-092513
ARI ID: 13-20645 XG65H

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/27/13 092713#1	SM2540C	mg/L	200	9,800
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	1,000	5,570

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XG65-Friedman and Bruya, Inc



Matrix: Water
Data Release Authorized 
Reported: 10/09/13

Project: NA
Event: 309446
Date Sampled: 09/25/13
Date Received: 09/26/13

Client ID: EMW-56D-092513
ARI ID: 13-20646 XG65I

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/27/13 092713#1	SM2540C	mg/L	100	4,900
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	1,000	2,820

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XG65-Friedman and Bruya, Inc



Matrix: Water
Data Release Authorized:
Reported: 10/09/13

A handwritten signature in black ink, appearing to be a stylized name, located to the right of the matrix information.

Project: NA
Event: 309446
Date Sampled: 09/25/13
Date Received: 09/26/13

Client ID: EMW-10D-092513
ARI ID: 13-20647 XG65J

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/27/13 092713#1	SM2540C	mg/L	100	4,760
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	1,000	2,360

RL Analytical reporting limit
U Undetected at reported detection limit

LAB CONTROL RESULTS-CONVENTIONALS
XG65-Friedman and Bruya, Inc



Matrix: Water
Data Release Authorized
Reported: 10/09/13


A handwritten signature in black ink, appearing to be a stylized name, located between the matrix information and the project details.

Project: NA
Event: 309446
Date Sampled: NA
Date Received: NA

Analyte/Method	QC ID	Date	Units	LCS	Spike Added	Recovery
Total Dissolved Solids SM2540C	ICVL	09/27/13	mg/L	496	500	99.2%

METHOD BLANK RESULTS-CONVENTIONALS
XG65-Friedman and Bruya, Inc




Matrix: Water
Data Release Authorized: 
Reported: 10/09/13

Project: NA
Event: 309446
Date Sampled: NA
Date Received: NA

Analyte	Method	Date	Units	Blank	ID
Total Dissolved Solids	SM2540C	09/27/13	mg/L	< 5.0 U	
Chloride	SM4500-CLE	10/04/13	mg/L	< 1.0 U	FB
FB	Filtration Blank				

STANDARD REFERENCE RESULTS-CONVENTIONALS
XG65-Friedman and Bruya, Inc



Matrix: Water
Data Release Authorized: 
Reported: 10/09/13

Project: NA
Event: 309446
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Method	Date	Units	SRM	True Value	Recovery
Chloride ERA #411010	SM4500-CLE	10/04/13	mg/L	5.0	5.0	100.0%



October 15, 2013

Michele Poquiz
Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282

SDG: F130926A
Project Name: 309446

Ms Poquiz,

Attached is the report associated with five (5) aqueous samples submitted dissolved arsenic, barium, copper, and selenium analyses on September 25, 2013. All samples were received on September 26, 2013 in a sealed cooler at 1.0°C. Dissolved metals analysis was performed via inductively coupled plasma dynamic reaction cell mass spectrometry (ICP-DRC-MS). Any analytical issues associated with the analyses are addressed in the following report.

If you have any questions, please feel free to contact me at your convenience.

Sincerely,

A handwritten signature in black ink, appearing to read "J. Maute", written over a white background.

Jeremy Maute
Project Coordinator
Applied Speciation and Consulting, LLC

Applied Speciation and Consulting, LLC

Report prepared for:

Michele Poquiz
Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029

SDG: F130926A
Project Name: 309446

October 15, 2013

1. Sample Reception

Five (5) aqueous samples were submitted for dissolved arsenic, barium, copper, and selenium analyses on September 25, 2013. All samples were received in acceptable condition on September 26, 2013 in a sealed container at 1.0°C.

The samples submitted for dissolved metals analyses were filtered and preserved prior to reception at Applied Speciation and Consulting.

The samples were received in a laminar flow clean hood void of trace metals contamination and ultra-violet radiation. The samples were stored in a secure enclosed container, known to be free from trace metals contamination, until the digestion and analysis could be performed.

The client instructed Applied Speciation and Consulting to cancel all analyses for the sample identified as EMW-56D-092513. The chain of custody form reflects the sample ID as received; however, no results were reported for this sample in accordance with the client's instructions.

2. Sample Preparation

All sample preparation is performed in laminar flow clean hoods known to be free from trace metals contamination. All applied water for dilutions and sample preservatives are monitored for contamination to account for any biases associated with the sample results.

Dissolved As, Ba, Cu, and Se Analysis by ICP-DRC-MS The samples submitted for dissolved metals analyses were filtered and preserved prior to reception at Applied Speciation and Consulting. All preserved samples were digested in accordance with EPA Method 200.8 on October 8, 2013. Results for dissolved copper were reported

from an EPA Method 200.8 digest performed on October 10, 2013. All sample digests were then analyzed via inductively coupled plasma dynamic reaction cell mass spectrometry (ICP-DRC-MS).

3. Sample Analysis

All sample analysis is precluded by a minimum of a five-point calibration curve spanning the entire concentration range of interest. Calibration curves are performed at the beginning of each analytical day. All calibration curves, associated with each species of interest, are standardized by linear regression resulting in a response factor. All sample results are **instrument blank corrected** to account for any operational biases associated with the analytical platform.

Prior to sample analysis, all calibration curves are verified using second source standards which are identified as initial calibration verification standards (ICV).

Ongoing instrument performance is identified by the analysis of continuing calibration verification standards (CCV) and continuing calibration blanks (CCB) at a minimum interval of every ten analytical runs.

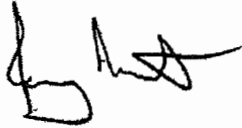
Dissolved As, Ba, Cu, and Se Analysis by ICP-DRC-MS All samples for dissolved arsenic, barium, and selenium analysis were analyzed by inductively coupled plasma dynamic reaction cell mass spectrometry (ICP-DRC-MS) on October 9, 2013. All samples for dissolved copper analysis were analyzed on October 11, 2013, using the same analytical platform. Aliquots of each sample are introduced into a radio frequency (RF) plasma where energy-transfer processes cause desolvation, atomization, and ionization. The ions are extracted from the plasma through a differentially-pumped vacuum interface and travel through a pressurized chamber (DRC) containing a specific reactive gas which preferentially reacts with interfering ions of the same target mass to charge ratios (m/z). A solid-state detector detects ions transmitted through the mass analyzer, on the basis of their mass-to-charge ratio (m/z), and the resulting current is processed by a data handling system.

4. Analytical Issues

The overall analyses went very well and no significant analytical issues were encountered. All quality control parameters associated with these samples were within acceptance limits.

If you have any questions or concerns regarding this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'J. Maute', with a stylized flourish extending to the right.

Jeremy Maute
Project Coordinator
Applied Speciation and Consulting, LLC

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: October 15, 2013

Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Sampled: 9/25/2013

Date Received: 9/26/2013

Client Sample ID
EMW-15D-092513

Laboratory Sample ID
EMW-15D-092513

Analyte	Method	eMDL	Reporting	
			Limit	Concentration
Diss As	EPA 200.8	0.012	0.20	0.711
Diss Ba	EPA 200.8	0.14	0.20	66.5
Diss Cu	EPA 200.8	0.038	0.40	0.461
Diss Se	EPA 200.8	0.029	0.20	0.108 J

All results are reported in $\mu\text{g/L}$ and reflect the applied dilution
J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: October 15, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Sampled: 9/25/2013 Date Received: 9/26/2013

Client Sample ID
CMW-4-092513

Laboratory Sample ID
CMW-4-092513

Analyte	Method	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	0.012	0.20	184
Diss Ba	EPA 200.8	0.14	0.20	320
Diss Cu	EPA 200.8	0.038	0.40	6.08
Diss Se	EPA 200.8	0.029	0.20	0.185 J

All results are reported in µg/L and reflect the applied dilution
J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: October 15, 2013

Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Sampled: 9/25/2013

Date Received: 9/26/2013

Client Sample ID
EMW-13S-092513

Laboratory Sample ID
EMW-13S-092513

Analyte	Method	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	0.012	0.20	16.9
Diss Ba	EPA 200.8	0.14	0.20	27.1
Diss Cu	EPA 200.8	0.038	0.40	6.77
Diss Se	EPA 200.8	0.029	0.20	0.178 J

All results are reported in µg/L and reflect the applied dilution
J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: October 15, 2013

Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Sampled: 9/25/2013

Date Received: 9/26/2013

Client Sample ID
EMW-10D-092513

Laboratory Sample ID
EMW-10D-092513

Analyte	Method	eMDL	Reporting	
			Limit	Concentration
Diss As	EPA 200.8	0.012	0.20	0.579
Diss Ba	EPA 200.8	0.14	0.20	98.2
Diss Cu	EPA 200.8	0.038	0.40	0.443
Diss Se	EPA 200.8	0.029	0.20	0.131 J

All results are reported in µg/L and reflect the applied dilution
J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
 Contact: Michele Poquiz

Date: October 15, 2013

Report Generated by: Jeremy Maute
 Applied Speciation and Consulting, LLC

Quality Control Summary - Preparation Blank Summary

Analyte (µg/L)	PBW1	PBW2	PBW3	PBW4	Mean	StdDev	eMDL*	eMDL 5x	Sample RL
Diss As	0.013	0.010	0.014	0.019	0.014	0.004	0.002	0.012	0.20
Diss Ba	0.09	0.02	0.05	0.13	0.07	0.05	0.027	0.14	0.20
Diss Cu	0.018	0.048	0.038	0.035	0.035	0.013	0.008	0.038	0.40
Diss Se	0.006	0.015	0.020	-0.002	0.010	0.010	0.006	0.029	0.20

eMDL = Estimated Method Detection Limit
 * Please see narrative regarding eMDL calculations

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: October 15, 2013

Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Quality Control Summary - Certified Reference Material

Analyte (µg/L)	LCS	True Value	Result	Recovery
Total As	LCS	400.0	372.2	93.0
Total As	TMDA-70	40.7	38.9	95.6
Total Ba	LCS	400.0	375.2	93.8
Total Ba	TMDA-70	309	289	93.4
Total Cu	LCS	400.0	393.2	98.3
Total Cu	TMDA-70	399	402	100.7
Total Se	LCS	400.0	371.3	92.8
Total Se	TMDA-70	25.9	22.1	85.2

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: October 15, 2013

Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Quality Control Summary - Matrix Duplicates

Analyte (µg/L)	Sample ID	Rep 1	Rep 2	Mean	RPD
Diss As	EMW-10D-092513	0.579	0.563	0.571	2.8
Diss Ba	EMW-10D-092513	98.19	102.0	100.1	3.8
Diss Cu	EMW-10D-092513	0.443	0.457	0.450	3.0
Diss Se	EMW-10D-092513	0.131 J	0.112 J	0.122	15.8

J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
 Contact: Michele Poquiz

Date: October 15, 2013
 Report Generated by: Jeremy Maute
 Applied Speciation and Consulting, LLC

Quality Control Summary - Matrix Spike/ Matrix Spike Duplicate

Analyte (µg/L)	Sample ID	Spike		MS Result	Recovery	Spike Conc	MSD Result	Recovery	RPD
		Conc	Result						
Diss As	EMW-10D-092513	400.0	420.4	105.0	400.0	432.9	108.1	2.9	
Diss Ba	EMW-10D-092513	400.0	497.0	99.2	400.0	500.3	100.1	0.8	
Diss Cu	EMW-10D-092513	400.0	401.6	100.3	400.0	419.3	104.7	4.3	
Diss Se	EMW-10D-092513	400.0	403.5	100.8	400.0	423.0	105.7	4.7	

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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November 5, 2013

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

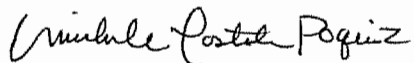
Dear Mr. Staton:

Included are the results from the testing of material submitted on September 24, 2013 from the 8th Ave Terminals Inc. Site, Crowley 101.00205.00030, F&BI 309420 project. There are 37 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
Chemist

Enclosures
SLR1105R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 24, 2013 by Friedman & Bruya, Inc. from the SLR International Corp. 8th Ave Terminals Inc. Site, Crowley 101.00205.00030, F&BI 309420 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
309420-01	EMW-12S-092413
309420-02	EMW-16D-092413
309420-03	CMW-5-092413
309420-04	CMW-3-092413
309420-05	CMW-2-092413
309420-06	HC-4-092413
309420-07	EMW-8S-092413
309420-08	EMW-89S-092413
309420-09	EMW-5S-092413

Total Metals by EPA Method 200.8

The reporting limits for copper, zinc and antimony were raised due to potential low level laboratory contamination.

Compounds in the sample matrix interfered with the quantitation of arsenic and selenium. The results have been flagged accordingly.

The internal standard associated with several analytes exceeded acceptance criteria for the samples EMW-16D-092413, CMW-3-092413, and CMW-2-092413. The samples were diluted and reanalyzed. The results for the full strength and the dilution analyses are included.

Dissolved Metals by EPA Method 200.8

The reporting limits for copper, zinc and antimony were raised due to potential low level laboratory contamination.

Compounds in the sample matrix interfered with the quantitation of arsenic and selenium. The results have been flagged accordingly.

The internal standard associated with several analytes exceeded acceptance criteria for the samples EMW-16D-092413, CMW-3-092413, and CMW-2-092413. The samples were diluted and reanalyzed. The results for the full strength and the dilution analyses are included.

Total Mercury by EPA Method 1631E

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

The reporting limit was raised due to potential low level laboratory contamination.

Dissolved Mercury by EPA Method 1631E

The reporting limit was raised due to potential low level laboratory contamination.

Total Suspended Solids by Method 2540D

All quality control requirements were acceptable.

Total Dissolved Solids by Method 2540C

The samples were sent to Analytical Resources, Inc. (ARI) for analysis. The report generated by ARI is enclosed.

Chloride by Method SM4500

The samples were sent to ARI for analysis. The report generated by ARI is enclosed.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-12S-092413	Client:	SLR International Corp.
Date Received:	09/24/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/27/13	Lab ID:	309420-01
Date Analyzed:	09/30/13	Data File:	309420-01.013
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

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

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.601
Nickel	3.34
Copper	<1.25
Zinc	<2.50
Arsenic	0.321 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	10.3
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-16D-092413	Client:	SLR International Corp.
Date Received:	09/24/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/27/13	Lab ID:	309420-02
Date Analyzed:	09/30/13	Data File:	309420-02.059
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	53 vo	60	125
Indium	39 vo	60	125
Holmium	41 vo	60	125

Analyte:	Concentration ug/L (ppb)
Copper	2.62 J
Zinc	2.67 J
Cadmium	<0.0940 J
Antimony	<1.25 J
Thallium	<0.0740 J
Lead	<0.144 J

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-16D-092413	Client:	SLR International Corp.
Date Received:	09/24/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/27/13	Lab ID:	309420-02 x10
Date Analyzed:	09/30/13	Data File:	309420-02 x10.022
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	81	60	125
Indium	78	60	125
Holmium	77	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	1.93
Nickel	8.64
Copper	<12.5
Zinc	<25.0
Arsenic	34.9 ip
Selenium	143 ip
Silver	<0.640
Cadmium	<0.940
Antimony	<12.5
Barium	249
Thallium	<0.740
Lead	<1.44

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ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	CMW-5-092413	Client:	SLR International Corp.
Date Received:	09/24/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/27/13	Lab ID:	309420-03
Date Analyzed:	09/30/13	Data File:	309420-03.041
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	118	60	125
Indium	97	60	125
Holmium	95	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.65
Nickel	1.43
Copper	<1.25
Zinc	<2.50
Arsenic	59.0 ip
Selenium	1.17 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	23.6
Thallium	<0.0740
Lead	<0.144

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ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	CMW-3-092413	Client:	SLR International Corp.
Date Received:	09/24/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/27/13	Lab ID:	309420-04
Date Analyzed:	09/30/13	Data File:	309420-04.042
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	56 vo	60	125
Indium	54 vo	60	125
Holmium	54 vo	60	125

Analyte:	Concentration ug/L (ppb)
Copper	3.53 J
Zinc	8.64 J
Cadmium	<0.0940 J
Antimony	<1.25 J
Thallium	<0.0740 J
Lead	1.11 J

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	CMW-3-092413	Client:	SLR International Corp.
Date Received:	09/24/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/27/13	Lab ID:	309420-04 x10
Date Analyzed:	09/30/13	Data File:	309420-04 x10.023
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	84	60	125
Indium	85	60	125
Holmium	86	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	2.63
Nickel	6.72
Copper	4.37
Zinc	13.4
Arsenic	29.2 ip
Selenium	69.1 ip
Silver	<0.640
Cadmium	<0.940
Antimony	<12.5
Barium	271
Thallium	<0.740
Lead	<1.44

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ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	CMW-2-092413	Client:	SLR International Corp.
Date Received:	09/24/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/27/13	Lab ID:	309420-05
Date Analyzed:	09/30/13	Data File:	309420-05.060
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	55 vo	60	125
Indium	53 vo	60	125
Holmium	56 vo	60	125

Analyte:	Concentration ug/L (ppb)
Copper	3.34 J
Zinc	6.18 J
Cadmium	<0.0940 J
Antimony	2.34 J
Thallium	<0.0740 J
Lead	0.722 J

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ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	CMW-2-092413	Client:	SLR International Corp.
Date Received:	09/24/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/27/13	Lab ID:	309420-05 x10
Date Analyzed:	09/30/13	Data File:	309420-05 x10.024
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	85	60	125
Indium	84	60	125
Holmium	85	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	3.00
Nickel	<4.60
Copper	<12.5
Zinc	<25.0
Arsenic	19.7 ip
Selenium	58.8 ip
Silver	<0.640
Cadmium	<0.940
Antimony	<12.5
Barium	101
Thallium	<0.740
Lead	<1.44

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ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	HC-4-092413	Client:	SLR International Corp.
Date Received:	09/24/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/27/13	Lab ID:	309420-06
Date Analyzed:	09/30/13	Data File:	309420-06.038
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	91	60	125
Indium	98	60	125
Holmium	93	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.626
Nickel	4.31
Copper	2.15
Zinc	3.50
Arsenic	0.470 ip
Selenium	0.853 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	15.8
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-8S-092413	Client:	SLR International Corp.
Date Received:	09/24/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/27/13	Lab ID:	309420-07
Date Analyzed:	09/30/13	Data File:	309420-07.043
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	101	60	125
Indium	95	60	125
Holmium	96	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	2.16
Nickel	1.50
Copper	<1.25
Zinc	6.03
Arsenic	44.0 ip
Selenium	1.32 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	41.3
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-89S-092413	Client:	SLR International Corp.
Date Received:	09/24/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/27/13	Lab ID:	309420-08
Date Analyzed:	09/30/13	Data File:	309420-08.039
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	101	60	125
Indium	91	60	125
Holmium	90	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.05
Nickel	1.82
Copper	<1.25
Zinc	<2.50
Arsenic	2.18 ip
Selenium	0.721 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	16.9
Thallium	<0.0740
Lead	<0.144

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ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-5S-092413	Client:	SLR International Corp.
Date Received:	09/24/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/27/13	Lab ID:	309420-09
Date Analyzed:	09/30/13	Data File:	309420-09.040
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

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

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.975
Nickel	1.84
Copper	<1.25
Zinc	<2.50
Arsenic	2.15 ip
Selenium	0.649 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	16.8
Thallium	<0.0740
Lead	<0.144

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ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SLR International Corp.
Date Received:	Not Applicable	Project:	Crowley 101.00205.00030
Date Extracted:	09/27/13	Lab ID:	I3-618 mb
Date Analyzed:	09/30/13	Data File:	I3-618 mb.011
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	98	60	125
Indium	101	60	125
Holmium	98	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	<0.138
Nickel	<0.460
Copper	<1.25
Zinc	<2.50
Arsenic	<0.150
Selenium	<0.560
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	<0.260
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-12S-092413	Client:	SLR International Corp.
Date Received:	09/24/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/30/13	Lab ID:	309420-01
Date Analyzed:	10/02/13	Data File:	309420-01.058
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	97	60	125
Indium	92	60	125
Holmium	94	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.408
Nickel	3.26
Copper	<1.25
Zinc	3.42
Arsenic	0.293 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	10.1
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-16D-092413	Client:	SLR International Corp.
Date Received:	09/24/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/30/13	Lab ID:	309420-02
Date Analyzed:	10/02/13	Data File:	309420-02.064
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	53 vo	60	125
Indium	39 vo	60	125
Holmium	38 vo	60	125

Analyte:	Concentration ug/L (ppb)
Copper	<1.25 J
Cadmium	<0.0940 J
Antimony	<1.25 J
Thallium	<0.0740 J
Lead	<0.144 J

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ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-16D-092413	Client:	SLR International Corp.
Date Received:	09/24/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/30/13	Lab ID:	309420-02 x10
Date Analyzed:	10/02/13	Data File:	309420-02 x10.048
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	70	60	125
Indium	67	60	125
Holmium	70	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	2.50
Nickel	9.59
Copper	<12.5
Zinc	<25.0
Arsenic	35.5 ip
Selenium	131 ip
Silver	<0.640
Cadmium	<0.940
Antimony	<12.5
Barium	242
Thallium	<0.740
Lead	<1.44

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ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	CMW-5-092413	Client:	SLR International Corp.
Date Received:	09/24/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/30/13	Lab ID:	309420-03
Date Analyzed:	10/02/13	Data File:	309420-03.065
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	113	60	125
Indium	96	60	125
Holmium	103	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	2.04
Nickel	1.68
Copper	<1.25
Zinc	2.56
Arsenic	53.9 ip
Selenium	2.80 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	22.5
Thallium	<0.0740
Lead	<0.144

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ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	CMW-3-092413	Client:	SLR International Corp.
Date Received:	09/24/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/30/13	Lab ID:	309420-04
Date Analyzed:	10/02/13	Data File:	309420-04.066
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	54 vo	60	125
Indium	50 vo	60	125
Holmium	50 vo	60	125

Analyte:	Concentration ug/L (ppb)
Copper	3.29 J
Cadmium	<0.0940 J
Antimony	4.09 J
Thallium	<0.0740 J
Lead	<0.144 J

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	CMW-3-092413	Client:	SLR International Corp.
Date Received:	09/24/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/30/13	Lab ID:	309420-04 x10
Date Analyzed:	10/02/13	Data File:	309420-04 x10.050
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	79	60	125
Indium	77	60	125
Holmium	80	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	1.97
Nickel	6.31
Copper	<12.5
Zinc	<25.0
Arsenic	29.0 ip
Selenium	65.0 ip
Silver	<0.640
Cadmium	<0.940
Antimony	<12.5
Barium	274
Thallium	<0.740
Lead	<1.44

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	CMW-2-092413	Client:	SLR International Corp.
Date Received:	09/24/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/30/13	Lab ID:	309420-05
Date Analyzed:	10/02/13	Data File:	309420-05.067
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	57 vo	60	125
Indium	53 vo	60	125
Holmium	54 vo	60	125

Analyte:	Concentration ug/L (ppb)
Copper	2.64 J
Cadmium	<0.0940 J
Antimony	<1.25 J
Thallium	<0.0740 J
Lead	<0.144 J

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	CMW-2-092413	Client:	SLR International Corp.
Date Received:	09/24/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/30/13	Lab ID:	309420-05 x10
Date Analyzed:	10/02/13	Data File:	309420-05 x10.052
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	74	60	125
Indium	72	60	125
Holmium	74	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	3.37
Nickel	5.75
Copper	<12.5
Zinc	<25.0
Arsenic	21.4 ip
Selenium	61.7 ip
Silver	<0.640
Cadmium	<0.940
Antimony	<12.5
Barium	97.9
Thallium	<0.740
Lead	<1.44

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	HC-4-092413	Client:	SLR International Corp.
Date Received:	09/24/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/30/13	Lab ID:	309420-06
Date Analyzed:	10/02/13	Data File:	309420-06.059
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	93	60	125
Indium	88	60	125
Holmium	92	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.497
Nickel	5.29
Copper	2.19
Zinc	5.22
Arsenic	0.541 ip
Selenium	1.15 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	18.3
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-8S-092413	Client:	SLR International Corp.
Date Received:	09/24/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/30/13	Lab ID:	309420-07
Date Analyzed:	10/02/13	Data File:	309420-07.068
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	104	60	125
Indium	94	60	125
Holmium	99	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.95
Nickel	1.52
Copper	<1.25
Zinc	4.17
Arsenic	40.7 ip
Selenium	1.84 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	42.0
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-89S-092413	Client:	SLR International Corp.
Date Received:	09/24/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/30/13	Lab ID:	309420-08
Date Analyzed:	10/02/13	Data File:	309420-08.060
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	100	60	125
Indium	85	60	125
Holmium	88	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.08
Nickel	2.42
Copper	<1.25
Zinc	<2.50
Arsenic	2.20 ip
Selenium	0.802 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	17.8
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-5S-092413	Client:	SLR International Corp.
Date Received:	09/24/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/30/13	Lab ID:	309420-09
Date Analyzed:	10/02/13	Data File:	309420-09.061
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	114	60	125
Indium	98	60	125
Holmium	98	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.861
Nickel	2.10
Copper	<1.25
Zinc	<2.50
Arsenic	2.04 ip
Selenium	0.761 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	16.2
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SLR International Corp.
Date Received:	Not Applicable	Project:	Crowley 101.00205.00030
Date Extracted:	09/30/13	Lab ID:	I3-622 mb
Date Analyzed:	10/02/13	Data File:	I3-622 mb.044
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	83	60	125
Indium	83	60	125
Holmium	85	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	<0.138
Nickel	<0.460
Copper	<1.25
Zinc	<2.50
Arsenic	<0.150
Selenium	<0.560
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	<0.260
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/05/13

Date Received: 09/24/13

Project: 8th Ave Terminals Inc. Site, Crowley 101.00205.00030, F&BI 309420

Date Extracted: 09/30/13

Date Analyzed: 10/03/13

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL MERCURY**

USING EPA METHOD 1631E

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Total Mercury</u>
EMW-12S-092413 309420-01	<0.0015
EMW-16D-092413 309420-02	<0.0015
CMW-5-092413 309420-03	<0.0015
CMW-3-092413 309420-04	0.0043
CMW-2-092413 309420-05	0.0024
HC-4-092413 309420-06	<0.0015
EMW-8S-092413 309420-07	<0.0015
EMW-89S-092413 309420-08	<0.0015
EMW-5S-092413 309420-09	<0.0015
Method Blank	<0.0015

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/05/13

Date Received: 09/24/13

Project: 8th Ave Terminals Inc. Site, Crowley 101.00205.00030, F&BI 309420

Date Extracted: 09/30/13

Date Analyzed: 10/01/13

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR DISSOLVED MERCURY
USING EPA METHOD 1631E**

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Dissolved Mercury</u>
EMW-12S-092413 309420-01	<0.0015
EMW-16D-092413 309420-02	<0.0015
CMW-5-092413 309420-03	<0.0015
CMW-3-092413 309420-04	<0.0015
CMW-2-092413 309420-05	<0.0015
HC-4-092413 309420-06	<0.0015
EMW-8S-092413 309420-07	<0.0015
EMW-89S-092413 309420-08	<0.0015
EMW-5S-092413 309420-09	<0.0015
Method Blank	<0.0015

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/05/13

Date Received: 09/24/13

Project: 8th Ave Terminals Inc. Site, Crowley 101.00205.00030, F&BI 309420

Date Extracted: NA

Date Analyzed: 09/26/13

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL SUSPENDED SOLIDS
BY METHOD 2540D**

Results Reported as mg/L (ppm)

<u>Sample ID</u> Laboratory ID	Total Suspended <u>Solids</u>
EMW-12S-092413 309420-01	<9.7
EMW-16D-092413 309420-02	11
CMW-5-092413 309420-03	24
CMW-3-092413 309420-04	<9.7
CMW-2-092413 309420-05	<9.7
HC-4-092413 309420-06	<9.7
EMW-8S-092413 309420-07	<9.7
EMW-89S-092413 309420-08	<9.7
EMW-5S-092413 309420-09	<9.7
Method Blank	<9.7

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/05/13

Date Received: 09/24/13

Project: 8th Ave Terminals Inc. Site, Crowley 101.00205.00030, F&BI 309420

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

Laboratory Code: 309420-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Beryllium	ug/L (ppb)	5	<0.0980	103	101	67-145	2
Chromium	ug/L (ppb)	20	0.601	101	103	64-132	2
Nickel	ug/L (ppb)	20	3.34	97	95	61-128	2
Copper	ug/L (ppb)	20	<1.25	99	98	63-124	1
Zinc	ug/L (ppb)	50	<2.50	98	95	55-141	3
Arsenic	ug/L (ppb)	10	0.321 ip	104	103	60-150	1
Selenium	ug/L (ppb)	5	<0.560 ip	105	106	43-178	1
Silver	ug/L (ppb)	5	<0.0640	96	99	71-115	3
Cadmium	ug/L (ppb)	5	<0.0940	102	100	83-116	2
Antimony	ug/L (ppb)	20	<1.25	101	101	62-125	0
Barium	ug/L (ppb)	50	10.3	103 b	100 b	79-126	3 b
Thallium	ug/L (ppb)	5	<0.0740	98	96	73-119	2
Lead	ug/L (ppb)	10	<0.144	96	95	79-121	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Beryllium	ug/L (ppb)	5	104	73-135
Chromium	ug/L (ppb)	20	106	80-119
Nickel	ug/L (ppb)	20	105	79-122
Copper	ug/L (ppb)	20	113	81-119
Zinc	ug/L (ppb)	50	102	76-124
Arsenic	ug/L (ppb)	10	99	80-111
Selenium	ug/L (ppb)	5	103	81-119
Silver	ug/L (ppb)	5	106	80-116
Cadmium	ug/L (ppb)	5	103	83-113
Antimony	ug/L (ppb)	20	102	79-108
Barium	ug/L (ppb)	50	105	83-117
Thallium	ug/L (ppb)	5	102	78-116
Lead	ug/L (ppb)	10	99	83-115

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/05/13

Date Received: 09/24/13

Project: 8th Ave Terminals Inc. Site, Crowley 101.00205.00030, F&BI 309420

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR DISSOLVED METALS USING EPA METHOD 200.8**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Beryllium	ug/L (ppb)	5	97	91	73-135	6
Chromium	ug/L (ppb)	20	100	94	80-119	6
Nickel	ug/L (ppb)	20	100	95	79-122	5
Copper	ug/L (ppb)	20	98	95	81-119	3
Zinc	ug/L (ppb)	50	98	93	76-124	5
Arsenic	ug/L (ppb)	10	96	92	80-111	4
Selenium	ug/L (ppb)	5	104	92	81-119	12
Silver	ug/L (ppb)	5	104	99	80-116	5
Cadmium	ug/L (ppb)	5	99	96	83-113	3
Antimony	ug/L (ppb)	20	99	97	79-108	2
Barium	ug/L (ppb)	50	106	101	83-117	5
Thallium	ug/L (ppb)	5	103	103	78-116	0
Lead	ug/L (ppb)	10	100	97	83-115	3

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/05/13

Date Received: 09/24/13

Project: 8th Ave Terminals Inc. Site, Crowley 101.00205.00030, F&BI 309420

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

Laboratory Code: 309420-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Mercury	ug/L (ppb)	0.01	<0.0015	96	99	63-132	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Mercury	ug/L (ppb)	0.01	103	78-118

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/05/13

Date Received: 09/24/13

Project: 8th Ave Terminals Inc. Site, Crowley 101.00205.00030, F&BI 309420

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES FOR
DISSOLVED MERCURY
USING EPA METHOD 1631E**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Mercury	ug/L (ppb)	0.01	99	100	78-118	1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/05/13

Date Received: 09/24/13

Project: 8th Ave Terminals Inc. Site, Crowley 101.00205.00030, F&BI 309420

**QUALITY ASSURANCE RESULTS
FROM THE ANALYSIS OF WATER SAMPLES FOR
TOTAL SUSPENDED SOLIDS
BY METHOD 2540D**

Laboratory Code: 309420-06 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
TSS	mg/L	<9.7	<9.7	nm	0-20

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
TSS	mg/L	50	94	94	61-131	0

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

RECEIVED
OCT 11 2013

October 9, 2013

Michele Costales Poquiz
Friedman & Bruya
3012 16th Ave W
Seattle, WA 98119

RE: Project: 309420
ARI Job No.: XG50

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 nine water samples on September 25, 2013 under ARI job XG50. For further details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

The samples were analyzed for chloride and TDS, as requested on the COC.

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.

A handwritten signature in black ink, appearing to read "Cheronne Oreiro", written over a faint circular stamp or watermark.

Cheronne Oreiro
Project Manager
(206) 695-6214
cheronneo@arilabs.com
www.arilabs.com

cc: eFile XG50

Enclosures

SAMPLE CHAIN OF CUSTODY

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 mipoquiz@friedmanandbruya.com

SUBCONTRACTOR Analytical Resources, Inc. (ARI)	
PROJECT NAME/NO. 309420	PO # C-557
REMARKS Please e-mail results ELECTRONIC DATA REQUESTED (EIM)	

Page # 1 of 1

TURNAROUND TIME <input checked="" type="checkbox"/> Standard Turnaround <input type="checkbox"/> RUSH Rush charges authorized by: _____	SAMPLE DISPOSAL <input type="checkbox"/> Dispose after 30 days <input type="checkbox"/> Return samples <input type="checkbox"/> Will call with instructions Samples Received at <u> </u> °C
--	--

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED								Notes		
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Hexavalent Cr by 7196A	Total Organic Carbon by 9060M		TDS by 2540C	Chloride by SM4500
EMW-12S-092413		9/24/13	0859	water	2								X			
EMW-16D-092413			0954										X			
CMW-5-092413			0900										X			
CMW-3-092413			0951										X			
CMW-2-092413			1030										X			
HC-4-092413			1155										X			
EMW-8S-092413			1221										X			
EMW-89S-092413			1300										X			
EMW-5S-092413			1335										X			

Friedman & Bruya, Inc. 3012 16th Avenue West Seattle, WA 98119-2029 Ph. (206) 285-8282 Fax (206) 283-5044	SIGNATURE <i>Michele Costales Poquiz</i> Relinquished by: Received by: Relinquished by: Received by:	PRINT NAME Michele Costales Poquiz A. Volgardsen	COMPANY F&B	DATE 9/25/13 9/25/13	TIME 11:20AM 1315
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Cooler Receipt Form

ARI Client: Friedman + Bruya
COC No(s): _____ (NA)
Assigned ARI Job No: X 650

Project Name: _____
Delivered by: Fed-Ex UPS Courier Hand Delivered Other: Postal Express
Tracking No: 4554107 (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) 3.3
Time: 1314

If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 90877992

Cooler Accepted by: AV Date: 9/25/13 Time: 1315

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: _____

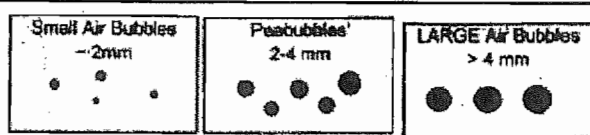
Samples Logged by: _____ Date: 9/25/13 Time: 1344

**** 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" (< 2 mm)
Peabubbles → "pb" (2 to < 4 mm)
Large → "lg" (4 to < 6 mm)
Headspace → "hs" (> 6 mm)

Sample ID Cross Reference Report



ARI Job No: XG50
Client: Friedman & Bruya
Project Event: 309420
Project Name: N/A

Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1. EMW-12S-092413	XG50A	13-20515	Water	09/24/13 08:59	09/25/13 13:15
2. EMW-16D-092413	XG50B	13-20516	Water	09/24/13 09:54	09/25/13 13:15
3. CMW-5-092413	XG50C	13-20517	Water	09/24/13 09:00	09/25/13 13:15
4. CMW-3-092413	XG50D	13-20518	Water	09/24/13 09:51	09/25/13 13:15
5. CMW-2-092413	XG50E	13-20519	Water	09/24/13 10:30	09/25/13 13:15
6. HC-4-092413	XG50F	13-20520	Water	09/24/13 11:55	09/25/13 13:15
7. EMW-8S-092413	XG50G	13-20521	Water	09/24/13 12:21	09/25/13 13:15
8. EMW-89S-092413	XG50H	13-20522	Water	09/24/13 13:00	09/25/13 13:15
9. EMW-5S-092413	XG50I	13-20523	Water	09/24/13 13:35	09/25/13 13:15

SAMPLE RESULTS-CONVENTIONALS
XG50-Friedman & Bruya



Matrix: Water
Data Release Authorized:
Reported: 10/09/13

A handwritten signature in black ink, appearing to be 'J. Friedman', written over the 'Data Release Authorized' text.

Project: NA
Event: 309420
Date Sampled: 09/24/13
Date Received: 09/25/13

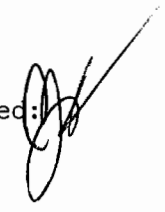
Client ID: EMW-12S-092413
ARI ID: 13-20515 XG50A

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/27/13 092713#1	SM2540C	mg/L	5.0	208
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	2.0	12.0

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XG50-Friedman & Bruya



Matrix: Water
Data Release Authorized: 
Reported: 10/09/13

Project: NA
Event: 309420
Date Sampled: 09/24/13
Date Received: 09/25/13


Client ID: EMW-16D-092413
ARI ID: 13-20516 XG50B

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/27/13 092713#1	SM2540C	mg/L	200	20,800
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	2,000	12,600

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XG50-Friedman & Bruya



Matrix: Water
Data Release Authorized: 
Reported: 10/09/13

Project: NA
Event: 309420
Date Sampled: 09/24/13
Date Received: 09/25/13

Client ID: ~~CMW~~-5-092413
ARI ID: 13-20517 XG50C

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/27/13 092713#1	SM2540C	mg/L	5.0	304
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	5.0	20.8

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XG50-Friedman & Bruya



Matrix: Water
Data Release Authorized:
Reported: 10/09/13

A handwritten signature in black ink, appearing to be a stylized name, located between the matrix information and the project details.

Project: NA
Event: 309420
Date Sampled: 09/24/13
Date Received: 09/25/13


Client ID: CMW-3-092413
ARI ID: 13-20518 XG50D

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/27/13 092713#1	SM2540C	mg/L	100	10,700
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	1,000	8,010

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XG50-Friedman & Bruya



Matrix: Water
Data Release Authorized: 
Reported: 10/09/13

Project: NA
Event: 309420
Date Sampled: 09/24/13
Date Received: 09/25/13

Client ID: CMW-2-092413
ARI ID: 13-20519 XG50E

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/27/13 092713#1	SM2540C	mg/L	200	9,000
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	1,000	5,170

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XG50-Friedman & Bruya



Matrix: Water
Data Release Authorized:
Reported: 10/09/13

A handwritten signature in black ink, appearing to be 'J. Friedman', written over the 'Data Release Authorized' text.

Project: NA
Event: 309420
Date Sampled: 09/24/13
Date Received: 09/25/13

Client ID: HC-4-092413
ARI ID: 13-20520 XG50F

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/27/13 092713#1	SM2540C	mg/L	10.0	322
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	5.0	17.3

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XG50-Friedman & Bruya



Matrix: Water
Data Release Authorized:
Reported: 10/09/13

A handwritten signature in black ink, appearing to be 'WJ' or similar, written over the 'Data Release Authorized' text.

Project: NA
Event: 309420
Date Sampled: 09/24/13
Date Received: 09/25/13

Client ID: EMW-8S-092413
ARI ID: 13-20521 XG50G

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/27/13 092713#1	SM2540C	mg/L	5.0	292
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	1.0	8.8

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XG50-Friedman & Bruya



Matrix: Water
Data Release Authorized:
Reported: 10/09/13

A handwritten signature in black ink, appearing to be a stylized name, located to the right of the matrix information.

Project: NA
Event: 309420
Date Sampled: 09/24/13
Date Received: 09/25/13


Client ID: EMW-89S-092413
ARI ID: 13-20522 XG50H

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/27/13 092713#1	SM2540C	mg/L	10.0	354
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	2.0	12.8

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XG50-Friedman & Bruya



Matrix: Water
Data Release Authorized: 
Reported: 10/09/13

Project: NA
Event: 309420
Date Sampled: 09/24/13
Date Received: 09/25/13

Client ID: EMW-5S-092413
ARI ID: 13-20523 XG50I

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/27/13 092713#1	SM2540C	mg/L	10.0	347
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	2.0	13.1

RL Analytical reporting limit
U Undetected at reported detection limit

MS/MSD RESULTS-CONVENTIONALS
XG50-Friedman & Bruya



Matrix: Water
Data Release Authorized:
Reported: 10/09/13

A handwritten signature in black ink, appearing to be 'JF', written over the 'Data Release Authorized' text.

Project: NA
Event: 309420
Date Sampled: 09/24/13
Date Received: 09/25/13


Analyte	Method	Date	Units	Sample	Spike	Spike Added	Recovery
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ARI ID: XG50A Client ID: EMW-12S-092413

Chloride	SM4500-CLE	10/04/13	mg/L	12.0	36.2	25.0	96.8%
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REPLICATE RESULTS-CONVENTIONALS
XG50-Friedman & Bruya



Matrix: Water
Data Release Authorized: 
Reported: 10/09/13

Project: NA
Event: 309420
Date Sampled: 09/24/13
Date Received: 09/25/13

Analyte	Method	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: XG50A Client ID: EMW-12S-092413						
Chloride	SM4500-CLE	10/04/13	mg/L	12.0	11.7	2.5%
ARI ID: XG50B Client ID: EMW-16D-092413						
Total Dissolved Solids	SM2540C	09/27/13	mg/L	20,800	22,400	7.4%

LAB CONTROL RESULTS-CONVENTIONALS
XG50-Friedman & Bruya



Matrix: Water
Data Release Authorized:
Reported: 10/09/13


A handwritten signature in black ink, appearing to be 'J.B.', written over the 'Data Release Authorized:' text.

Project: NA
Event: 309420
Date Sampled: NA
Date Received: NA

Analyte/Method	QC ID	Date	Units	LCS	Spike Added	Recovery
Total Dissolved Solids SM2540C	ICVL	09/27/13	mg/L	496	500	99.2%

METHOD BLANK RESULTS-CONVENTIONALS
XG50-Friedman & Bruya



Matrix: Water
Data Release Authorized: 
Reported: 10/09/13


Project: NA
Event: 309420
Date Sampled: NA
Date Received: NA

Analyte	Method	Date	Units	Blank	ID
Total Dissolved Solids	SM2540C	09/27/13	mg/L	< 5.0 U	
Chloride	SM4500-CLE	10/04/13	mg/L	< 1.0 U	FB

FB Filtration Blank

STANDARD REFERENCE RESULTS-CONVENTIONALS
XG50-Friedman & Bruya



Matrix: Water
Data Release Authorized: 
Reported: 10/09/13

Project: NA
Event: 309420
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Method	Date	Units	SRM	True Value	Recovery
Chloride ERA #411010	SM4500-CLE	10/04/13	mg/L	5.0	5.0	100.0%

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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November 5, 2013

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

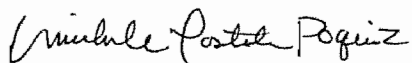
Dear Mr. Staton:

Included are the results from the testing of material submitted on October 1, 2013 from the 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310013 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
Chemist

Enclosures
SLR1105R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 1, 2013 by Friedman & Bruya, Inc. from the SLR International Corp. 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310013 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
310013-01	EMW-15D-100113
310013-02	EMW-3S-100113
310013-03	SLR-6-100113
310013-04	HC-20-100113
310013-05	EMW-13S-100113
310013-06	CMW-6-100113
310013-07	EMW-10D-100113
310013-08	EMW-56D-100113
310013-09	EMW-4D-100113
310013-10	CMW-2-100113
310013-11	SLR-7-100113
310013-12	TB-100113

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.

Volatile Compounds by EPA Method 8260C

The presence of methylene chloride in the sample EMW-4D-100113 is likely due to laboratory contamination. The result has 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 bromomethane. This analyte was not identified in the samples, therefore the results are valid.

Semivolatile Organic Compounds by EPA Method 8270D

The calibration result for 4,6-dinitro-2-methylphenol fell outside of acceptance criteria for the samples SLR-6-100113, EMW-10D-100113 and SLR-7-100113. The values reported are estimates.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

The presence of bis(2-ethylhexyl) phthalate in the samples and the method blank 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 SLR-7-100113. The results have been flagged accordingly.

The relative percent difference (RPD) for the LCS/LCSD failed high for 2,4-dimethylphenol and 2,4-dinitrophenol. These analytes were not identified in the samples, therefore the results are valid.

Semivolatile Organic Compounds by EPA Method 8270D SIM

All quality control requirements were acceptable.

Polychlorinated Biphenyls as Aroclor 1016/1260 by EPA Method 8082A

All quality control requirements were acceptable.

Total Metals by EPA Method 200.8

Compounds in the sample matrix interfered with the quantitation of arsenic and selenium. The results have been flagged accordingly.

The internal standard associated with several analytes exceeded acceptance criteria for the samples EMW-15D-100113, EMW-3S-100113, EMW-13S-100113, CMW-6-100113, and EMW-4D-100113. The samples were diluted and reanalyzed. The results for the full strength and the dilution analyses are included.

Dissolved Metals by EPA Method 200.8

Arsenic, selenium and copper were not reported. Please see the report issued by Applied Speciation and Consulting (ASC) for results for these analytes.

The internal standard associated with several analytes exceeded acceptance criteria for the samples EMW-15D-100113, EMW-3S-100113, EMW-13S-100113, CMW-6-100113, and EMW-4D-100113. The samples were diluted and reanalyzed. The results for the full strength and the dilution analyses are included.

Total Mercury by EPA Method 1631E

The reporting limit was raised due to potential low level laboratory contamination.

Dissolved Mercury by EPA Method 1631E

The reporting limit was raised due to potential low level laboratory contamination.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Total Suspended Solids by Method 2540D

All quality control requirements were acceptable.

Total Dissolved Solids by Method 2540C

The samples were sent to Analytical Resources, Inc. (ARI) for analysis. The report generated by ARI is enclosed.

Chloride by Method SM4500

The samples were sent to ARI for analysis. The report generated by ARI is enclosed.

Dissolved Metals by ICP-DRC-MS

The samples were sent to Applied Speciation and Consulting (ASC) for analysis. The report generated by ASC is enclosed.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/05/13

Date Received: 10/01/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310013

Date Extracted: 10/07/13

Date Analyzed: 10/07/13

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

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	Surrogate (% Recovery) (Limit 51-134)
EMW-15D-100113 310013-01	<12	80
EMW-3S-100113 310013-02	<12	79
SLR-6-100113 310013-03	<12	79
HC-20-100113 310013-04	<12	80
EMW-13S-100113 310013-05	<12	79
CMW-6-100113 310013-06	<12	81
EMW-10D-100113 310013-07	<12	78
EMW-56D-100113 310013-08	<12	76
EMW-4D-100113 310013-09	<12	76
CMW-2-100113 310013-10	<12	74
SLR-7-100113 310013-11	<12	76
Method Blank 03-1960 MB	<12	76

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/05/13

Date Received: 10/01/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310013

Date Extracted: 10/03/13

Date Analyzed: 10/11/13

**RESULTS FROM THE ANALYSIS OF WATER 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 as ug/L (ppb)**

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> (% Recovery) (Limit 51-134)
EMW-15D-100113 310013-01	<6.9	<52	100
EMW-3S-100113 310013-02	<6.9	<52	98
SLR-6-100113 310013-03	27 x	210	96
HC-20-100113 310013-04	<6.9	<52	95
EMW-13S-100113 310013-05	<6.9	<52	88
CMW-6-100113 310013-06	<6.9	<52	99
EMW-10D-100113 310013-07	<6.9	<52	97
EMW-56D-100113 310013-08	<6.9	<52	88
EMW-4D-100113 310013-09	<6.9	<52	92
CMW-2-100113 310013-10	<6.9	<52	104
SLR-7-100113 310013-11	<6.9	<52	109
Method Blank 03-1982 MB	<6.9	<52	84

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-15D-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/08/13	Lab ID:	310013-01
Date Analyzed:	10/08/13	Data File:	100813.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	100	50	150
4-Bromofluorobenzene	102	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 j
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:	EMW-3S-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/08/13	Lab ID:	310013-02
Date Analyzed:	10/08/13	Data File:	100814.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	102	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 j
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:	SLR-6-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/08/13	Lab ID:	310013-03
Date Analyzed:	10/08/13	Data File:	100815.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	102	50	150
4-Bromofluorobenzene	101	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 j
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:	HC-20-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/08/13	Lab ID:	310013-04
Date Analyzed:	10/08/13	Data File:	100816.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	101	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 j
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:	EMW-13S-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/08/13	Lab ID:	310013-05
Date Analyzed:	10/08/13	Data File:	100817.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	101	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 j
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:	CMW-6-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/08/13	Lab ID:	310013-06
Date Analyzed:	10/08/13	Data File:	100818.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	102	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 j
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:	EMW-10D-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/08/13	Lab ID:	310013-07
Date Analyzed:	10/08/13	Data File:	100819.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	101	50	150
4-Bromofluorobenzene	102	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 j
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:	EMW-56D-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/08/13	Lab ID:	310013-08
Date Analyzed:	10/08/13	Data File:	100820.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	102	50	150
4-Bromofluorobenzene	104	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 j
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:	EMW-4D-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/08/13	Lab ID:	310013-09
Date Analyzed:	10/08/13	Data File:	100821.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	101	50	150
4-Bromofluorobenzene	100	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	3.2 lc	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 j
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: CMW-2-100113	Client: SLR International Corp.
Date Received: 10/01/13	Project: Crowley 101.00205.00030
Date Extracted: 10/08/13	Lab ID: 310013-10
Date Analyzed: 10/08/13	Data File: 100822.D
Matrix: Water	Instrument: GCMS9
Units: ug/L (ppb)	Operator: JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	101	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 j
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:	SLR-7-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/08/13	Lab ID:	310013-11
Date Analyzed:	10/08/13	Data File:	100823.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	102	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 j
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:	TB-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/08/13	Lab ID:	310013-12
Date Analyzed:	10/08/13	Data File:	100824.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	101	50	150
4-Bromofluorobenzene	101	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 j
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 101.00205.00030
Date Extracted:	10/08/13	Lab ID:	03-1996 mb
Date Analyzed:	10/08/13	Data File:	100812.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	100	50	150
4-Bromofluorobenzene	101	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 j
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 Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-15D-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	310013-01
Date Analyzed:	10/04/13	Data File:	100414.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	58	32	162
Phenol-d6	37	10	170
Nitrobenzene-d5	104	50	150
2-Fluorobiphenyl	103	43	158
2,4,6-Tribromophenol	136	43	146
Terphenyl-d14	114	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.33 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID: EMW-3S-100113	Client: SLR International Corp.
Date Received: 10/01/13	Project: Crowley 101.00205.00030
Date Extracted: 10/03/13	Lab ID: 310013-02
Date Analyzed: 10/04/13	Data File: 100415.D
Matrix: Water	Instrument: GCMS8
Units: ug/L (ppb)	Operator: VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	63	32	162
Phenol-d6	36	10	170
Nitrobenzene-d5	91	50	150
2-Fluorobiphenyl	90	43	158
2,4,6-Tribromophenol	117	43	146
Terphenyl-d14	119	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.25 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	SLR-6-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	310013-03
Date Analyzed:	10/07/13	Data File:	100712.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	57	32	162
Phenol-d6	32	10	170
Nitrobenzene-d5	91	50	150
2-Fluorobiphenyl	91	43	158
2,4,6-Tribromophenol	108	43	146
Terphenyl-d14	109	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	0.13
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38 ca
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.36 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID: HC-20-100113	Client: SLR International Corp.
Date Received: 10/01/13	Project: Crowley 101.00205.00030
Date Extracted: 10/03/13	Lab ID: 310013-04
Date Analyzed: 10/04/13	Data File: 100417.D
Matrix: Water	Instrument: GCMS8
Units: ug/L (ppb)	Operator: VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	58	32	162
Phenol-d6	37	10	170
Nitrobenzene-d5	96	50	150
2-Fluorobiphenyl	94	43	158
2,4,6-Tribromophenol	128	43	146
Terphenyl-d14	118	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.40 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID: EMW-13S-100113	Client: SLR International Corp.
Date Received: 10/01/13	Project: Crowley 101.00205.00030
Date Extracted: 10/03/13	Lab ID: 310013-05
Date Analyzed: 10/04/13	Data File: 100423.D
Matrix: Water	Instrument: GCMS8
Units: ug/L (ppb)	Operator: VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	48	32	162
Phenol-d6	36	10	170
Nitrobenzene-d5	101	50	150
2-Fluorobiphenyl	103	43	158
2,4,6-Tribromophenol	99	43	146
Terphenyl-d14	115	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	0.57	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	0.43
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	0.45
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.41 fb
2-Methylnaphthalene	0.18	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	CMW-6-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	310013-06
Date Analyzed:	10/04/13	Data File:	100418.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	63	32	162
Phenol-d6	43	10	170
Nitrobenzene-d5	104	50	150
2-Fluorobiphenyl	106	43	158
2,4,6-Tribromophenol	116	43	146
Terphenyl-d14	121	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	0.18	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.42 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-10D-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	310013-07
Date Analyzed:	10/07/13	Data File:	100713.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	60	32	162
Phenol-d6	38	10	170
Nitrobenzene-d5	95	50	150
2-Fluorobiphenyl	97	43	158
2,4,6-Tribromophenol	127	43	146
Terphenyl-d14	127	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38 ca
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.30 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-56D-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	310013-08
Date Analyzed:	10/04/13	Data File:	100420.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	62	32	162
Phenol-d6	39	10	170
Nitrobenzene-d5	100	50	150
2-Fluorobiphenyl	103	43	158
2,4,6-Tribromophenol	137	43	146
Terphenyl-d14	139	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.31 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID: EMW-4D-100113	Client: SLR International Corp.
Date Received: 10/01/13	Project: Crowley 101.00205.00030
Date Extracted: 10/03/13	Lab ID: 310013-09
Date Analyzed: 10/04/13	Data File: 100421.D
Matrix: Water	Instrument: GCMS8
Units: ug/L (ppb)	Operator: VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	44	32	162
Phenol-d6	34	10	170
Nitrobenzene-d5	84	50	150
2-Fluorobiphenyl	90	43	158
2,4,6-Tribromophenol	121	43	146
Terphenyl-d14	106	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	0.27	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.36 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	CMW-2-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	310013-10
Date Analyzed:	10/04/13	Data File:	100424.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	63	32	162
Phenol-d6	38	10	170
Nitrobenzene-d5	93	50	150
2-Fluorobiphenyl	95	43	158
2,4,6-Tribromophenol	123	43	146
Terphenyl-d14	140	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	0.24	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	0.070
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.52 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	SLR-7-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	310013-11
Date Analyzed:	10/07/13	Data File:	100708.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	68	32	162
Phenol-d6	35	10	170
Nitrobenzene-d5	103	50	150
2-Fluorobiphenyl	113	43	158
2,4,6-Tribromophenol	115	43	146
Terphenyl-d14	139 J	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	0.26	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38 ca
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086 J
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.31 J fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044 J
Hexachlorocyclopentadiene	<0.094		

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 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	03-1980 mb
Date Analyzed:	10/04/13	Data File:	100407.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	44	32	162
Phenol-d6	30	10	170
Nitrobenzene-d5	96	50	150
2-Fluorobiphenyl	100	43	158
2,4,6-Tribromophenol	118	43	146
Terphenyl-d14	119	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.19 lc
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-15D-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	310013-01
Date Analyzed:	10/04/13	Data File:	100419.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	115	50	150
Benzo(a)anthracene-d12	119	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.0074
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	<0.0028
Fluoranthene	0.0047
Pyrene	0.0054
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-3S-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	310013-02
Date Analyzed:	10/04/13	Data File:	100420.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	101	50	150
Benzo(a)anthracene-d12	104	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.0061
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	<0.0028
Fluoranthene	<0.0046
Pyrene	0.0037
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	SLR-6-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	310013-03
Date Analyzed:	10/04/13	Data File:	100421.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	108	50	150
Benzo(a)anthracene-d12	117	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.0040
Acenaphthylene	0.0051
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	<0.0028
Fluoranthene	0.0053
Pyrene	0.0061
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	HC-20-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	310013-04
Date Analyzed:	10/04/13	Data File:	100422.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	100	50	150
Benzo(a)anthracene-d12	106	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.0065
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	<0.0028
Fluoranthene	0.0073
Pyrene	0.0065
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-13S-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	310013-05
Date Analyzed:	10/05/13	Data File:	100429.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	107	50	150
Benzo(a)anthracene-d12	111	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.62
Acenaphthylene	0.011
Acenaphthene	0.82
Fluorene	0.57
Phenanthrene	0.62
Anthracene	0.21
Fluoranthene	0.24
Pyrene	0.13
Benz(a)anthracene	0.017
Chrysene	0.025
Benzo(a)pyrene	0.012
Benzo(b)fluoranthene	0.018
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	0.0081
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	0.0082

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	CMW-6-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	310013-06
Date Analyzed:	10/04/13	Data File:	100423.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	112	50	150
Benzo(a)anthracene-d12	116	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.0050
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	0.0052
Fluoranthene	0.0056
Pyrene	0.0066
Benz(a)anthracene	0.0045
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-10D-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	310013-07
Date Analyzed:	10/04/13	Data File:	100424.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	110	50	150
Benzo(a)anthracene-d12	115	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.010
Acenaphthylene	<0.0024
Acenaphthene	1.8
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	<0.0028
Fluoranthene	<0.0046
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-56D-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	310013-08
Date Analyzed:	10/04/13	Data File:	100425.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

	% Recovery:	Lower Limit:	Upper Limit:
Surrogates:			
Anthracene-d10	113	50	150
Benzo(a)anthracene-d12	115	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.010
Acenaphthylene	<0.0024
Acenaphthene	1.9
Fluorene	0.0052
Phenanthrene	0.0068
Anthracene	<0.0028
Fluoranthene	<0.0046
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-4D-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	310013-09
Date Analyzed:	10/05/13	Data File:	100426.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	103	50	150
Benzo(a)anthracene-d12	105	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.004
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	<0.0028
Fluoranthene	0.0048
Pyrene	0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	CMW-2-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	310013-10
Date Analyzed:	10/05/13	Data File:	100428.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	105	50	150
Benzo(a)anthracene-d12	116	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.004
Acenaphthylene	0.0033
Acenaphthene	0.013
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	0.0063
Fluoranthene	0.0072
Pyrene	0.0076
Benz(a)anthracene	0.0057
Chrysene	0.0098
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	0.0079
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	0.0093

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	SLR-7-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	310013-11
Date Analyzed:	10/05/13	Data File:	100427.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	119	50	150
Benzo(a)anthracene-d12	125	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.004
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	<0.0028
Fluoranthene	<0.0046
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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:	10/03/13	Lab ID:	03-1981 mb
Date Analyzed:	10/04/13	Data File:	100403.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	101	50	150
Benzo(a)anthracene-d12	109	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.004
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	<0.0028
Fluoranthene	<0.0046
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EMW-15D-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/04/13	Lab ID:	310013-01 1/0.25
Date Analyzed:	10/18/13	Data File:	101762.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	KJ

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

Compounds:	Concentration
	ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EMW-3S-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/04/13	Lab ID:	310013-02 1/0.25
Date Analyzed:	10/18/13	Data File:	101764.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	KJ

Surrogates:	% Recovery:	Lower	Upper
TCMX	155	Limit:	Limit:
		50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	SLR-6-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/04/13	Lab ID:	310013-03 1/0.25
Date Analyzed:	10/18/13	Data File:	101766.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	KJ

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

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	HC-20-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/04/13	Lab ID:	310013-04 1/0.25
Date Analyzed:	10/18/13	Data File:	101768.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	KJ

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

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EMW-13S-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/04/13	Lab ID:	310013-05 1/0.25
Date Analyzed:	10/18/13	Data File:	101770.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	KJ

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

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	CMW-6-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/04/13	Lab ID:	310013-06 1/0.25
Date Analyzed:	10/18/13	Data File:	101772.D\NECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	KJ

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

Compounds:	Concentration
	ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EMW-10D-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/04/13	Lab ID:	310013-07 1/0.25
Date Analyzed:	10/18/13	Data File:	101774.D\NECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	KJ

Surrogates:	% Recovery:	Lower	Upper
TCMX	87	Limit:	Limit:
		50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EMW-56D-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/04/13	Lab ID:	310013-08 1/0.25
Date Analyzed:	10/18/13	Data File:	101776.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	KJ

Surrogates:	% Recovery:	Lower	Upper
TCMX	101	Limit:	Limit:
		50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EMW-4D-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/04/13	Lab ID:	310013-09 1/0.25
Date Analyzed:	10/18/13	Data File:	101778A.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	KJ

Surrogates:	% Recovery:	Lower	Upper
TCMX	86	Limit:	Limit:
		50	150

Compounds:	Concentration
	ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	CMW-2-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/04/13	Lab ID:	310013-10 1/0.25
Date Analyzed:	10/18/13	Data File:	101780.D\NECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	KJ

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	93	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	SLR-7-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/04/13	Lab ID:	310013-11 1/0.25
Date Analyzed:	10/18/13	Data File:	101782.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	KJ

Surrogates:	% Recovery:	Lower	Upper
TCMX	80	Limit:	Limit:
		50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley 101.00205.00030
Date Extracted:	10/04/13	Lab ID:	03-1990 mb 1/0.25
Date Analyzed:	10/17/13	Data File:	101664.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	MCP

Surrogates:	% Recovery:	Lower	Upper
TCMX	115	Limit:	Limit:
		50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-15D-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-01
Date Analyzed:	10/10/13	Data File:	310013-01.080
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	71	60	125
Indium	59 vo	60	125
Holmium	61	60	125

Analyte:	Concentration ug/L (ppb)
Cadmium	<0.0940 J
Antimony	0.0850 J
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-15D-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-01 x10
Date Analyzed:	10/10/13	Data File:	310013-01 x10.055
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	91	60	125
Indium	87	60	125
Holmium	92	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	1.38
Nickel	<4.60
Copper	5.18
Zinc	<6.00
Arsenic	11.5 ip
Selenium	47.3 ip
Silver	<0.640
Cadmium	<0.940
Antimony	<0.520
Barium	76.4
Thallium	<0.740
Lead	<1.44

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-3S-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-02
Date Analyzed:	10/10/13	Data File:	310013-02.084
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	63	60	125
Indium	55 vo	60	125
Holmium	57 vo	60	125

Analyte:	Concentration ug/L (ppb)
Cadmium	<0.0940 J
Thallium	<0.0740 J
Lead	<0.144 J

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-3S-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-02 x10
Date Analyzed:	10/10/13	Data File:	310013-02 x10.056
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	87	60	125
Indium	86	60	125
Holmium	90	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	1.61
Nickel	7.03
Copper	8.00
Zinc	47.0
Arsenic	14.0 ip
Selenium	53.9 ip
Silver	<0.640
Cadmium	<0.940
Antimony	0.810
Barium	157
Thallium	<0.740
Lead	<1.44

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	SLR-6-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-03
Date Analyzed:	10/10/13	Data File:	310013-03.075
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	93	60	125
Indium	93	60	125
Holmium	98	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.826
Nickel	1.04
Copper	3.85
Zinc	14.5
Arsenic	0.872 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.763
Barium	21.1
Thallium	<0.0740
Lead	1.20

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	HC-20-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-04
Date Analyzed:	10/10/13	Data File:	310013-04.077
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	107	60	125
Indium	91	60	125
Holmium	92	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.43
Nickel	1.07
Copper	<0.340
Zinc	4.24
Arsenic	17.9 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.335
Barium	20.6
Thallium	<0.0740
Lead	<0.144

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ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-13S-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-05
Date Analyzed:	10/10/13	Data File:	310013-05.087
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	55 vo	60	125
Indium	51 vo	60	125
Holmium	55 vo	60	125

Analyte:	Concentration ug/L (ppb)
Cadmium	<0.0940 J
Thallium	<0.0740 J
Lead	1.06 J

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-13S-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-05 x10
Date Analyzed:	10/10/13	Data File:	310013-05 x10.059
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	87	60	125
Indium	85	60	125
Holmium	87	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	1.63
Nickel	4.77
Copper	10.7
Zinc	<6.00
Arsenic	289 ip
Selenium	61.6 ip
Silver	<0.640
Cadmium	<0.940
Antimony	19.6
Barium	250
Thallium	<0.740
Lead	<1.44

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ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	CMW-6-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-06
Date Analyzed:	10/10/13	Data File:	310013-06.086
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	57 vo	60	125
Indium	52 vo	60	125
Holmium	55 vo	60	125

Analyte:	Concentration ug/L (ppb)
Cadmium	<0.0940 J
Thallium	<0.0740 J
Lead	<0.144 J

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ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	CMW-6-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-06 x10
Date Analyzed:	10/10/13	Data File:	310013-06 x10.061
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	85	60	125
Indium	83	60	125
Holmium	86	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	2.98
Nickel	4.86
Copper	18.9
Zinc	29.7
Arsenic	71.7 ip
Selenium	64.8 ip
Silver	<0.640
Cadmium	<0.940
Antimony	29.5
Barium	94.9
Thallium	<0.740
Lead	<1.44

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ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-10D-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-07
Date Analyzed:	10/10/13	Data File:	310013-07.078
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	89	60	125
Indium	68	60	125
Holmium	69	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.940
Nickel	1.66
Copper	0.388
Zinc	<0.600
Arsenic	7.23 ip
Selenium	28.9 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<0.0520
Barium	93.0
Thallium	<0.0740
Lead	<0.144

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ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-56D-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-08
Date Analyzed:	10/10/13	Data File:	310013-08.079
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	87	60	125
Indium	67	60	125
Holmium	67	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.03
Nickel	1.65
Copper	0.356
Zinc	<0.600
Arsenic	7.48 ip
Selenium	30.1 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<0.0520
Barium	90.9
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-4D-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-09
Date Analyzed:	10/10/13	Data File:	310013-09.083
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	71	60	125
Indium	56 vo	60	125
Holmium	57 vo	60	125

Analyte:	Concentration ug/L (ppb)
Cadmium	<0.0940 J
Antimony	0.133 J
Thallium	<0.074 J
Lead	0.440 J

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-4D-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-09 x10
Date Analyzed:	10/10/13	Data File:	310013-09 x10.064
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	89	60	125
Indium	86	60	125
Holmium	90	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	1.64
Nickel	<4.60
Copper	5.10
Zinc	<6.00
Arsenic	11.4 ip
Selenium	44.2 ip
Silver	<0.640
Cadmium	<0.940
Antimony	<0.520
Barium	154
Thallium	<0.740
Lead	<1.44

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	CMW-2-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-10
Date Analyzed:	10/10/13	Data File:	310013-10.085
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	77	60	125
Indium	72	60	125
Holmium	78	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.64
Nickel	1.76
Copper	3.50
Zinc	5.20
Arsenic	46.5 ip
Selenium	19.4 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	7.00
Barium	59.7
Thallium	<0.0740
Lead	1.04

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ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	SLR-7-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-11
Date Analyzed:	10/10/13	Data File:	310013-11.076
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	98	60	125
Indium	94	60	125
Holmium	96	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.275
Nickel	3.29
Copper	0.683
Zinc	5.95
Arsenic	2.30 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.107
Barium	13.5
Thallium	<0.0740
Lead	<0.144

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ENVIRONMENTAL CHEMISTS

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:	10/07/13	Lab ID:	I3-646 mb
Date Analyzed:	10/10/13	Data File:	I3-646 mb.011
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	99	60	125
Indium	100	60	125
Holmium	97	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	<0.138
Nickel	<0.460
Copper	<0.340
Zinc	<0.600
Arsenic	<0.150
Selenium	<0.560
Silver	<0.0640
Cadmium	<0.0940
Antimony	<0.0520
Barium	<0.260
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-15D-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-01
Date Analyzed:	10/09/13	Data File:	310013-01.080
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	69	60	125
Indium	55 vo	60	125
Holmium	60	60	125

Analyte:	Concentration ug/L (ppb)
Cadmium	<0.0940 J
Antimony	0.216 J
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-15D-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-01 x10
Date Analyzed:	10/09/13	Data File:	310013-01 x10.023
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	96	60	125
Indium	92	60	125
Holmium	96	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	2.63
Nickel	<4.60
Zinc	7.24
Silver	<0.640
Cadmium	<0.940
Antimony	<0.520
Barium	76.4
Thallium	<0.740
Lead	<1.44

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-3S-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-02
Date Analyzed:	10/09/13	Data File:	310013-02.081
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	60	60	125
Indium	50 vo	60	125
Holmium	57 vo	60	125

Analyte:	Concentration ug/L (ppb)
Cadmium	<0.0940 J
Thallium	<0.0740 J
Lead	<0.144 J

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-3S-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-02 x10
Date Analyzed:	10/09/13	Data File:	310013-02 x10.024
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	93	60	125
Indium	92	60	125
Holmium	95	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	2.66
Nickel	5.99
Zinc	105
Silver	<0.640
Cadmium	<0.940
Antimony	0.610
Barium	162
Thallium	<0.740
Lead	<1.44

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	SLR-6-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-03
Date Analyzed:	10/09/13	Data File:	310013-03.067
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	101	60	125
Indium	104	60	125
Holmium	108	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.423
Nickel	0.703
Zinc	7.41
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.794
Barium	14.2
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	HC-20-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-04
Date Analyzed:	10/09/13	Data File:	310013-04.082
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	102	60	125
Indium	82	60	125
Holmium	87	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.46
Nickel	1.18
Zinc	4.77
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.364
Barium	20.1
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-13S-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-05
Date Analyzed:	10/09/13	Data File:	310013-05.083
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	52 vo	60	125
Indium	42 vo	60	125
Holmium	49 vo	60	125

Analyte:	Concentration ug/L (ppb)
Cadmium	<0.0940 J
Thallium	<0.0740 J
Lead	<0.144 J

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-13S-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-05 x10
Date Analyzed:	10/09/13	Data File:	310013-05 x10.027
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	93	60	125
Indium	91	60	125
Holmium	97	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	2.28
Nickel	5.38
Zinc	<6.00
Silver	<0.640
Cadmium	<0.940
Antimony	23.1
Barium	248
Thallium	<0.740
Lead	<1.44

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	CMW-6-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-06
Date Analyzed:	10/09/13	Data File:	310013-06.085
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	55 vo	60	125
Indium	48 vo	60	125
Holmium	55 vo	60	125

Analyte:	Concentration ug/L (ppb)
Cadmium	<0.0940 J
Thallium	<0.0740 J
Lead	1.24 J

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	CMW-6-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-06 x10
Date Analyzed:	10/09/13	Data File:	310013-06 x10.029
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	91	60	125
Indium	91	60	125
Holmium	94	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	4.33
Nickel	6.98
Zinc	29.8
Silver	<0.640
Cadmium	<0.940
Antimony	27.4
Barium	93.3
Thallium	<0.740
Lead	<1.44

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-10D-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-07
Date Analyzed:	10/09/13	Data File:	310013-07.075
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	90	60	125
Indium	65	60	125
Holmium	69	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.03
Nickel	2.09
Zinc	1.11
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.0570
Barium	90.4
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-56D-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-08
Date Analyzed:	10/09/13	Data File:	310013-08.076
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	91	60	125
Indium	66	60	125
Holmium	70	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.11
Nickel	1.97
Zinc	2.91
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.0600
Barium	85.5
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-4D-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-09
Date Analyzed:	10/09/13	Data File:	310013-09.077
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	71	60	125
Indium	54 vo	60	125
Holmium	58 vo	60	125

Analyte:	Concentration ug/L (ppb)
Cadmium	<0.0940 J
Antimony	0.117 J
Thallium	<0.0740 J
Lead	<0.144 J

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-4D-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-09 x10
Date Analyzed:	10/09/13	Data File:	310013-09 x10.032
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	95	60	125
Indium	94	60	125
Holmium	101	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	1.94
Nickel	<4.60
Zinc	<6.00
Silver	<0.640
Cadmium	<0.940
Antimony	<0.520
Barium	152
Thallium	<0.740
Lead	<1.44

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	CMW-2-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-10
Date Analyzed:	10/09/13	Data File:	310013-10.084
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	73	60	125
Indium	63	60	125
Holmium	70	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.40
Nickel	2.14
Zinc	3.69
Silver	<0.0640
Cadmium	<0.0940
Antimony	8.18
Barium	76.0
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	SLR-7-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-11
Date Analyzed:	10/09/13	Data File:	310013-11.074
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	93	60	125
Indium	90	60	125
Holmium	93	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.391
Nickel	3.93
Zinc	7.66
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.139
Barium	13.9
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved 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:	10/07/13	Lab ID:	I3-647 mb
Date Analyzed:	10/09/13	Data File:	I3-647 mb.011
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	99	60	125
Indium	97	60	125
Holmium	98	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	<0.138
Nickel	<0.460
Zinc	<0.600
Silver	<0.0640
Cadmium	<0.0940
Antimony	<0.0520
Barium	<0.260
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/05/13

Date Received: 10/01/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310013

Date Extracted: 10/07/13

Date Analyzed: 10/08/13

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

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Total Mercury</u>
EMW-15D-100113 310013-01	<0.0015
EMW-3S-100113 310013-02	<0.0015
SLR-6-100113 310013-03	0.0055
HC-20-100113 310013-04	<0.0015
EMW-13S-100113 310013-05	0.0020
CMW-6-100113 310013-06	0.0033
EMW-10D-100113 310013-07	<0.0015
EMW-56D-100113 310013-08	<0.0015
EMW-4D-100113 310013-09	<0.0015
CMW-2-100113 310013-10	0.0046
SLR-7-100113 310013-11	<0.0015
Method Blank	<0.0015

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/05/13

Date Received: 10/01/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310013

Date Extracted: 10/07/13

Date Analyzed: 10/08/13

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR DISSOLVED MERCURY
USING EPA METHOD 1631E**
Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Dissolved Mercury</u>
EMW-15D-100113 310013-01	<0.0015
EMW-3S-100113 310013-02	<0.0015
SLR-6-100113 310013-03	<0.0015
HC-20-100113 310013-04	<0.0015
EMW-13S-100113 310013-05	<0.0015
CMW-6-100113 310013-06	0.0030
EMW-10D-100113 310013-07	<0.0015
EMW-56D-100113 310013-08	<0.0015
EMW-4D-100113 310013-09	<0.0015
CMW-2-100113 310013-10	0.0017
SLR-7-100113 310013-11	<0.0015
Method Blank	<0.0015

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/05/13

Date Received: 10/01/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310013

Date Extracted: NA

Date Analyzed: 10/03/13

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL SUSPENDED SOLIDS
BY METHOD 2540D**

Results Reported as mg/L (ppm)

<u>Sample ID</u> Laboratory ID	Total Suspended <u>Solids</u>
EMW-15D-100113 310013-01	19
EMW-3S-100113 310013-02	<9.7
SLR-6-100113 310013-03	<9.7
HC-20-100113 310013-04	<9.7
EMW-13S-100113 310013-05	<9.7
CMW-6-100113 310013-06	<9.7
EMW-10D-100113 310013-07	24
EMW-56D-100113 310013-08	23
EMW-4D-100113 310013-09	48
CMW-2-100113 310013-10	<9.7
SLR-7-100113 310013-11	<9.7
Method Blank	<9.7

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/05/13

Date Received: 10/01/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310013

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TPH AS GASOLINE
USING METHOD NWTPH-Gx**

Laboratory Code: 309543-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Gasoline	ug/L (ppb)	<12	<12	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	ug/L (ppb)	1,000	102	69-134

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/05/13

Date Received: 10/01/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310013

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

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	500	87	91	58-134	4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/05/13

Date Received: 10/01/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310013

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

Laboratory Code: 310013-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent	
				Recovery MS	Acceptance Criteria
Dichlorodifluoromethane	ug/L (ppb)	50	<0.16	101	55-144
Chloromethane	ug/L (ppb)	50	<0.22	93	67-131
Vinyl chloride	ug/L (ppb)	50	<0.13	98	61-139
Bromomethane	ug/L (ppb)	50	<0.2	231 vo	66-129
Chloroethane	ug/L (ppb)	50	<0.18	100	68-126
Trichlorofluoromethane	ug/L (ppb)	50	<0.17	100	71-128
Acetone	ug/L (ppb)	250	<2.6	86	48-149
1,1-Dichloroethene	ug/L (ppb)	50	<0.19	99	71-123
Methylene chloride	ug/L (ppb)	50	<3	107	61-126
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	<0.13	101	68-125
trans-1,2-Dichloroethene	ug/L (ppb)	50	<0.24	99	72-122
1,1-Dichloroethane	ug/L (ppb)	50	<0.18	99	79-113
2,2-Dichloropropane	ug/L (ppb)	50	<0.3	107	58-132
cis-1,2-Dichloroethene	ug/L (ppb)	50	<0.24	95	73-119
Chloroform	ug/L (ppb)	50	<0.24	98	80-112
2-Butanone (MEK)	ug/L (ppb)	250	<0.94	93	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	102	79-116
1,1-Dichloropropene	ug/L (ppb)	50	<0.26	99	67-121
Carbon tetrachloride	ug/L (ppb)	50	<0.24	107	72-123
Benzene	ug/L (ppb)	50	<0.13	96	79-109
Trichloroethene	ug/L (ppb)	50	<0.17	95	75-109
1,2-Dichloropropane	ug/L (ppb)	50	<0.32	100	80-111
Bromodichloromethane	ug/L (ppb)	50	<0.38	104	78-117
Dibromomethane	ug/L (ppb)	50	<0.28	101	80-112
4-Methyl-2-pentanone	ug/L (ppb)	250	<1.3	120	79-123
cis-1,3-Dichloropropene	ug/L (ppb)	50	<0.2	107	76-120
Toluene	ug/L (ppb)	50	<0.13	95	73-117
trans-1,3-Dichloropropene	ug/L (ppb)	50	<0.34	108	75-122
1,1,2-Trichloroethane	ug/L (ppb)	50	<0.28	105	81-111
2-Hexanone	ug/L (ppb)	250	<1	109	75-126
1,3-Dichloropropane	ug/L (ppb)	50	<0.2	100	81-111
Tetrachloroethene	ug/L (ppb)	50	<0.28	100	72-113
Dibromochloromethane	ug/L (ppb)	50	<0.24	108	69-129
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	<0.24	104	83-114
Chlorobenzene	ug/L (ppb)	50	<0.1	94	75-115
Ethylbenzene	ug/L (ppb)	50	<0.16	99	71-120
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	<0.32	103	78-122
m,p-Xylene	ug/L (ppb)	100	<0.5	99	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	99	76-118
Bromoform	ug/L (ppb)	50	<0.22	111	49-138
n-Propylbenzene	ug/L (ppb)	50	<0.14	101	74-117
Bromobenzene	ug/L (ppb)	50	<0.18	101	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	106	79-120
1,2,3-Trichloropropane	ug/L (ppb)	50	<0.28	102	72-119
2-Chlorotoluene	ug/L (ppb)	50	<0.13	99	77-114
4-Chlorotoluene	ug/L (ppb)	50	<0.16	99	81-109
tert-Butylbenzene	ug/L (ppb)	50	<0.15	102	81-116
1,2,4-Trimethylbenzene	ug/L (ppb)	50	<0.11	100	74-118
sec-Butylbenzene	ug/L (ppb)	50	<0.12	102	77-118
p-Isopropyltoluene	ug/L (ppb)	50	<0.15	99	64-132
1,3-Dichlorobenzene	ug/L (ppb)	50	<0.15	95	81-111
1,4-Dichlorobenzene	ug/L (ppb)	50	<0.094	91	78-110
1,2-Dichlorobenzene	ug/L (ppb)	50	<0.13	95	81-111
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	<0.44	108	69-129
1,2,4-Trichlorobenzene	ug/L (ppb)	50	<0.34	95	74-115
Hexachlorobutadiene	ug/L (ppb)	50	<0.46	91	67-120
Naphthalene	ug/L (ppb)	50	<0.28	105	63-136
1,2,3-Trichlorobenzene	ug/L (ppb)	50	<0.38	93	79-115

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/05/13

Date Received: 10/01/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310013

**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	114	116	54-149	2
Chloromethane	ug/L (ppb)	50	106	109	67-133	3
Vinyl chloride	ug/L (ppb)	50	104	106	73-132	2
Bromomethane	ug/L (ppb)	50	245 vo	261 vo	69-123	6
Chloroethane	ug/L (ppb)	50	103	106	68-126	3
Trichlorofluoromethane	ug/L (ppb)	50	106	108	70-132	2
Acetone	ug/L (ppb)	250	107	98	44-145	9
1,1-Dichloroethene	ug/L (ppb)	50	102	102	75-119	0
Methylene chloride	ug/L (ppb)	50	106	107	63-132	1
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	101	101	70-122	0
trans-1,2-Dichloroethene	ug/L (ppb)	50	100	101	76-118	1
1,1-Dichloroethane	ug/L (ppb)	50	102	104	80-116	2
2,2-Dichloropropane	ug/L (ppb)	50	106	110	62-141	4
cis-1,2-Dichloroethene	ug/L (ppb)	50	98	98	81-111	0
Chloroform	ug/L (ppb)	50	100	102	81-109	2
2-Butanone (MEK)	ug/L (ppb)	250	101	97	53-140	4
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	102	103	79-109	1
1,1,1-Trichloroethane	ug/L (ppb)	50	104	106	80-116	2
1,1-Dichloropropene	ug/L (ppb)	50	104	106	78-112	2
Carbon tetrachloride	ug/L (ppb)	50	110	112	72-128	2
Benzene	ug/L (ppb)	50	99	100	81-108	1
Trichloroethene	ug/L (ppb)	50	97	99	77-108	2
1,2-Dichloropropane	ug/L (ppb)	50	104	105	82-109	1
Bromodichloromethane	ug/L (ppb)	50	108	109	76-120	1
Dibromomethane	ug/L (ppb)	50	104	104	80-110	0
4-Methyl-2-pentanone	ug/L (ppb)	250	119	117	59-142	2
cis-1,3-Dichloropropene	ug/L (ppb)	50	114	116	76-128	2
Toluene	ug/L (ppb)	50	99	100	83-108	1
trans-1,3-Dichloropropene	ug/L (ppb)	50	116	120	76-128	3
1,1,2-Trichloroethane	ug/L (ppb)	50	108	110	82-110	2
2-Hexanone	ug/L (ppb)	250	109	111	53-145	2
1,3-Dichloropropane	ug/L (ppb)	50	103	106	83-110	3
Tetrachloroethene	ug/L (ppb)	50	103	106	78-109	3
Dibromochloromethane	ug/L (ppb)	50	113	117	63-140	3
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	107	110	85-113	3
Chlorobenzene	ug/L (ppb)	50	97	100	84-108	3
Ethylbenzene	ug/L (ppb)	50	101	104	84-110	3
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	108	112	76-125	4
m,p-Xylene	ug/L (ppb)	100	101	104	84-112	3
o-Xylene	ug/L (ppb)	50	101	105	82-113	4
Styrene	ug/L (ppb)	50	104	108	84-116	4
Isopropylbenzene	ug/L (ppb)	50	102	105	81-122	3
Bromoform	ug/L (ppb)	50	116	120	40-161	3
n-Propylbenzene	ug/L (ppb)	50	103	104	81-115	1
Bromobenzene	ug/L (ppb)	50	102	103	80-113	1
1,3,5-Trimethylbenzene	ug/L (ppb)	50	105	106	83-117	1
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	106	106	79-118	0
1,2,3-Trichloropropane	ug/L (ppb)	50	102	103	74-116	1
2-Chlorotoluene	ug/L (ppb)	50	101	103	79-112	2
4-Chlorotoluene	ug/L (ppb)	50	102	103	81-113	1
tert-Butylbenzene	ug/L (ppb)	50	105	107	81-119	2
1,2,4-Trimethylbenzene	ug/L (ppb)	50	102	104	83-116	2
sec-Butylbenzene	ug/L (ppb)	50	105	106	83-116	1
p-Isopropyltoluene	ug/L (ppb)	50	103	103	82-119	0
1,3-Dichlorobenzene	ug/L (ppb)	50	97	97	83-111	0
1,4-Dichlorobenzene	ug/L (ppb)	50	93	94	82-109	1
1,2-Dichlorobenzene	ug/L (ppb)	50	97	97	83-111	0
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	110	111	62-133	1
1,2,4-Trichlorobenzene	ug/L (ppb)	50	97	100	77-117	3
Hexachlorobutadiene	ug/L (ppb)	50	94	95	74-118	1
Naphthalene	ug/L (ppb)	50	106	106	75-131	0
1,2,3-Trichlorobenzene	ug/L (ppb)	50	97	99	82-115	2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/05/13

Date Received: 10/01/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310013

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
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	ug/L (ppb)	10	34	40	18-52	16
Bis(2-chloroethyl) ether	ug/L (ppb)	10	87	96	52-113	10
2-Chlorophenol	ug/L (ppb)	10	84	97	50-110	14
1,3-Dichlorobenzene	ug/L (ppb)	10	89	98	45-109	10
1,4-Dichlorobenzene	ug/L (ppb)	10	91	100	44-118	9
1,2-Dichlorobenzene	ug/L (ppb)	10	91	101	46-116	10
Benzyl alcohol	ug/L (ppb)	10	83	92	42-100	10
Bis(2-chloroisopropyl) ether	ug/L (ppb)	10	92	100	51-124	8
2-Methylphenol	ug/L (ppb)	10	75	91	38-100	19
Hexachloroethane	ug/L (ppb)	10	89	99	42-117	11
N-Nitroso-di-n-propylamine	ug/L (ppb)	10	90	102	48-124	12
3-Methylphenol + 4-Methyl phenol	ug/L (ppb)	10	69	83	48-87	18
Nitrobenzene	ug/L (ppb)	10	92	100	50-118	8
Isophorone	ug/L (ppb)	10	103	107	55-116	4
2-Nitrophenol	ug/L (ppb)	10	105	113	42-127	7
2,4-Dimethylphenol	ug/L (ppb)	10	66	91	45-100	32 vo
Benzoic acid	ug/L (ppb)	65	27	30	10-46	11
Bis(2-chloroethoxy)methane	ug/L (ppb)	10	98	105	55-115	7
2,4-Dichlorophenol	ug/L (ppb)	10	101	110	55-113	9
1,2,4-Trichlorobenzene	ug/L (ppb)	10	92	99	50-109	7
Hexachlorobutadiene	ug/L (ppb)	10	92	97	50-109	5
4-Chloroaniline	ug/L (ppb)	20	101	101	30-109	0
4-Chloro-3-methylphenol	ug/L (ppb)	10	99	108	54-114	9
2-Methylnaphthalene	ug/L (ppb)	10	97	102	53-113	5
Hexachlorocyclopentadiene	ug/L (ppb)	10	51	58	26-94	13
2,4,6-Trichlorophenol	ug/L (ppb)	10	98	105	46-114	7
2,4,5-Trichlorophenol	ug/L (ppb)	10	100	109	57-122	9
2-Chloronaphthalene	ug/L (ppb)	10	90	98	52-112	9
2-Nitroaniline	ug/L (ppb)	10	113	119	47-128	5
Dimethyl phthalate	ug/L (ppb)	10	111	112	55-116	1
2,6-Dinitrotoluene	ug/L (ppb)	10	118	119	49-126	1
3-Nitroaniline	ug/L (ppb)	20	112	118	21-125	5
2,4-Dinitrophenol	ug/L (ppb)	10	75	96	29-130	25 vo
Dibenzofuran	ug/L (ppb)	10	97	102	53-113	5
2,4-Dinitrotoluene	ug/L (ppb)	10	120	123	48-129	2
4-Nitrophenol	ug/L (ppb)	10	41	49	12-59	18
Diethyl phthalate	ug/L (ppb)	10	111	109	55-116	2
4-Chlorophenyl phenyl ether	ug/L (ppb)	10	98	100	52-115	2
N-Nitrosodiphenylamine	ug/L (ppb)	10	99	104	51-112	5
4-Nitroaniline	ug/L (ppb)	20	103	112	42-115	8
4,6-Dinitro-2-methylphenol	ug/L (ppb)	10	83	101	40-128	20
4-Bromophenyl phenyl ether	ug/L (ppb)	10	98	102	53-114	4
Hexachlorobenzene	ug/L (ppb)	10	96	99	54-115	3
Pentachlorophenol	ug/L (ppb)	10	90	103	49-114	13
Carbazole	ug/L (ppb)	10	97	106	54-115	9
Di-n-butyl phthalate	ug/L (ppb)	10	103	108	54-115	5
Benzyl butyl phthalate	ug/L (ppb)	10	112	118	53-122	5
Bis(2-ethylhexyl) phthalate	ug/L (ppb)	10	112	120	54-122	7
Di-n-octyl phthalate	ug/L (ppb)	10	116	120	50-131	3

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/05/13

Date Received: 10/01/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310013

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
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	ug/L (ppb)	1	84	86	67-116	2
Acenaphthylene	ug/L (ppb)	1	88	90	65-119	2
Acenaphthene	ug/L (ppb)	1	87	88	66-118	1
Fluorene	ug/L (ppb)	1	92	93	64-125	1
Phenanthrene	ug/L (ppb)	1	89	90	67-120	1
Anthracene	ug/L (ppb)	1	93	95	65-122	2
Fluoranthene	ug/L (ppb)	1	94	95	65-127	1
Pyrene	ug/L (ppb)	1	94	92	62-130	2
Benz(a)anthracene	ug/L (ppb)	1	90	90	60-118	0
Chrysene	ug/L (ppb)	1	94	96	66-125	2
Benzo(b)fluoranthene	ug/L (ppb)	1	97	99	55-135	2
Benzo(k)fluoranthene	ug/L (ppb)	1	92	102	62-125	10
Benzo(a)pyrene	ug/L (ppb)	1	92	95	58-127	3
Indeno(1,2,3-cd)pyrene	ug/L (ppb)	1	92	86	36-142	7
Dibenz(a,h)anthracene	ug/L (ppb)	1	80	75	37-133	6
Benzo(g,h,i)perylene	ug/L (ppb)	1	84	79	34-135	6

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/05/13

Date Received: 10/01/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310013

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Aroclor 1016	ug/L (ppb)	2.5	116	109	70-130	6
Aroclor 1260	ug/L (ppb)	2.5	109	104	70-130	5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/05/13

Date Received: 10/01/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310013

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

Laboratory Code: 309543-08 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Beryllium	ug/L (ppb)	5	<0.0980	98	96	67-145	2
Chromium	ug/L (ppb)	20	1.26	87	89	64-132	2
Nickel	ug/L (ppb)	20	0.728	84	82	61-128	2
Copper	ug/L (ppb)	20	<0.340	78	79	63-124	1
Zinc	ug/L (ppb)	50	<0.600	88	80	55-141	10
Arsenic	ug/L (ppb)	10	5.31 ip	97 b	92 b	60-150	5 b
Selenium	ug/L (ppb)	5	<0.560 ip	92	93	43-178	1
Silver	ug/L (ppb)	5	<0.0640	81	82	71-115	1
Cadmium	ug/L (ppb)	5	<0.0940	97	97	83-116	0
Antimony	ug/L (ppb)	20	0.0730	96	97	62-125	1
Barium	ug/L (ppb)	50	12.6	103 b	102 b	79-126	1 b
Thallium	ug/L (ppb)	5	<0.0740	97	96	73-119	1
Lead	ug/L (ppb)	10	<0.144	95	92	79-121	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Beryllium	ug/L (ppb)	5	96	73-135
Chromium	ug/L (ppb)	20	96	80-119
Nickel	ug/L (ppb)	20	97	79-122
Copper	ug/L (ppb)	20	97	81-119
Zinc	ug/L (ppb)	50	96	76-124
Arsenic	ug/L (ppb)	10	92	80-111
Selenium	ug/L (ppb)	5	97	81-119
Silver	ug/L (ppb)	5	85	80-116
Cadmium	ug/L (ppb)	5	95	83-113
Antimony	ug/L (ppb)	20	85	79-108
Barium	ug/L (ppb)	50	96	83-117
Thallium	ug/L (ppb)	5	96	78-116
Lead	ug/L (ppb)	10	95	83-115

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/05/13

Date Received: 10/01/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310013

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR DISSOLVED METALS USING EPA METHOD 200.8**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Beryllium	ug/L (ppb)	5	101	97	73-135	4
Chromium	ug/L (ppb)	20	102	101	80-119	1
Nickel	ug/L (ppb)	20	101	100	79-122	1
Zinc	ug/L (ppb)	50	99	98	76-124	1
Silver	ug/L (ppb)	5	91	88	80-116	3
Cadmium	ug/L (ppb)	5	101	97	83-113	4
Antimony	ug/L (ppb)	20	88	90	79-108	2
Barium	ug/L (ppb)	50	103	99	83-117	4
Thallium	ug/L (ppb)	5	104	102	78-116	2
Lead	ug/L (ppb)	10	102	100	83-115	2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/05/13

Date Received: 10/01/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310013

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

Laboratory Code: 309543-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Mercury	ug/L (ppb)	0.01	0.0015	96	93	63-132	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Mercury	ug/L (ppb)	0.01	100	78-118

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/05/13

Date Received: 10/01/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310013

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES FOR
DISSOLVED MERCURY
USING EPA METHOD 1631E**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Mercury	ug/L (ppb)	0.01	100	102	78-118	2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/05/13

Date Received: 10/01/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310013

**QUALITY ASSURANCE RESULTS
FROM THE ANALYSIS OF WATER SAMPLES FOR
TOTAL SUSPENDED SOLIDS
BY METHOD 2540D**

Laboratory Code: 310077-02 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
TSS	mg/L	16	22	32 a	0-20

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
TSS	mg/L	50	105	61-131

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

October 18, 2013

Michele Costales Poquiz
Friedman & Bruya
3012 16th Ave W
Seattle, WA 98119

RE: Project: 310013
ARI Job No.: XI10

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 eleven water samples on October 3, 2013 under ARI job XI10. For further details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

The samples were analyzed for chloride and TDS, as requested on the COC.

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.

A handwritten signature in black ink, appearing to read "Cheronne Oreiro", written over a horizontal line.

Cheronne Oreiro
Project Manager
(206) 695-6214
cheronneo@arilabs.com
www.arilabs.com

cc: eFile XI10

Enclosures



Cooler Receipt Form

ARI Client: Friedman + Bruya
 COC No(s): _____ (NA)
 Assigned ARI Job No: XITo

Project Name: _____
 Delivered by: Fed-Ex UPS Courier Hand Delivered Other: Postal Express
 Tracking No: 4542189 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)
 Time: 1010 0.8
 If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 908779S

Cooler Accepted by: A Date: 10/3/13 Time: 1010

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 Get 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: TC Date: 10-3-13 Time: 1100

**** 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" (< 2 mm)
			Peabubbles → "pb" (2 to < 4 mm)
			Large → "lg" (4 to < 6 mm)
			Headspace → "hs" (> 6 mm)

Sample ID Cross Reference Report



ARI Job No: XI10
Client: Friedman & Bruya
Project Event: 310013
Project Name: N/A

Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1. EMW-15D-10013	XI10A	13-21343	Water	10/01/13 07:49	10/03/13 10:10
2. EMW-3S-10013	XI10B	13-21344	Water	10/01/13 09:14	10/03/13 10:10
3. SLR-6-1001113	XI10C	13-21345	Water	10/01/13 11:20	10/03/13 10:10
4. HC-20-100113	XI10D	13-21346	Water	10/01/13 13:11	10/03/13 10:10
5. EMW-13S-100113	XI10E	13-21347	Water	10/01/13 07:56	10/03/13 10:10
6. CMW-6-100113	XI10F	13-21348	Water	10/01/13 09:39	10/03/13 10:10
7. EMW-10D-100113	XI10G	13-21349	Water	10/01/13 11:58	10/03/13 10:10
8. EMW-56D-100113	XI10H	13-21350	Water	10/01/13 11:00	10/03/13 10:10
9. EMW-4D-100113	XI10I	13-21351	Water	10/01/13 08:41	10/03/13 10:10
10. CMW-2-100113	XI10J	13-21352	Water	10/01/13 10:56	10/03/13 10:10
11. SLR-7-100113	XI10K	13-21353	Water	10/01/13 14:20	10/03/13 10:10

SAMPLE RESULTS-CONVENTIONALS
XI10-Friedman & Bruya



Matrix: Water
Data Release Authorized:
Reported: 10/17/13

A handwritten signature in black ink, appearing to be 'J. Friedman', written over the 'Data Release Authorized' text.

Project: NA
Event: 310013
Date Sampled: 10/01/13
Date Received: 10/03/13

Client ID: EMW-15D-10013
ARI ID: 13-21343 XI10A

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/07/13 100713#1	SM2540C	mg/L	200	7,560
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	1,000	4,220

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XI10-Friedman & Bruya



Matrix: Water
Data Release Authorized:
Reported: 10/17/13

A handwritten signature in black ink, appearing to be 'AB' or similar, written over the 'Data Release Authorized' text.

Project: NA
Event: 310013
Date Sampled: 10/01/13
Date Received: 10/03/13

Client ID: EMW-3S-10013
ARI ID: 13-21344 XI10B

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/07/13 100713#1	SM2540C	mg/L	200	9,580
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	1,000	5,080

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XI10-Friedman & Bruya



Matrix: Water
Data Release Authorized:
Reported: 10/17/13

A handwritten signature in black ink, appearing to be 'J. Friedman', written over the 'Data Release Authorized:' text.

Project: NA
Event: 310013
Date Sampled: 10/01/13
Date Received: 10/03/13


Client ID: SLR-6-1001113
ARI ID: 13-21345 XI10C

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/07/13 100713#1	SM2540C	mg/L	5.0	46.0
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	1.0	5.5

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XI10-Friedman & Bruya



Matrix: Water
Data Release Authorized: 
Reported: 10/17/13

Project: NA
Event: 310013
Date Sampled: 10/01/13
Date Received: 10/03/13


Client ID: HC-20-100113
ARI ID: 13-21346 XI10D

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/07/13 100713#1	SM2540C	mg/L	5.0	198
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	1.0	5.7

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XI10-Friedman & Bruya



Matrix: Water
Data Release Authorized: 
Reported: 10/17/13

Project: NA
Event: 310013
Date Sampled: 10/01/13
Date Received: 10/03/13

Client ID: EMW-13S-100113
ARI ID: 13-21347 XI10E

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/07/13 100713#1	SM2540C	mg/L	200	10,700
Chloride	10/08/13 100813#1	SM4500-CLE	mg/L	1,000	6,100

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XI10-Friedman & Bruya



Matrix: Water
Data Release Authorized:
Reported: 10/17/13

A handwritten signature in black ink, appearing to be 'J. Friedman', written over the 'Data Release Authorized' text.

Project: NA
Event: 310013
Date Sampled: 10/01/13
Date Received: 10/03/13

Client ID: CMW-6-100113
ARI ID: 13-21348 XI10F

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/07/13 100713#1	SM2540C	mg/L	200	9,640
Chloride	10/08/13 100813#1	SM4500-CLE	mg/L	1,000	5,650

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XI10-Friedman & Bruya



Matrix: Water
Data Release Authorized
Reported: 10/17/13

A handwritten signature in black ink, appearing to be 'JF' or similar, written over the 'Data Release Authorized' text.

Project: NA
Event: 310013
Date Sampled: 10/01/13
Date Received: 10/03/13

Client ID: EMW-10D-100113
ARI ID: 13-21349 XI10G

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/07/13 100713#1	SM2540C	mg/L	100	4,450
Chloride	10/08/13 100813#1	SM4500-CLE	mg/L	500	2,370

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XI10-Friedman & Bruya



Matrix: Water
Data Release Authorized:
Reported: 10/17/13

A handwritten signature in black ink, appearing to be a stylized name, located between the matrix information and the project details.

Project: NA
Event: 310013
Date Sampled: 10/01/13
Date Received: 10/03/13

Client ID: EMW-56D-100113
ARI ID: 13-21350 XI10H

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/07/13 100713#1	SM2540C	mg/L	200	4,100
Chloride	10/08/13 100813#1	SM4500-CLE	mg/L	500	2,370

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XI10-Friedman & Bruya



Matrix: Water
Data Release Authorized:
Reported: 10/17/13

A handwritten signature in black ink, appearing to be a stylized name, located to the right of the 'Data Release Authorized' text.

Project: NA
Event: 310013
Date Sampled: 10/01/13
Date Received: 10/03/13


Client ID: EMW-4D-100113
ARI ID: 13-21351 XI10I

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/07/13 100713#1	SM2540C	mg/L	200	6,300
Chloride	10/08/13 100813#1	SM4500-CLE	mg/L	1,000	3,760

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XI10-Friedman & Bruya



Matrix: Water
Data Release Authorized: 
Reported: 10/17/13

Project: NA
Event: 310013
Date Sampled: 10/01/13
Date Received: 10/03/13

Client ID: CMW-2-100113
ARI ID: 13-21352 XI10J

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/07/13 100713#1	SM2540C	mg/L	50.0	3,220
Chloride	10/08/13 100813#1	SM4500-CLE	mg/L	500	1,630

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XI10-Friedman & Bruya



Matrix: Water
Data Release Authorized
Reported: 10/17/13

A handwritten signature in black ink, appearing to be 'J. Friedman', written over the 'Data Release Authorized' text.

Project: NA
Event: 310013
Date Sampled: 10/01/13
Date Received: 10/03/13


Client ID: SLR-7-100113
ARI ID: 13-21353 XI10K

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/07/13 100713#1	SM2540C	mg/L	5.0	244
Chloride	10/08/13 100813#1	SM4500-CLE	mg/L	1.0	6.1

RL Analytical reporting limit
U Undetected at reported detection limit

LAB CONTROL RESULTS-CONVENTIONALS
XI10-Friedman & Bruya



Matrix: Water
Data Release Authorized: 
Reported: 10/17/13

Project: NA
Event: 310013
Date Sampled: NA
Date Received: NA

Analyte/Method	QC ID	Date	Units	LCS	Spike Added	Recovery
Total Dissolved Solids SM2540C	ICVL	10/07/13	mg/L	485	500	97.0%

METHOD BLANK RESULTS-CONVENTIONALS
XI10-Friedman & Bruya



Matrix: Water
Data Release Authorized:
Reported: 10/17/13

A handwritten signature in black ink, appearing to be 'J. Friedman', written over the 'Data Release Authorized:' text.

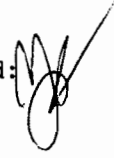
Project: NA
Event: 310013
Date Sampled: NA
Date Received: NA

Analyte	Method	Date	Units	Blank	ID
Total Dissolved Solids	SM2540C	10/07/13	mg/L	< 5.0 U	
Chloride	SM4500-CLE	10/04/13	mg/L	< 1.0 U	FB
		10/08/13		< 1.0 U	FB

FB Filtration Blank

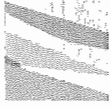
STANDARD REFERENCE RESULTS-CONVENTIONALS
XI10-Friedman & Bruya



Matrix: Water
Data Release Authorized: 
Reported: 10/17/13

Project: NA
Event: 310013
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Method	Date	Units	SRM	True Value	Recovery
Chloride	SM4500-CLE	10/04/13	mg/L	5.0	5.0	100.0%
ERA #411010		10/08/13		4.9	5.0	98.0%



November 5, 2013

Michele Poquiz
Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282

Project Name: 310013

Ms Poquiz,

Attached is the report associated with eleven (11) aqueous samples submitted for dissolved arsenic, copper, and selenium analyses on October 16, 2013. All samples were received on the same day, October 16, 2013, in a sealed cooler at 4.2°C. Dissolved metals analyses were performed via inductively coupled plasma dynamic reaction cell mass spectrometry (ICP-DRC-MS). Any analytical issues associated with the analyses are addressed in the following report.

If you have any questions, please feel free to contact me at your convenience.

Sincerely,

Jeremy Maute
Project Coordinator
Applied Speciation and Consulting, LLC

Applied Speciation and Consulting, LLC

Report prepared for:

Michele Poquiz
Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029

Project Name: 310013

November 5, 2013

1. Sample Reception

Eleven (11) aqueous samples were submitted for dissolved arsenic, copper, and selenium analyses on October 16, 2013. All samples were received in acceptable condition on the same day, October 16, 2013, in a sealed container at 4.2°C.

The samples submitted for dissolved metals analyses were filtered and preserved prior to reception at Applied Speciation and Consulting. The pH values of the samples were checked upon sample reception to confirm the adequacy of sample preservation.

The samples were received in a laminar flow clean hood void of trace metals contamination and ultra-violet radiation. The samples were stored in a secure enclosed container, known to be free from trace metals contamination, until the digestion and analysis could be performed.

The sample ID listed on the container for the client sample EMW-3S-10013 did not match the sample ID provided on the accompanying chain-of-custody (COC) form. The sample container read EMW-3S-10113. All other descriptive parameters on the sample container agreed with those provided on the associated COC.

The date suffix for the client sample EMW-10D-100113 was missing from the sample ID on the sample container. All other descriptive parameters on the sample container agreed with those provided on the associated COC.

The sample container/COC form agreement issues described above were documented on the associated COC forms by sample reception staff at Applied Speciation and Consulting. In each case the sample was logged into the system under the sample ID/descriptive parameter provided on the COC.

2. Sample Preparation

All sample preparation is performed in laminar flow clean hoods known to be free from trace metals contamination. All applied water for dilutions and sample preservatives are monitored for contamination to account for any biases associated with the sample results.

Dissolved As, Cu, and Se Analysis by ICP-DRC-MS The samples submitted for dissolved metals analyses were filtered and preserved prior to reception at Applied Speciation and Consulting. All preserved samples were digested in accordance with EPA Method 200.8 on October 18, 2013. The samples were digested in two batches, TM1 and TM2. All sample digests were then analyzed via inductively coupled plasma dynamic reaction cell mass spectrometry (ICP-DRC-MS).

3. Sample Analysis

All sample analysis is precluded by a minimum of a five-point calibration curve spanning the entire concentration range of interest. Calibration curves are performed at the beginning of each analytical day. All calibration curves, associated with each species of interest, are standardized by linear regression resulting in a response factor. All sample results are **instrument blank corrected** to account for any operational biases associated with the analytical platform.

Prior to sample analysis, all calibration curves are verified using second source standards which are identified as initial calibration verification standards (ICV).

Ongoing instrument performance is identified by the analysis of continuing calibration verification standards (CCV) and continuing calibration blanks (CCB) at a minimum interval of every ten analytical runs.

Dissolved As, Cu, and Se Analysis by ICP-DRC-MS All sample digests for batch TM1 dissolved arsenic, copper, and selenium analysis were analyzed by inductively coupled plasma dynamic reaction cell mass spectrometry (ICP-DRC-MS) on October 22, 2013. All sample digests associated with batch TM2 were analyzed on November 1, 2013, using the same analytical platform. Aliquots of each sample are introduced into a radio frequency (RF) plasma where energy-transfer processes cause desolvation, atomization, and ionization. The ions are extracted from the plasma through a differentially-pumped vacuum interface and travel through a pressurized chamber (DRC) containing a specific reactive gas which preferentially reacts with interfering ions of the same target mass to charge ratios (m/z). A solid-state detector detects ions transmitted through the mass analyzer, on the basis of their mass-to-charge ratio (m/z), and the resulting current is processed by a data handling system.

4. Analytical Issues

The overall analyses went well and no significant analytical issues were encountered. All quality control parameters associated with these samples were within acceptance limits.

The estimated method detection limits (eMDL) for dissolved metals have been calculated using the standard deviation of the preparation blanks preserved and analyzed concurrently with the submitted samples.

If you have any questions or concerns regarding this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'J. Maute', written in a cursive style.

Jeremy Maute
Project Coordinator
Applied Speciation and Consulting, LLC

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Received: 10/16/2013

Date Sampled: 10/1/2013

Client Sample ID
EMW-15D-100113

Laboratory Sample ID
EMW-15D-100113 Diss

Analyte	Method	Batch ID	Dilution	eMDL	Reporting	
					Limit	Concentration
Diss As	EPA 200.8	TM1	5	0.018	0.20	1.02
Diss Cu	EPA 200.8	TM1	5	0.060	0.20	0.410
Diss Se	EPA 200.8	TM1	5	0.039	0.20	0.092 J

All results are reported in $\mu\text{g/L}$ and reflect the applied dilution
J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Received: 10/16/2013

Date Sampled: 10/1/2013

Client Sample ID
EMW-3S-10013

Laboratory Sample ID
EMW-35-100113 Diss

Analyte	Method	Batch ID	Dilution	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	TM1	5	0.018	0.20	0.955
Diss Cu	EPA 200.8	TM1	5	0.060	0.20	0.610
Diss Se	EPA 200.8	TM1	5	0.039	0.20	0.047 J

All results are reported in µg/L and reflect the applied dilution
J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Received: 10/16/2013

Date Sampled: 10/1/2013

Client Sample ID
SLR-6-100113

Laboratory Sample ID
SLR-6-100113 Diss

Analyte	Method	Batch ID	Dilution	eMDL	Reporting	
					Limit	Concentration
Diss As	EPA 200.8	TM1	5	0.018	0.20	0.499
Diss Cu	EPA 200.8	TM1	5	0.060	0.20	2.85
Diss Se	EPA 200.8	TM1	5	0.039	0.20	< 0.039 U

All results are reported in $\mu\text{g/L}$ and reflect the applied dilution
U = Sample concentration is below the eMDL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013

Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Sampled: 10/1/2013

Date Received: 10/16/2013

Client Sample ID
HC-20-100113

Laboratory Sample ID
HC-20-100113 Diss

Analyte	Method	Batch ID	Dilution	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	TM1	5	0.018	0.20	19.7
Diss Cu	EPA 200.8	TM1	5	0.060	0.20	0.415
Diss Se	EPA 200.8	TM1	5	0.039	0.20	0.090 J

All results are reported in µg/L and reflect the applied dilution
J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Received: 10/16/2013

Date Sampled: 10/1/2013

Client Sample ID
EMW-13S-100113

Laboratory Sample ID
EMW-13S-100113 Diss

Analyte	Method	Batch ID	Dilution	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	TM1	5	0.018	0.20	283
Diss Cu	EPA 200.8	TM1	5	0.060	0.20	3.79
Diss Se	EPA 200.8	TM1	5	0.039	0.20	0.123 J

All results are reported in µg/L and reflect the applied dilution
J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Sampled: 10/1/2013

Date Received: 10/16/2013

Client Sample ID
CMW-6-100113
Laboratory Sample ID
CMW-6-100113 Diss

Analyte	Method	Batch ID	Dilution	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	TM1	5	0.018	0.20	57.7
Diss Cu	EPA 200.8	TM1	5	0.060	0.20	12.9
Diss Se	EPA 200.8	TM1	5	0.039	0.20	0.218

All results are reported in µg/L and reflect the applied dilution
J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Sampled: 10/1/2013 Date Received: 10/16/2013

Client Sample ID
EMW-10D-100113

Laboratory Sample ID
EMW-10D-100113 Diss

Analyte	Method	Batch ID	Dilution	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	TM1	5	0.018	0.20	0.520
Diss Cu	EPA 200.8	TM1	5	0.060	0.20	0.442
Diss Se	EPA 200.8	TM1	5	0.039	0.20	0.122 J

All results are reported in µg/L and reflect the applied dilution
J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
 Contact: Michele Poquiz

Date: November 5, 2013
 Report Generated by: Jeremy Maute
 Applied Speciation and Consulting, LLC

Quality Control Summary - Preparation Blank Summary

Analyte (µg/L)	Batch ID	PBW-1	PBW-2	PBW-3	PBW-4	Mean	StdDev	eMDL*	eMDL 5x	Sample RL
Diss As	TM1	0.011	0.011	0.002	-0.001	0.006	0.006	0.004	0.018	0.20
Diss Cu	TM1	0.058	0.071	0.068	0.104	0.075	0.020	0.012	0.060	0.20
Diss Se	TM1	-0.002	-0.027	0.002	-0.010	-0.009	0.013	0.008	0.039	0.20

eMDL = Estimated Method Detection Limit

* Please see narrative regarding eMDL calculations

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Quality Control Summary - Certified Reference Material

Analyte (µg/L)	Batch ID	LCS	True Value	Result	Recovery
Total As	TM1	LCS	400.0	400.1	100.0
Total As	TM1	TMDA-70	40.7	42.8	105.2
Total Cu	TM1	LCS	400.0	416.8	104.2
Total Cu	TM1	TMDA-70	399	414	103.8
Total Se	TM1	LCS	400.0	404.2	101.1
Total Se	TM1	TMDA-70	25.9	25.5	98.5

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Quality Control Summary - Matrix Duplicates

Analyte (µg/L)	Sample ID	Batch ID	Rep 1	Rep 2	Mean	RPD
Diss As	EMW-10D-100113	TM1	0.520	0.510	0.515	2.0
Diss Cu	EMW-10D-100113	TM1	0.442	0.451	0.447	2.1
Diss Se	EMW-10D-100113	TM1	0.122 J	0.117 J	0.119	4.7

J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
 Contact: Michele Poquiz

Date: November 5, 2013
 Report Generated by: Jeremy Maute
 Applied Speciation and Consulting, LLC

Quality Control Summary - Matrix Spike/ Matrix Spike Duplicate

Analyte (µg/L)	Sample ID	Batch ID	Spike Conc	MS Result	Recovery	Spike Conc	MSD Result	Recovery	RPD
Diss As	EMW-10D-100113	TM1	400.0	414.5	103.5	400.0	430.0	107.4	3.7
Diss Cu	EMW-10D-100113	TM1	400.0	358.9	89.6	400.0	379.6	94.8	5.6
Diss Se	EMW-10D-100113	TM1	400.0	396.9	99.2	400.0	428.5	107.1	7.6

Trace Element Results for Friedman and Bruya
 Contact: Michele Poquiz

Date: November 5, 2013

Report Generated by: Jeremy Maute
 Applied Speciation and Consulting, LLC

Date Sampled: 10/1/2013

Date Received: 10/16/2013

Client Sample ID
 EMW-56D-100113

Laboratory Sample ID
 EMW-56D-100113

Analyte	Method	Batch ID	Dilution	eMDL	Reporting	
					Limit	Concentration
Diss As	EPA 200.8	TM2	5	0.010	0.20	0.634
Diss Cu	EPA 200.8	TM2	5	0.18	0.20	0.44
Diss Se	EPA 200.8	TM2	5	0.072	0.20	< 0.072 U

All results are reported in µg/L and reflect the applied dilution

U = Sample concentration is below the eMDL

J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Received: 10/16/2013

Date Sampled: 10/1/2013

Client Sample ID
EMW-4D-100113
Laboratory Sample ID
EMW-4D-100113

Analyte	Method	Batch ID	Dilution	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	TM2	5	0.010	0.20	1.36
Diss Cu	EPA 200.8	TM2	5	0.18	0.20	0.41
Diss Se	EPA 200.8	TM2	5	0.072	0.20	< 0.072 U

All results are reported in µg/L and reflect the applied dilution

U = Sample concentration is below the eMDL

J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013

Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Sampled: 10/1/2013

Date Received: 10/16/2013

Client Sample ID
CMW-2-100113

Laboratory Sample ID
CMW-2-100113

Analyte	Method	Batch ID	Dilution	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	TM2	5	0.010	0.20	61.3
Diss Cu	EPA 200.8	TM2	5	0.18	0.20	1.84
Diss Se	EPA 200.8	TM2	5	0.072	0.20	0.127 J

All results are reported in µg/L and reflect the applied dilution

U = Sample concentration is below the eMDL

J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Received: 10/16/2013

Date Sampled: 10/1/2013

Client Sample ID
SLR-7-100113
Laboratory Sample ID
SLR-7-100113

Analyte	Method	Batch ID	Dilution	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	TM2	5	0.010	0.20	2.32
Diss Cu	EPA 200.8	TM2	5	0.18	0.20	0.74
Diss Se	EPA 200.8	TM2	5	0.072	0.20	< 0.072 U

All results are reported in µg/L and reflect the applied dilution

U = Sample concentration is below the eMDL

J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
 Contact: Michele Poquiz

Date: November 5, 2013
 Report Generated by: Jeremy Maute
 Applied Speciation and Consulting, LLC

Quality Control Summary - Preparation Blank Summary

Analyte (µg/L)	Batch ID	PBW-1	PBW-2	PBW-3	PBW-4	Mean	StdDev	eMDL*	eMDL 5x	Sample RL
Diss As	TM2	0.013	0.012	0.011	0.005	0.010	0.003	0.002	0.010	0.20
Diss Cu	TM2	0.02	0.12	0.00	-0.02	0.03	0.06	0.04	0.18	0.20
Diss Se	TM2	-0.058	-0.042	-0.025	-0.002	-0.032	0.024	0.014	0.072	0.20

eMDL = Estimated Method Detection Limit

* Please see narrative regarding eMDL calculations

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Quality Control Summary - Certified Reference Material

Analyte (µg/L)	Batch ID	LCS	True Value	Result	Recovery
Total As	TM2	LCS	400.0	370.3	92.6
Total As	TM2	TMDA-70	40.7	38.7	95.0
Total Cu	TM2	LCS	400.0	395.4	98.9
Total Cu	TM2	TMDA-70	399	388	97.3
Total Se	TM2	LCS	400.0	375.7	93.9
Total Se	TM2	TMDA-70	25.9	23.6	91.0

Trace Element Results for Friedman and Bruya
 Contact: Michele Poquiz

Date: November 5, 2013
 Report Generated by: Jeremy Maute
 Applied Speciation and Consulting, LLC

Quality Control Summary - Matrix Duplicates

Analyte (µg/L)	Sample ID	Batch ID	Rep 1	Rep 2	Mean	RPD
Diss As	Batch QC	TM2	5.444	5.524	5.484	1.5
Diss Cu	Batch QC	TM2	0.33	0.29	0.31	12.4
Diss Se	Batch QC	TM2	< 0.072 U	< 0.072 U	NC	NC

NC = Not calculated due to one or more values below the eMDL

U = Sample concentration is below the eMDL

J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
 Contact: Michele Poquiz

Date: November 5, 2013
 Report Generated by: Jeremy Maute
 Applied Speciation and Consulting, LLC

Quality Control Summary - Matrix Spike/ Matrix Spike Duplicate

Analyte (µg/L)	Sample ID	Batch ID	Spike		MS Result	Recovery	Spike Conc	MSD Result	Recovery	RPD
			Conc	Conc						
Diss As	Batch QC	TM2	400.0	400.0	375.7	92.6	400.0	431.3	106.4	13.8
Diss Cu	Batch QC	TM2	400.0	400.0	353.3	88.2	400.0	410.6	102.6	15.0
Diss Se	Batch QC	TM2	400.0	400.0	371.4	92.8	400.0	424.3	106.1	13.3

310013

SAMPLE CHAIN OF CUSTODY

KJ 10/01/13

BEY/14/AOS

Send Report To Mike Station
 Company SLR International Corp
 Address 22118 20th Ave SE, G202
 City, State, ZIP Bothell, WA, 98021
 Phone # 425-462-8800 Fax # 425-462-8488

SAMPLERS (signature) Am M. M. PO#
 PROJECT NAME/NO. 101.00205.00030
8th Ave Terminal, Inc. Site
Crowley
 REMARKS
101.00205.00030
NWTP4-Dx for DRO + Ho after silice and cleaning
Please submit sample for ICP-DRC-M3 as soon as possible.

Page # 1 of 2
 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 Station / 10/14/13

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED
ENW-1SD-100113	A-01W	10/11/13	0749	WATER	23	TPH-Diesel TPH-Gasoline BTEX by 8021B VOCs by 8260C SVOCs by 8270D HFS Total Priority Pollutants Total Hg by 1631E Dissolved Metals Dissolved H ₂ by 1631E PbAs by 8030 DJM PbAs by 8030 PbAs by 8030 TSS by 2540D TSS by 2540C Chloride by 5475A As by 8030 Cu by 16-DRC-3
ENW-135-100113	A-02W		0914		21	
SLR-6-100113	A-03W		1120			
HC-20-100113	A-04W		1311			
EMW-135-100113	A-05W		0756		23	
CMW-6-100113	A-06W		0939		21	
EMW-10D-100113	A-07W		1158		23	
EMW-56D-100113	A-08W		1100		21	
EMW-4D-100113	A-09W		0841			
CMW-2-100113	A-10W		1056			

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>Am M. M.</u>	Amada Mengjost	SLR	10/11/13	1559
Received by: <u>Am M. M.</u>	Nhan Phan	FEBI	10/11/13	1559
Relinquished by:				
Received by:				

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.
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Kurt Johnson, B.S.
Eric Young, B.S.

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November 6, 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 October 2, 2013 from the 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310050 project. There are 81 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
Chemist

Enclosures
SLR1106R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 2, 2013 by Friedman & Bruya, Inc. from the SLR International Corp. 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310050 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
310050-01	EMW-16D-100213
310050-02	EMW-6S-100213
310050-03	EMW-7S-100213
310050-04	CMW-1-100213
310050-05	SLR-2-100213
310050-06	DMW-6-100213
310050-07	CMW-7-100213
310050-08	EMW-5S-100213
310050-09	TB-100213

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

The percent recovery for the surrogate exceeded acceptance criteria for the sample SLR-2-100213. The sample was non-detect, therefore the results are valid.

Volatile Compounds by EPA Method 8260C

The presence of methylene chloride in the sample EMW-6S-100213 is likely due to laboratory contamination. The result has 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), matrix spike duplicate (MSD), laboratory control sample (LCS), and laboratory control sample duplicate (LCSD) failed high for bromomethane. This analyte was not identified in the samples, therefore the results are valid.

Semivolatile Organic Compounds by EPA Method 8270D

The presence of bis(2-ethylhexyl) phthalate in the samples and the method blank is likely due to laboratory contamination. The results have been flagged accordingly.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

The calibration result for bis(2-ethylhexyl) phthalate fell outside of acceptance criteria for the samples EMW-6S-100213, SLR-2-100213, DMW-6-100213, CMW-7-100213, and EMW-5S-100213. The values reported are estimates.

Semivolatile Organic Compounds by EPA Method 8270D SIM

The sample DMW-6-100213 was diluted due to matrix interferences. The reporting limits have been raised accordingly.

A surrogate recovery failed high for the method blank. The sample was non-detect, therefore the results are valid.

Polychlorinated Biphenyls as Aroclor 1016/1260 by EPA Method 8082A

All quality control requirements were acceptable.

Total Metals by EPA Method 200.8

Compounds in the sample matrix interfered with the quantitation of arsenic and selenium. The results have been flagged accordingly.

The reporting limit for arsenic was raised due to potential low level laboratory contamination.

The internal standard associated with several analytes exceeded acceptance criteria for the samples EMW-16D-100213 and CMW-1-100213. The samples were diluted and reanalyzed. The results for the full strength and the dilution analyses are included.

The percent recovery for the MS and/or MSD exceeded acceptance criteria for beryllium, silver and cadmium. In addition, the RPD for the MS/MSD exceeded acceptance criteria for cadmium. The results have been flagged accordingly.

Dissolved Metals by EPA Method 200.8

Arsenic, selenium and copper were not reported. Please see the report issued by Applied Speciation and Consulting (ASC) for results for these analytes.

The internal standard associated with several analytes exceeded acceptance criteria for the samples EMW-16D-100213 and CMW-1-100213. The samples were diluted and reanalyzed. The results for the full strength and the dilution analyses are included.

Total Mercury by EPA Method 1631E

The reporting limit was raised due to potential low level laboratory contamination.

Dissolved Mercury by EPA Method 1631E

The reporting limit was raised due to potential low level laboratory contamination.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Total Suspended Solids by Method 2540D

All quality control requirements were acceptable.

Total Dissolved Solids by Method 2540C

The samples were sent to Analytical Resources, Inc. (ARI) for analysis. The report generated by ARI is enclosed.

Chloride by Method SM4500

The samples were sent to ARI for analysis. The report generated by ARI is enclosed.

Dissolved Metals by ICP-DRC-MS

The samples were sent to Applied Speciation and Consulting (ASC) for analysis. The report generated by ASC is enclosed.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/06/13

Date Received: 10/02/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310050

Date Extracted: 10/08/13

Date Analyzed: 10/08/13

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

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 51-134)
EMW-16D-100213 310050-01	<12	77
EMW-6S-100213 310050-02	<12	79
EMW-7S-100213 310050-03	<12	76
CMW-1-100213 310050-04	<12	77
SLR-2-100213 310050-05	<12	77
DMW-6-100213 310050-06	<12	76
CMW-7-100213 310050-07	<12	77
EMW-5S-100213 310050-08	<12	77
Method Blank 03-1962 MB	<12	77

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/06/13

Date Received: 10/02/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310050

Date Extracted: 10/07/13

Date Analyzed: 10/11/13

**RESULTS FROM THE ANALYSIS OF WATER 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 as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> (% Recovery) (Limit 51-134)
EMW-16D-100213 310050-01	<6.9	<52	97
EMW-6S-100213 310050-02	<6.9	<52	102
EMW-7S-100213 310050-03	<6.9	<52	104
CMW-1-100213 310050-04	<6.9	<52	89
SLR-2-100213 310050-05	<6.9	<52	193 vo
DMW-6-100213 310050-06	<6.9	<52	96
CMW-7-100213 310050-07	<6.9	<52	96
EMW-5S-100213 310050-08	<6.9	<52	105
Method Blank 03-2026 MB	<6.9	<52	94

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-16D-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/07/13	Lab ID:	310050-01
Date Analyzed:	10/08/13	Data File:	100745.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	101	50	150
4-Bromofluorobenzene	102	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 j
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:	EMW-6S-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/07/13	Lab ID:	310050-02
Date Analyzed:	10/08/13	Data File:	100746.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	100	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	13 lc	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	6.8 lc	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 j
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:	EMW-7S-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/07/13	Lab ID:	310050-03
Date Analyzed:	10/08/13	Data File:	100747.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	100	50	150
4-Bromofluorobenzene	101	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 j
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:	CMW-1-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/07/13	Lab ID:	310050-04
Date Analyzed:	10/08/13	Data File:	100748.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	100	50	150
4-Bromofluorobenzene	100	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	0.18	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 j
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:	SLR-2-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/07/13	Lab ID:	310050-05
Date Analyzed:	10/08/13	Data File:	100749.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	50	150
Toluene-d8	102	50	150
4-Bromofluorobenzene	102	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 j
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:	DMW-6-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/07/13	Lab ID:	310050-06
Date Analyzed:	10/08/13	Data File:	100750.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	101	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 j
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:	CMW-7-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/07/13	Lab ID:	310050-07
Date Analyzed:	10/08/13	Data File:	100751.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	100	50	150
4-Bromofluorobenzene	102	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 j
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:	EMW-5S-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/07/13	Lab ID:	310050-08
Date Analyzed:	10/08/13	Data File:	100752.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	103	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	0.25	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 j
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:	TB-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/07/13	Lab ID:	310050-09
Date Analyzed:	10/08/13	Data File:	100744.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	100	50	150
4-Bromofluorobenzene	101	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 j
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:	101.00205.00030, F&BI 310050
Date Extracted:	10/07/13	Lab ID:	03-1992 mb
Date Analyzed:	10/07/13	Data File:	100726.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	99	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 j
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 Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-16D-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/07/13	Lab ID:	310050-01
Date Analyzed:	10/09/13	Data File:	100910.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	49	32	162
Phenol-d6	30	10	170
Nitrobenzene-d5	90	50	150
2-Fluorobiphenyl	89	43	158
2,4,6-Tribromophenol	86	43	146
Terphenyl-d14	106	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.19 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-6S-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/07/13	Lab ID:	310050-02
Date Analyzed:	10/08/13	Data File:	100813.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	44	32	162
Phenol-d6	25	10	170
Nitrobenzene-d5	81	50	150
2-Fluorobiphenyl	87	43	158
2,4,6-Tribromophenol	116	43	146
Terphenyl-d14	132	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.19 fb ca
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-7S-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/07/13	Lab ID:	310050-03
Date Analyzed:	10/09/13	Data File:	100911.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	50	32	162
Phenol-d6	34	10	170
Nitrobenzene-d5	95	50	150
2-Fluorobiphenyl	90	43	158
2,4,6-Tribromophenol	118	43	146
Terphenyl-d14	95	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.24 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	CMW-1-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/07/13	Lab ID:	310050-04
Date Analyzed:	10/09/13	Data File:	100912.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	52	32	162
Phenol-d6	26	10	170
Nitrobenzene-d5	84	50	150
2-Fluorobiphenyl	85	43	158
2,4,6-Tribromophenol	89	43	146
Terphenyl-d14	98	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.41 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	SLR-2-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/07/13	Lab ID:	310050-05
Date Analyzed:	10/08/13	Data File:	100816.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	42	32	162
Phenol-d6	22	10	170
Nitrobenzene-d5	87	50	150
2-Fluorobiphenyl	91	43	158
2,4,6-Tribromophenol	103	43	146
Terphenyl-d14	103	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	0.14
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.23 fb ca
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	DMW-6-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/07/13	Lab ID:	310050-06
Date Analyzed:	10/08/13	Data File:	100817.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	46	32	162
Phenol-d6	30	10	170
Nitrobenzene-d5	87	50	150
2-Fluorobiphenyl	87	43	158
2,4,6-Tribromophenol	108	43	146
Terphenyl-d14	95	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.23 fb ca
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	CMW-7-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/07/13	Lab ID:	310050-07
Date Analyzed:	10/08/13	Data File:	100818.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	46	32	162
Phenol-d6	28	10	170
Nitrobenzene-d5	90	50	150
2-Fluorobiphenyl	95	43	158
2,4,6-Tribromophenol	105	43	146
Terphenyl-d14	102	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.21 fb ca
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-5S-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/07/13	Lab ID:	310050-08
Date Analyzed:	10/08/13	Data File:	100819.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	53	32	162
Phenol-d6	31	10	170
Nitrobenzene-d5	96	50	150
2-Fluorobiphenyl	99	43	158
2,4,6-Tribromophenol	128	43	146
Terphenyl-d14	125	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.19 fb ca
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

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:	101.00205.00030, F&BI 310050
Date Extracted:	10/07/13	Lab ID:	03-1985 mb
Date Analyzed:	10/09/13	Data File:	100909.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	49	32	162
Phenol-d6	30	10	170
Nitrobenzene-d5	97	50	150
2-Fluorobiphenyl	96	43	158
2,4,6-Tribromophenol	113	43	146
Terphenyl-d14	120	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.22 lc
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-16D-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/07/13	Lab ID:	310050-01
Date Analyzed:	10/08/13	Data File:	100812.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	91	50	150
Benzo(a)anthracene-d12	101	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.0042
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	<0.0028
Fluoranthene	<0.0046
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-6S-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/07/13	Lab ID:	310050-02
Date Analyzed:	10/08/13	Data File:	100813.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	111	50	150
Benzo(a)anthracene-d12	120	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.0058
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	<0.0028
Fluoranthene	<0.0046
Pyrene	<0.0036
Benzo(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-7S-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/07/13	Lab ID:	310050-03
Date Analyzed:	10/08/13	Data File:	100814.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	60	50	150
Benzo(a)anthracene-d12	64	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.004
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	<0.0028
Fluoranthene	<0.0046
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	0.016
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	CMW-1-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/07/13	Lab ID:	310050-04
Date Analyzed:	10/08/13	Data File:	100815.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	52	50	150
Benzo(a)anthracene-d12	51	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.004
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	<0.0028
Fluoranthene	<0.0046
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	SLR-2-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/07/13	Lab ID:	310050-05
Date Analyzed:	10/08/13	Data File:	100816.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	104	50	150
Benzo(a)anthracene-d12	108	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.004
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	<0.0028
Fluoranthene	<0.0046
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	DMW-6-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/07/13	Lab ID:	310050-06
Date Analyzed:	10/08/13	Data File:	100817.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	123	50	150
Benzo(a)anthracene-d12	135 ip	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.067
Acenaphthylene	<0.0024
Acenaphthene	2.8 ve
Fluorene	0.0042
Phenanthrene	0.019
Anthracene	0.012
Fluoranthene	0.012
Pyrene	0.0083
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	DMW-6-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/07/13	Lab ID:	310050-06 1/10
Date Analyzed:	10/09/13	Data File:	100912.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower	Upper
Anthracene-d10	228 ds	Limit:	Limit:
Benzo(a)anthracene-d12	138 ds	50	150
		50	129

Compounds:	Concentration
	ug/L (ppb)
Naphthalene	0.066
Acenaphthylene	<0.024
Acenaphthene	3.1
Fluorene	<0.04
Phenanthrene	<0.066
Anthracene	<0.028
Fluoranthene	<0.046
Pyrene	<0.036
Benzo(a)anthracene	<0.042
Chrysene	<0.038
Benzo(a)pyrene	<0.078
Benzo(b)fluoranthene	<0.052
Benzo(k)fluoranthene	<0.076
Indeno(1,2,3-cd)pyrene	<0.07
Dibenz(a,h)anthracene	<0.04
Benzo(g,h,i)perylene	<0.044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	CMW-7-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/07/13	Lab ID:	310050-07
Date Analyzed:	10/08/13	Data File:	100818.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	115	50	150
Benzo(a)anthracene-d12	120	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.0053
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	0.0056
Fluoranthene	<0.0046
Pyrene	<0.0036
Benzo(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-5S-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/07/13	Lab ID:	310050-08
Date Analyzed:	10/08/13	Data File:	100819.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	110	50	150
Benzo(a)anthracene-d12	118	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.004
Acenaphthylene	<0.0024
Acenaphthene	0.0046
Fluorene	<0.004
Phenanthrene	0.012
Anthracene	<0.0028
Fluoranthene	<0.0046
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/07/13	Lab ID:	03-1984 mb
Date Analyzed:	10/08/13	Data File:	100811.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	119	50	150
Benzo(a)anthracene-d12	131 vo	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.004
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	<0.0028
Fluoranthene	<0.0046
Pyrene	<0.0036
Benzo(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EMW-16D-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/08/13	Lab ID:	310050-01 1/0.25
Date Analyzed:	10/16/13	Data File:	101622.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	MCP

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	83	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EMW-6S-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/08/13	Lab ID:	310050-02 1/0.25
Date Analyzed:	10/16/13	Data File:	101624.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	MCP

Surrogates:	% Recovery:	Lower	Upper
TCMX	98	Limit:	Limit:
		50	150

Compounds:	Concentration
	ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EMW-7S-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/08/13	Lab ID:	310050-03 1/0.25
Date Analyzed:	10/16/13	Data File:	101626.D\ECED1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	MCP

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

Compounds:	Concentration
	ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	CMW-1-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/08/13	Lab ID:	310050-04 1/0.25
Date Analyzed:	10/16/13	Data File:	101632.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	MCP

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

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	SLR-2-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/08/13	Lab ID:	310050-05 1/0.25
Date Analyzed:	10/16/13	Data File:	101634.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	MCP

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

Compounds:	Concentration
	ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	DMW-6-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/08/13	Lab ID:	310050-06 1/0.25
Date Analyzed:	10/17/13	Data File:	101636.D\ECED1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	MCP

Surrogates:	% Recovery:	Lower	Upper
TCMX	89	Limit:	Limit:
		50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	CMW-7-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/08/13	Lab ID:	310050-07 1/0.25
Date Analyzed:	10/17/13	Data File:	101638.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	MCP

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

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EMW-5S-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/08/13	Lab ID:	310050-08 1/0.25
Date Analyzed:	10/17/13	Data File:	40.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	MCP

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	105	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/08/13	Lab ID:	03-2028 mb 1/0.25
Date Analyzed:	10/16/13	Data File:	12.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	MCP

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

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-16D-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/15/13	Lab ID:	310050-01
Date Analyzed:	10/28/13	Data File:	310050-01.015
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	69	60	125
Indium	40 vo	60	125
Holmium	50 vo	60	125

Analyte:	Concentration ug/L (ppb)
Cadmium	<0.0940 J
Antimony	0.503 J
Thallium	<0.0740 J
Lead	<0.144 J

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-16D-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/15/13	Lab ID:	310050-01 x10
Date Analyzed:	10/28/13	Data File:	310050-01 x10.019
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	91	60	125
Indium	84	60	125
Holmium	84	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	<1.38
Nickel	7.90
Copper	4.20
Zinc	<6.00
Arsenic	41.0 ip
Selenium	130 ip
Silver	<0.640
Cadmium	<0.940
Antimony	<0.520
Barium	256
Thallium	<0.740
Lead	<1.44

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-6S-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/15/13	Lab ID:	310050-02
Date Analyzed:	10/28/13	Data File:	310050-02.016
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	100	60	125
Indium	97	60	125
Holmium	92	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.368
Nickel	0.983
Copper	1.44
Zinc	0.786
Arsenic	1.28 ip
Selenium	0.681 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	1.58
Barium	7.59
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-7S-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/15/13	Lab ID:	310050-03
Date Analyzed:	10/28/13	Data File:	310050-03.017
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	111	60	125
Indium	93	60	125
Holmium	90	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.951
Nickel	0.918
Copper	0.456
Zinc	<0.600
Arsenic	2.51 ip
Selenium	0.841 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.0650
Barium	12.7
Thallium	<0.0740
Lead	0.179

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	CMW-1-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/15/13	Lab ID:	310050-04
Date Analyzed:	10/28/13	Data File:	310050-04.060
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	49 vo	60	125
Indium	45 vo	60	125
Holmium	51 vo	60	125

Analyte:	Concentration ug/L (ppb)
Cadmium	<0.0940 J
Thallium	<0.0740 J
Lead	0.178 J

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	CMW-1-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/15/13	Lab ID:	310050-04 x10
Date Analyzed:	10/28/13	Data File:	310050-04 x10.065
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	76	60	125
Indium	76	60	125
Holmium	73	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	<1.38
Nickel	7.91
Copper	6.18
Zinc	51.1
Arsenic	38.4 ip
Selenium	110 ip
Silver	0.640
Cadmium	<0.940
Antimony	1.01
Barium	82.8
Thallium	<0.740
Lead	<1.44

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	SLR-2-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/15/13	Lab ID:	310050-05
Date Analyzed:	10/28/13	Data File:	310050-05.052
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	80	60	125
Indium	77	60	125
Holmium	76	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.758
Nickel	1.57
Copper	3.52
Zinc	1.94
Arsenic	1.49 ip
Selenium	0.943 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	2.20
Barium	5.83
Thallium	<0.0740
Lead	0.266

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	DMW-6-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/15/13	Lab ID:	310050-06
Date Analyzed:	10/28/13	Data File:	310050-06.061
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	107	60	125
Indium	81	60	125
Holmium	76	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.63
Nickel	0.570
Copper	0.523
Zinc	2.91
Arsenic	56.1 ip
Selenium	3.13 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.0680
Barium	11.6
Thallium	<0.0740
Lead	0.170

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	CMW-7-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/15/13	Lab ID:	310050-07
Date Analyzed:	10/28/13	Data File:	310050-07.054
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	80	60	125
Indium	78	60	125
Holmium	77	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.368
Nickel	6.35
Copper	2.45
Zinc	5.75
Arsenic	4.12 ip
Selenium	10.6 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.274
Barium	32.9
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-5S-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/15/13	Lab ID:	310050-08
Date Analyzed:	10/28/13	Data File:	310050-08.053
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	90	60	125
Indium	80	60	125
Holmium	78	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.777
Nickel	2.02
Copper	0.717
Zinc	1.05
Arsenic	2.81 ip
Selenium	0.951 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.0590
Barium	15.4
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/15/13	Lab ID:	I3-683 mb
Date Analyzed:	10/28/13	Data File:	I3-683 mb.013
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	101	60	125
Indium	98	60	125
Holmium	96	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	<0.138
Nickel	<0.460
Copper	<0.340
Zinc	<0.600
Arsenic	<1.00
Selenium	<0.560
Silver	<0.0640
Cadmium	<0.0940
Antimony	<0.0520
Barium	<0.260
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-16D-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/14/13	Lab ID:	310050-01
Date Analyzed:	10/14/13	Data File:	310050-01.074
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	55 vo	60	125
Indium	37 vo	60	125
Holmium	38 vo	60	125

Analyte:	Concentration ug/L (ppb)
Cadmium	<0.0940 J
Thallium	<0.0740 J
Lead	<0.144 J

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-16D-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/14/13	Lab ID:	310050-01 x10
Date Analyzed:	10/14/13	Data File:	310050-01 x10.047
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	82	60	125
Indium	82	60	125
Holmium	87	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	1.39
Nickel	8.23
Zinc	10.9
Silver	<0.640
Cadmium	<0.940
Antimony	4.78
Barium	256
Thallium	<0.740
Lead	<1.44

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-6S-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/14/13	Lab ID:	310050-02
Date Analyzed:	10/14/13	Data File:	310050-02.066
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	84	60	125
Indium	88	60	125
Holmium	92	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.360
Nickel	0.959
Zinc	10.5
Silver	<0.0640
Cadmium	<0.0940
Antimony	1.52
Barium	8.00
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-7S-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/14/13	Lab ID:	310050-03
Date Analyzed:	10/14/13	Data File:	310050-03.067
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	95	60	125
Indium	88	60	125
Holmium	91	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.03
Nickel	0.925
Zinc	5.80
Silver	<0.0640
Cadmium	<0.0940
Antimony	<0.0520
Barium	12.8
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	CMW-1-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/14/13	Lab ID:	310050-04
Date Analyzed:	10/14/13	Data File:	310050-04.072
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	48 vo	60	125
Indium	49 vo	60	125
Holmium	48 vo	60	125

Analyte:	Concentration ug/L (ppb)
Cadmium	<0.0940 J
Thallium	<0.0740 J

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	CMW-1-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/14/13	Lab ID:	310050-04 x10
Date Analyzed:	10/14/13	Data File:	310050-04 x10.051
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	81	60	125
Indium	83	60	125
Holmium	89	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	1.44
Nickel	8.39
Zinc	50.5
Silver	0.780
Cadmium	<0.940
Antimony	1.91
Barium	79.0
Thallium	<0.740
Lead	8.60

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	SLR-2-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/14/13	Lab ID:	310050-05
Date Analyzed:	10/14/13	Data File:	310050-05.068
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	86	60	125
Indium	91	60	125
Holmium	94	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.695
Nickel	1.12
Zinc	1.81
Silver	<0.0640
Cadmium	<0.0940
Antimony	2.47
Barium	3.08
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	DMW-6-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/14/13	Lab ID:	310050-06
Date Analyzed:	10/14/13	Data File:	310050-06.073
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	109	60	125
Indium	96	60	125
Holmium	101	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.56
Nickel	0.797
Zinc	2.72
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.0800
Barium	11.8
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	CMW-7-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/14/13	Lab ID:	310050-07
Date Analyzed:	10/14/13	Data File:	310050-07.069
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	82	60	125
Indium	85	60	125
Holmium	87	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.504
Nickel	8.07
Zinc	6.99
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.271
Barium	31.0
Thallium	<0.0740
Lead	0.163

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-5S-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/14/13	Lab ID:	310050-08
Date Analyzed:	10/14/13	Data File:	310050-08.070
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	97	60	125
Indium	95	60	125
Holmium	96	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.967
Nickel	3.09
Zinc	3.75
Silver	<0.0640
Cadmium	<0.0940
Antimony	<0.0520
Barium	15.2
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/14/13	Lab ID:	I3-677 mb
Date Analyzed:	10/14/13	Data File:	I3-677 mb.043
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	87	60	125
Indium	98	60	125
Holmium	108	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	<0.138
Nickel	<0.460
Zinc	<0.600
Silver	<0.0640
Cadmium	<0.0940
Antimony	<0.0520
Barium	<0.260
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/06/13

Date Received: 10/02/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310050

Date Extracted: 10/03/13

Date Analyzed: 10/04/13

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

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Total Mercury</u>
EMW-16D-100213 310050-01	<0.0015
EMW-6S-100213 310050-02	<0.0015
EMW-7S-100213 310050-03	<0.0015
CMW-1-100213 310050-04	0.0016
SLR-2-100213 310050-05	0.0034
DMW-6-100213 310050-06	<0.0015
CMW-7-100213 310050-07	0.0020
EMW-5S-100213 310050-08	<0.0015
Method Blank	<0.0015

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/06/13

Date Received: 10/02/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310050

Date Extracted: 10/09/13

Date Analyzed: 10/10/13

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR DISSOLVED MERCURY
USING EPA METHOD 1631E**

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Dissolved Mercury</u>
EMW-16D-100213 310050-01	0.0018
EMW-6S-100213 310050-02	<0.0015
EMW-7S-100213 310050-03	<0.0015
CMW-1-100213 310050-04	0.0015
SLR-2-100213 310050-05	0.0027
DMW-6-100213 310050-06	<0.0015
CMW-7-100213 310050-07	0.0021
EMW-5S-100213 310050-08	<0.0015
Method Blank	<0.0015

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/06/13

Date Received: 10/02/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310050

Date Extracted: NA

Date Analyzed: 10/03/13

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL SUSPENDED SOLIDS
BY METHOD 2540D**

Results Reported as mg/L (ppm)

<u>Sample ID</u> Laboratory ID	Total Suspended <u>Solids</u>
EMW-16D-100213 310050-01	18
EMW-6S-100213 310050-02	<9.7
EMW-7S-100213 310050-04	<9.7
CMW-1-100213 310050-04	<9.7
SLR-2-100213 310050-05	<9.7
DMW-6-100213 310050-06	<9.7
CMW-7-100213 310050-07	<9.7
EMW-5S-100213 310050-08	<9.7
Method Blank	<9.7

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/06/13

Date Received: 10/02/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310050

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TPH AS GASOLINE
USING METHOD NWTPH-Gx**

Laboratory Code: 310050-07 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Gasoline	ug/L (ppb)	<12	<12	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	ug/L (ppb)	1,000	100	69-134

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/06/13

Date Received: 10/02/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310050

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

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	500	67	75	58-134	11

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/06/13

Date Received: 10/02/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310050

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

Laboratory Code: 309543-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Dichlorodifluoromethane	ug/L (ppb)	50	<-0.16	94	55-144
Chloromethane	ug/L (ppb)	50	<-0.22	95	67-131
Vinyl chloride	ug/L (ppb)	50	0.57	96	61-139
Bromomethane	ug/L (ppb)	50	<-0.2	226 vo	66-129
Chloroethane	ug/L (ppb)	50	<-0.18	99	68-126
Trichlorofluoromethane	ug/L (ppb)	50	<-0.17	97	71-128
Acetone	ug/L (ppb)	250	<-2.6	79	48-149
1,1-Dichloroethene	ug/L (ppb)	50	<-0.19	93	71-123
Methylene chloride	ug/L (ppb)	50	<3	100	61-126
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	<-0.13	95	68-125
trans-1,2-Dichloroethene	ug/L (ppb)	50	<-0.24	93	72-122
1,1-Dichloroethane	ug/L (ppb)	50	<-0.18	94	79-113
2,2-Dichloropropane	ug/L (ppb)	50	<-0.3	104	58-132
cis-1,2-Dichloroethene	ug/L (ppb)	50	<-0.24	89	73-119
Chloroform	ug/L (ppb)	50	<-0.24	93	80-112
2-Butanone (MEK)	ug/L (ppb)	250	<-0.94	86	69-123
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<-0.11	93	78-113
1,1,1-Trichloroethane	ug/L (ppb)	50	<-0.2	97	79-116
1,1-Dichloropropene	ug/L (ppb)	50	<-0.26	94	67-121
Carbon tetrachloride	ug/L (ppb)	50	<-0.24	101	72-123
Benzene	ug/L (ppb)	50	<-0.13	91	79-109
Trichloroethene	ug/L (ppb)	50	<-0.17	90	75-109
1,2-Dichloropropane	ug/L (ppb)	50	<-0.32	95	80-111
Bromodichloromethane	ug/L (ppb)	50	<-0.38	97	78-117
Dibromomethane	ug/L (ppb)	50	<-0.28	93	80-112
4-Methyl-2-pentanone	ug/L (ppb)	250	<-1.3	109	79-123
cis-1,3-Dichloropropene	ug/L (ppb)	50	<-0.2	103	76-120
Toluene	ug/L (ppb)	50	<-0.13	91	73-117
trans-1,3-Dichloropropene	ug/L (ppb)	50	<-0.34	107	75-122
1,1,2-Trichloroethane	ug/L (ppb)	50	<-0.28	99	81-111
2-Hexanone	ug/L (ppb)	250	<1	99	75-126
1,3-Dichloropropane	ug/L (ppb)	50	<-0.2	95	81-111
Tetrachloroethene	ug/L (ppb)	50	<-0.28	94	72-113
Dibromochloromethane	ug/L (ppb)	50	<-0.24	104	69-129
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	<-0.24	99	83-114
Chlorobenzene	ug/L (ppb)	50	<-0.1	90	75-115
Ethylbenzene	ug/L (ppb)	50	<-0.16	95	71-120
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	<-0.32	101	78-122
m,p-Xylene	ug/L (ppb)	100	<-0.5	94	63-128
o-Xylene	ug/L (ppb)	50	<-0.22	96	64-129
Styrene	ug/L (ppb)	50	<-0.22	97	70-122
Isopropylbenzene	ug/L (ppb)	50	<-0.15	96	76-118
Bromoform	ug/L (ppb)	50	<-0.22	110	49-138
n-Propylbenzene	ug/L (ppb)	50	<-0.14	95	74-117
Bromobenzene	ug/L (ppb)	50	<-0.18	95	70-121
1,3,5-Trimethylbenzene	ug/L (ppb)	50	<-0.18	96	81-112
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	<-0.24	97	79-120
1,2,3-Trichloropropane	ug/L (ppb)	50	<-0.28	94	72-119
2-Chlorotoluene	ug/L (ppb)	50	<-0.13	93	77-114
4-Chlorotoluene	ug/L (ppb)	50	<-0.16	93	81-109
tert-Butylbenzene	ug/L (ppb)	50	<-0.15	98	81-116
1,2,4-Trimethylbenzene	ug/L (ppb)	50	<-0.11	95	74-118
sec-Butylbenzene	ug/L (ppb)	50	<-0.12	97	77-118
p-Isopropyltoluene	ug/L (ppb)	50	<-0.15	95	64-132
1,3-Dichlorobenzene	ug/L (ppb)	50	<-0.15	90	81-111
1,4-Dichlorobenzene	ug/L (ppb)	50	<-0.094	87	78-110
1,2-Dichlorobenzene	ug/L (ppb)	50	<-0.13	90	81-111
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	<-0.44	101	69-129
1,2,4-Trichlorobenzene	ug/L (ppb)	50	<-0.34	91	74-115
Hexachlorobutadiene	ug/L (ppb)	50	<-0.46	89	67-120
Naphthalene	ug/L (ppb)	50	<-0.28	99	63-136
1,2,3-Trichlorobenzene	ug/L (ppb)	50	<-0.38	90	79-115

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/06/13

Date Received: 10/02/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310050

**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	104	107	54-149	3
Chloromethane	ug/L (ppb)	50	100	101	67-133	1
Vinyl chloride	ug/L (ppb)	50	102	103	73-132	1
Bromomethane	ug/L (ppb)	50	270 vo	256 vo	69-123	5
Chloroethane	ug/L (ppb)	50	104	105	68-126	1
Trichlorofluoromethane	ug/L (ppb)	50	105	107	70-132	2
Acetone	ug/L (ppb)	250	102	104	44-145	2
1,1-Dichloroethene	ug/L (ppb)	50	102	102	75-119	0
Methylene chloride	ug/L (ppb)	50	106	108	63-132	2
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	103	105	70-122	2
trans-1,2-Dichloroethene	ug/L (ppb)	50	100	102	76-118	2
1,1-Dichloroethane	ug/L (ppb)	50	101	103	80-116	2
2,2-Dichloropropane	ug/L (ppb)	50	111	115	62-141	4
cis-1,2-Dichloroethene	ug/L (ppb)	50	97	98	81-111	1
Chloroform	ug/L (ppb)	50	100	101	81-109	1
2-Butanone (MEK)	ug/L (ppb)	250	97	101	53-140	4
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	99	101	79-109	2
1,1,1-Trichloroethane	ug/L (ppb)	50	104	106	80-116	2
1,1-Dichloropropene	ug/L (ppb)	50	102	104	78-112	2
Carbon tetrachloride	ug/L (ppb)	50	109	111	72-128	2
Benzene	ug/L (ppb)	50	98	99	81-108	1
Trichloroethene	ug/L (ppb)	50	97	100	77-108	3
1,2-Dichloropropane	ug/L (ppb)	50	103	105	82-109	2
Bromodichloromethane	ug/L (ppb)	50	106	108	76-120	2
Dibromomethane	ug/L (ppb)	50	102	104	80-110	2
4-Methyl-2-pentanone	ug/L (ppb)	250	119	121	59-142	2
cis-1,3-Dichloropropene	ug/L (ppb)	50	111	115	76-128	4
Toluene	ug/L (ppb)	50	97	98	83-108	1
trans-1,3-Dichloropropene	ug/L (ppb)	50	113	116	76-128	3
1,1,2-Trichloroethane	ug/L (ppb)	50	107	108	82-110	1
2-Hexanone	ug/L (ppb)	250	107	110	53-145	3
1,3-Dichloropropane	ug/L (ppb)	50	102	103	83-110	1
Tetrachloroethene	ug/L (ppb)	50	102	104	78-109	2
Dibromochloromethane	ug/L (ppb)	50	112	113	63-140	1
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	107	107	85-113	0
Chlorobenzene	ug/L (ppb)	50	97	97	84-108	0
Ethylbenzene	ug/L (ppb)	50	101	102	84-110	1
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	107	108	76-125	1
m,p-Xylene	ug/L (ppb)	100	101	102	84-112	1
o-Xylene	ug/L (ppb)	50	103	103	82-113	0
Styrene	ug/L (ppb)	50	104	105	84-116	1
Isopropylbenzene	ug/L (ppb)	50	102	104	81-122	2
Bromoform	ug/L (ppb)	50	114	115	40-161	1
n-Propylbenzene	ug/L (ppb)	50	103	105	81-115	2
Bromobenzene	ug/L (ppb)	50	103	104	80-113	1
1,3,5-Trimethylbenzene	ug/L (ppb)	50	104	106	83-117	2
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	104	105	79-118	1
1,2,3-Trichloropropane	ug/L (ppb)	50	100	102	74-116	2
2-Chlorotoluene	ug/L (ppb)	50	102	103	79-112	1
4-Chlorotoluene	ug/L (ppb)	50	101	102	81-113	1
tert-Butylbenzene	ug/L (ppb)	50	106	107	81-119	1
1,2,4-Trimethylbenzene	ug/L (ppb)	50	102	104	83-116	2
sec-Butylbenzene	ug/L (ppb)	50	105	107	83-116	2
p-Isopropyltoluene	ug/L (ppb)	50	103	104	82-119	1
1,3-Dichlorobenzene	ug/L (ppb)	50	97	99	83-111	2
1,4-Dichlorobenzene	ug/L (ppb)	50	93	94	82-109	1
1,2-Dichlorobenzene	ug/L (ppb)	50	98	99	83-111	1
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	108	110	62-133	2
1,2,4-Trichlorobenzene	ug/L (ppb)	50	99	101	77-117	2
Hexachlorobutadiene	ug/L (ppb)	50	98	98	74-118	0
Naphthalene	ug/L (ppb)	50	108	109	75-131	1
1,2,3-Trichlorobenzene	ug/L (ppb)	50	99	100	82-115	1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/06/13

Date Received: 10/02/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310050

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
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	ug/L (ppb)	10	32	37	18-52	14
Bis(2-chloroethyl) ether	ug/L (ppb)	10	85	93	52-113	9
2-Chlorophenol	ug/L (ppb)	10	86	95	50-110	10
1,3-Dichlorobenzene	ug/L (ppb)	10	83	85	45-109	2
1,4-Dichlorobenzene	ug/L (ppb)	10	84	85	44-118	1
1,2-Dichlorobenzene	ug/L (ppb)	10	86	87	46-116	1
Benzyl alcohol	ug/L (ppb)	10	75	82	42-100	9
Bis(2-chloroisopropyl) ether	ug/L (ppb)	10	92	97	51-124	5
2-Methylphenol	ug/L (ppb)	10	77	85	38-100	10
Hexachloroethane	ug/L (ppb)	10	82	84	42-117	2
N-Nitroso-di-n-propylamine	ug/L (ppb)	10	92	102	48-124	10
3-Methylphenol + 4-Methylphenol	ug/L (ppb)	10	72	78	48-87	8
Nitrobenzene	ug/L (ppb)	10	86	92	50-118	7
Isophorone	ug/L (ppb)	10	99	105	55-116	6
2-Nitrophenol	ug/L (ppb)	10	98	107	42-127	9
2,4-Dimethylphenol	ug/L (ppb)	10	76	76	45-100	0
Benzoic acid	ug/L (ppb)	65	19	23	10-46	19
Bis(2-chloroethoxy)methane	ug/L (ppb)	10	93	100	55-115	7
2,4-Dichlorophenol	ug/L (ppb)	10	97	105	55-113	8
1,2,4-Trichlorobenzene	ug/L (ppb)	10	84	85	50-109	1
Hexachlorobutadiene	ug/L (ppb)	10	81	82	50-109	1
4-Chloroaniline	ug/L (ppb)	20	93	91	30-109	2
4-Chloro-3-methylphenol	ug/L (ppb)	10	98	106	54-114	8
2-Methylnaphthalene	ug/L (ppb)	10	90	95	53-113	5
Hexachlorocyclopentadiene	ug/L (ppb)	10	64	69	26-94	8
2,4,6-Trichlorophenol	ug/L (ppb)	10	93	100	46-114	7
2,4,5-Trichlorophenol	ug/L (ppb)	10	99	106	57-122	7
2-Chloronaphthalene	ug/L (ppb)	10	84	91	52-112	8
2-Nitroaniline	ug/L (ppb)	10	106	111	47-128	5
Dimethyl phthalate	ug/L (ppb)	10	102	106	55-116	4
2,6-Dinitrotoluene	ug/L (ppb)	10	110	115	49-126	4
3-Nitroaniline	ug/L (ppb)	20	103	104	21-125	1
2,4-Dinitrophenol	ug/L (ppb)	10	98	109	29-130	11
Dibenzofuran	ug/L (ppb)	10	92	97	53-113	5
2,4-Dinitrotoluene	ug/L (ppb)	10	112	117	48-129	4
4-Nitrophenol	ug/L (ppb)	10	39	44	12-59	12
Diethyl phthalate	ug/L (ppb)	10	104	106	55-116	2
4-Chlorophenyl phenyl ether	ug/L (ppb)	10	93	97	52-115	4
N-Nitrosodiphenylamine	ug/L (ppb)	10	94	100	51-112	6
4-Nitroaniline	ug/L (ppb)	20	97	102	42-115	5
4,6-Dinitro-2-methylphenol	ug/L (ppb)	10	100	109	40-128	9
4-Bromophenyl phenyl ether	ug/L (ppb)	10	92	98	53-114	6
Hexachlorobenzene	ug/L (ppb)	10	91	95	54-115	4
Pentachlorophenol	ug/L (ppb)	10	95	106	49-114	11
Carbazole	ug/L (ppb)	10	97	102	54-115	5
Di-n-butyl phthalate	ug/L (ppb)	10	103	109	54-115	6
Benzyl butyl phthalate	ug/L (ppb)	10	110	117	53-122	6
Bis(2-ethylhexyl) phthalate	ug/L (ppb)	10	111	122	54-122	9
Di-n-octyl phthalate	ug/L (ppb)	10	112	122	50-131	9

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/06/13

Date Received: 10/02/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310050

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
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	ug/L (ppb)	1	81	85	67-116	5
Acenaphthylene	ug/L (ppb)	1	83	88	65-119	6
Acenaphthene	ug/L (ppb)	1	80	86	66-118	7
Fluorene	ug/L (ppb)	1	85	91	64-125	7
Phenanthrene	ug/L (ppb)	1	81	87	67-120	7
Anthracene	ug/L (ppb)	1	81	88	65-122	8
Fluoranthene	ug/L (ppb)	1	81	90	65-127	11
Pyrene	ug/L (ppb)	1	85	90	62-130	6
Benz(a)anthracene	ug/L (ppb)	1	79	86	60-118	8
Chrysene	ug/L (ppb)	1	83	91	66-125	9
Benzo(b)fluoranthene	ug/L (ppb)	1	77	93	55-135	19
Benzo(k)fluoranthene	ug/L (ppb)	1	81	88	62-125	8
Benzo(a)pyrene	ug/L (ppb)	1	78	87	58-127	11
Indeno(1,2,3-cd)pyrene	ug/L (ppb)	1	78	83	36-142	6
Dibenz(a,h)anthracene	ug/L (ppb)	1	71	80	37-133	12
Benzo(g,h,i)perylene	ug/L (ppb)	1	72	82	34-135	13

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/06/13

Date Received: 10/02/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310050

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Aroclor 1016	ug/L (ppb)	0.63	96	112	70-130	15
Aroclor 1260	ug/L (ppb)	0.63	92	100	70-130	8

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/06/13

Date Received: 10/02/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310050

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

Laboratory Code: 310050-01 1/10 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Beryllium	ug/L (ppb)	5	<0.980	144	155 vo	67-145	7
Chromium	ug/L (ppb)	20	<1.38	104	106	64-132	2
Nickel	ug/L (ppb)	20	7.90	90 b	92 b	61-128	2 b
Copper	ug/L (ppb)	20	4.20	83 b	86 b	63-124	4 b
Zinc	ug/L (ppb)	50	<6.00	81	82	55-141	1
Arsenic	ug/L (ppb)	10	41.0	121 b	119 b	60-150	2 b
Selenium	ug/L (ppb)	5	130	150 b	181 b	43-178	19 b
Silver	ug/L (ppb)	5	<0.640	69 vo	70 vo	71-115	1
Cadmium	ug/L (ppb)	5	<0.940	100	76 vo	83-116	27 vo
Antimony	ug/L (ppb)	20	<0.520	97	99	62-125	2
Barium	ug/L (ppb)	50	256	103 b	113 b	79-126	9 b
Thallium	ug/L (ppb)	5	<0.740	76	79	73-119	4
Lead	ug/L (ppb)	10	<1.44	79	81	79-121	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Beryllium	ug/L (ppb)	5	104	73-135
Chromium	ug/L (ppb)	20	92	80-119
Nickel	ug/L (ppb)	20	93	79-122
Copper	ug/L (ppb)	20	119	81-119
Zinc	ug/L (ppb)	50	93	76-124
Arsenic	ug/L (ppb)	10	86	80-111
Selenium	ug/L (ppb)	5	92	81-119
Silver	ug/L (ppb)	5	84	80-116
Cadmium	ug/L (ppb)	5	96	83-113
Antimony	ug/L (ppb)	20	81	79-108
Barium	ug/L (ppb)	50	98	83-117
Thallium	ug/L (ppb)	5	102	78-116
Lead	ug/L (ppb)	10	98	83-115

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/06/13

Date Received: 10/02/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310050

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR DISSOLVED METALS USING EPA METHOD 200.8**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Beryllium	ug/L (ppb)	5	111	110	73-135	1
Chromium	ug/L (ppb)	20	105	105	80-119	0
Nickel	ug/L (ppb)	20	103	102	79-122	1
Zinc	ug/L (ppb)	50	99	99	76-124	0
Silver	ug/L (ppb)	5	82	82	80-116	0
Cadmium	ug/L (ppb)	5	98	98	83-113	0
Antimony	ug/L (ppb)	20	91	93	79-108	2
Barium	ug/L (ppb)	50	100	98	83-117	2
Thallium	ug/L (ppb)	5	99	97	78-116	2
Lead	ug/L (ppb)	10	98	96	83-115	2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/06/13

Date Received: 10/02/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310050

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

Laboratory Code: 310050-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Mercury	ug/L (ppb)	0.01	<0.0015	96	94	63-132	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Mercury	ug/L (ppb)	0.01	104	78-118

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/06/13

Date Received: 10/02/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310050

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES FOR
DISSOLVED MERCURY
USING EPA METHOD 1631E**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Mercury	ug/L (ppb)	0.01	97	98	78-118	1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/06/13

Date Received: 10/02/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310050

**QUALITY ASSURANCE RESULTS
FROM THE ANALYSIS OF WATER SAMPLES FOR
TOTAL SUSPENDED SOLIDS
BY METHOD 2540D**

Laboratory Code: 310050-08 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
TSS	mg/L	<9.7	<9.7	nm	0-20

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
TSS	mg/L	50	116	61-131

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.



OCT 22 2013

October 18, 2013

Michele Costales Poquiz
Friedman & Bruya
3012 16th Ave W
Seattle, WA 98119

RE: Project: 310050
ARI Job No.: XI09

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 eight water samples on October 3, 2013 under ARI job XI09. For further details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

The samples were analyzed for chloride and TDS, as requested on the COC.

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.

A handwritten signature in black ink, appearing to read "Cheronne Oreiro", written over a horizontal line.

Cheronne Oreiro
Project Manager
(206) 695-6214
cheronneo@arilabs.com
www.arilabs.com

cc: eFile XI09

Enclosures

SAMPLE CHAIN OF CUSTODY

Page # _____ of _____

TURNAROUND TIME
 Standard Turnaround
 RUSH
 Rush charges authorized by: _____

SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 Will call with instructions
 Samples Received at _____ °C

SUBCONTRACTOR
 Analytical Resources, Inc. (ARI)
 PROJECT NAME/NO.
 310050
 PO #
 C-570

REMARKS
 Please e-mail results
 ELECTRONIC DATA REQUESTED (EIM)

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 mipoquiz@friedmanandbruya.com

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED								Notes			
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Hexavalent Cr by 7196A	Total Organic Carbon by 9060M		TDS by 2540C	Chloride by SM4500	
EMW-16D-100213		10/24/13	1102	water	2								X				
EMW-6S-100213			1302										X				
EMW-7S-100213			1500										X				
CMW-1-100213			1059										X				
SLR-2-100213			1329										X				
DMW-6-100213			1229										X				
CMW-7-100213			1038										X				
EMW-5S-100213			1439										X				

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

Relinquished by: Michele Costales Poquiz
 Received by: A. Volgardson

Relinquished by: _____
 Received by: _____

SIGNATURE: _____
 PRINT NAME: Michele Costales Poquiz
 COMPANY: F&B
 DATE: 10/21/13
 TIME: 5:29 PM

Relinquished by: _____
 Received by: _____

SIGNATURE: _____
 PRINT NAME: A. Volgardson
 COMPANY: ARI
 DATE: 10/31/13
 TIME: 1010

X109:00002



Cooler Receipt Form

ARI Client: Friedman + Bruya
 COC No(s): _____ (NA)
 Assigned ARI Job No: 2709

Project Name: _____
 Delivered by: Fed-Ex UPS Courier Hand Delivered Other: Postal Express
 Tracking No: 4512189 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) 0.8
 Time: 1010
 If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 90877952

Cooler Accepted by: A Date: 10/3/13 Time: 1010

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: JJ Date: 10-3-13 Time: 1100

**** 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" (< 2 mm)
			Peabubbles → "pb" (2 to < 4 mm)
			Large → "lg" (4 to < 6 mm)
			Headspace → "hs" (> 6 mm)

Sample ID Cross Reference Report



ARI Job No: XI09
Client: Friedman & Bruya
Project Event: 310050
Project Name: N/A

Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1. EMW-16D-100213	XI09A	13-21335	Water	10/02/13 11:02	10/03/13 10:10
2. EMW-6S-100213	XI09B	13-21336	Water	10/02/13 13:02	10/03/13 10:10
3. EMW-7S-100213	XI09C	13-21337	Water	10/02/13 15:00	10/03/13 10:10
4. CMW-1-100213	XI09D	13-21338	Water	10/02/13 10:59	10/03/13 10:10
5. SLR-2-100213	XI09E	13-21339	Water	10/02/13 13:29	10/03/13 10:10
6. DMW-6-100213	XI09F	13-21340	Water	10/02/13 12:29	10/03/13 10:10
7. CMW-7-100213	XI09G	13-21341	Water	10/02/13 10:38	10/03/13 10:10
8. EMW-5S-100213	XI09H	13-21342	Water	10/02/13 14:39	10/03/13 10:10

SAMPLE RESULTS-CONVENTIONALS
XI09-Friedman & Bruya



Matrix: Water
Data Release Authorized:
Reported: 10/17/13

A handwritten signature in black ink, appearing to be 'J. Friedman', written over the 'Data Release Authorized' text.

Project: NA
Event: 310050
Date Sampled: 10/02/13
Date Received: 10/03/13

Client ID: EMW-16D-100213
ARI ID: 13-21335 XI09A

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/07/13 100713#1	SM2540C	mg/L	200	19,300
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	2,000	11,700

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XI09-Friedman & Bruya



Matrix: Water
Data Release Authorized:
Reported: 10/17/13

A handwritten signature in black ink, appearing to be 'J. Friedman', written over the 'Data Release Authorized' text.

Project: NA
Event: 310050
Date Sampled: 10/02/13
Date Received: 10/03/13

Client ID: EMW-6S-100213
ARI ID: 13-21336 XI09B

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/07/13 100713#1	SM2540C	mg/L	5.0	163
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	1.0	3.4

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XI09-Friedman & Bruya



Matrix: Water
Data Release Authorized:
Reported: 10/17/13

A handwritten signature in black ink, appearing to be 'J. Friedman', with a line extending from it towards the 'Data Release Authorized' text.

Project: NA
Event: 310050
Date Sampled: 10/02/13
Date Received: 10/03/13

Client ID: EMW-7S-100213
ARI ID: 13-21337 XI09C

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/07/13 100713#1	SM2540C	mg/L	5.0	219
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	1.0	5.9

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XI09-Friedman & Bruya



Matrix: Water
Data Release Authorized:
Reported: 10/17/13

A handwritten signature in black ink, appearing to be 'M. Friedman', written over the 'Data Release Authorized:' text.

Project: NA
Event: 310050
Date Sampled: 10/02/13
Date Received: 10/03/13

Client ID: CMW-1-100213
ARI ID: 13-21338 XI09D

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/07/13 100713#1	SM2540C	mg/L	200	15,400
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	1,000	9,130

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XI09-Friedman & Bruya



Matrix: Water
Data Release Authorized:
Reported: 10/17/13

A handwritten signature in black ink, appearing to be a stylized name, located to the right of the matrix information.

Project: NA
Event: 310050
Date Sampled: 10/02/13
Date Received: 10/03/13

Client ID: SLR-2-100213
ARI ID: 13-21339 XI09E

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/07/13 100713#1	SM2540C	mg/L	5.0	180
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	1.0	3.4

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XI09-Friedman & Bruya



Matrix: Water
Data Release Authorized:
Reported: 10/17/13

A handwritten signature in black ink, appearing to be 'J. Friedman', written over the 'Data Release Authorized' text.

Project: NA
Event: 310050
Date Sampled: 10/02/13
Date Received: 10/03/13

Client ID: DMW-6-100213
ARI ID: 13-21340 XI09F

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/07/13 100713#1	SM2540C	mg/L	5.0	197
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	5.0	9.1

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XI09-Friedman & Bruya



Matrix: Water
Data Release Authorized:
Reported: 10/17/13

A handwritten signature in black ink, appearing to be 'J. Friedman', written over the 'Data Release Authorized' text.

Project: NA
Event: 310050
Date Sampled: 10/02/13
Date Received: 10/03/13

Client ID: CMW-7-100213
ARI ID: 13-21341 XI09G

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/07/13 100713#1	SM2540C	mg/L	20.0	1,690
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	200	830

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XI09-Friedman & Bruya



Matrix: Water
Data Release Authorized:
Reported: 10/17/13

A handwritten signature in black ink, appearing to be 'J. B.', written over the 'Data Release Authorized:' text.

Project: NA
Event: 310050
Date Sampled: 10/02/13
Date Received: 10/03/13

Client ID: EMW-5S-100213
ARI ID: 13-21342 XI09H

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/07/13 100713#1	SM2540C	mg/L	10.0	339
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	2.0	13.2

RL Analytical reporting limit
U Undetected at reported detection limit

REPLICATE RESULTS-CONVENTIONALS
XI09-Friedman & Bruya



Matrix: Water
Data Release Authorized:
Reported: 10/17/13

A handwritten signature in black ink, appearing to be 'JF', is written over the 'Data Release Authorized:' text.

Project: NA
Event: 310050
Date Sampled: 10/02/13
Date Received: 10/03/13

Analyte	Method	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: XI09A Client ID: EMW-16D-100213						
Total Dissolved Solids	SM2540C	10/07/13	mg/L	19,300	20,600	6.5%
Chloride	SM4500-CLE	10/04/13	mg/L	11,700	11,800	0.9%

LAB CONTROL RESULTS-CONVENTIONALS
XI09-Friedman & Bruya



Matrix: Water
Data Release Authorized:
Reported: 10/17/13

A handwritten signature in black ink, appearing to be 'M. J.', written over the 'Data Release Authorized:' text.

Project: NA
Event: 310050
Date Sampled: NA
Date Received: NA

Analyte/Method	QC ID	Date	Units	LCS	Spike Added	Recovery
Total Dissolved Solids SM2540C	ICVL	10/07/13	mg/L	485	500	97.0%

METHOD BLANK RESULTS-CONVENTIONALS
XI09-Friedman & Bruya



Matrix: Water
Data Release Authorized
Reported: 10/17/13


A handwritten signature in black ink, appearing to be 'J. Friedman', written over the 'Data Release Authorized' text.

Project: NA
Event: 310050
Date Sampled: NA
Date Received: NA

Analyte	Method	Date	Units	Blank	ID
Total Dissolved Solids	SM2540C	10/07/13	mg/L	< 5.0 U	
Chloride	SM4500-CLE	10/04/13	mg/L	< 1.0 U	FB
FB	Filtration Blank				

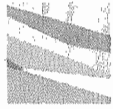
STANDARD REFERENCE RESULTS-CONVENTIONALS
XI09-Friedman & Bruya



Matrix: Water
Data Release Authorized: 
Reported: 10/17/13

Project: NA
Event: 310050
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Method	Date	Units	SRM	True Value	Recovery
Chloride ERA #411010	SM4500-CLE	10/04/13	mg/L	5.0	5.0	100.0%



November 5, 2013

Michele Poquiz
Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282

Project Name: 310050

Ms Poquiz,

Attached is the report associated with eight (8) aqueous samples submitted for dissolved arsenic, copper, and selenium analyses on October 16, 2013. All samples were received on the same day, October 16, 2013, in a sealed cooler at 4.2°C. Dissolved metals analyses were performed via inductively coupled plasma dynamic reaction cell mass spectrometry (ICP-DRC-MS). Any analytical issues associated with the analyses are addressed in the following report.

If you have any questions, please feel free to contact me at your convenience.

Sincerely,

A handwritten signature in black ink, appearing to read 'J. Maute', written over a white background.

Jeremy Maute
Project Coordinator
Applied Speciation and Consulting, LLC

Applied Speciation and Consulting, LLC

Report prepared for:

Michele Poquiz
Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029

Project Name: 310050

November 5, 2013

1. Sample Reception

Eight (8) aqueous samples were submitted for dissolved arsenic, copper, and selenium analyses on October 16, 2013. All samples were received in acceptable condition on the same day, October 16, 2013, in a sealed container at 4.2°C.

The samples submitted for dissolved metals analyses were filtered and preserved prior to reception at Applied Speciation and Consulting. The pH values of the samples were checked upon sample reception to confirm the adequacy of sample preservation.

The samples were received in a laminar flow clean hood void of trace metals contamination and ultra-violet radiation. The samples were stored in a secure enclosed container, known to be free from trace metals contamination, until the digestion and analysis could be performed.

2. Sample Preparation

All sample preparation is performed in laminar flow clean hoods known to be free from trace metals contamination. All applied water for dilutions and sample preservatives are monitored for contamination to account for any biases associated with the sample results.

Dissolved As, Cu, and Se Analysis by ICP-DRC-MS The samples submitted for dissolved metals analyses were filtered and preserved prior to reception at Applied Speciation and Consulting. All preserved samples were digested in accordance with EPA Method 200.8 on October 18, 2013. All sample digests were then analyzed via inductively coupled plasma dynamic reaction cell mass spectrometry (ICP-DRC-MS).

3. Sample Analysis

All sample analysis is precluded by a minimum of a five-point calibration curve spanning the entire concentration range of interest. Calibration curves are performed at the beginning of each analytical day. All calibration curves, associated with each species of interest, are standardized by linear regression resulting in a response factor. All sample results are **instrument blank corrected** to account for any operational biases associated with the analytical platform.

Prior to sample analysis, all calibration curves are verified using second source standards which are identified as initial calibration verification standards (ICV).

Ongoing instrument performance is identified by the analysis of continuing calibration verification standards (CCV) and continuing calibration blanks (CCB) at a minimum interval of every ten analytical runs.

Dissolved As, Cu, and Se Analysis by ICP-DRC-MS All sample digests for dissolved arsenic, copper, and selenium analysis were analyzed by inductively coupled plasma dynamic reaction cell mass spectrometry (ICP-DRC-MS) on November 1, 2013. Aliquots of each sample are introduced into a radio frequency (RF) plasma where energy-transfer processes cause desolvation, atomization, and ionization. The ions are extracted from the plasma through a differentially-pumped vacuum interface and travel through a pressurized chamber (DRC) containing a specific reactive gas which preferentially reacts with interfering ions of the same target mass to charge ratios (m/z). A solid-state detector detects ions transmitted through the mass analyzer, on the basis of their mass-to-charge ratio (m/z), and the resulting current is processed by a data handling system.

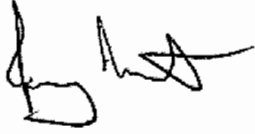
4. Analytical Issues

The overall analyses went well and no significant analytical issues were encountered. All quality control parameters associated with these samples were within acceptance limits.

The estimated method detection limits (eMDL) for dissolved metals have been calculated using the standard deviation of the preparation blanks preserved and analyzed concurrently with the submitted samples.

If you have any questions or concerns regarding this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'J. Maute', written in a cursive style.

Jeremy Maute
Project Coordinator
Applied Speciation and Consulting, LLC

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Received: 10/16/2013

Date Sampled: 10/2/2013

Client Sample ID
EMW-16D-100213
Laboratory Sample ID
EMW-16D-10213

Analyte	Method	Batch ID	Dilution	eMDL	Reporting	
					Limit	Concentration
Diss As	EPA 200.8	TM2	5	0.010	0.20	1.56
Diss Cu	EPA 200.8	TM2	5	0.18	0.20	1.53
Diss Se	EPA 200.8	TM2	5	0.072	0.20	0.154 J

All results are reported in µg/L and reflect the applied dilution

U = Sample concentration is below the eMDL

J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Received: 10/16/2013

Date Sampled: 10/2/2013

Client Sample ID
EMW-6S-100213
Laboratory Sample ID
EMW-6S-10213

Analyte	Method	Batch ID	Dilution	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	TM2	5	0.010	0.20	0.651
Diss Cu	EPA 200.8	TM2	5	0.18	0.20	0.83
Diss Se	EPA 200.8	TM2	5	0.072	0.20	< 0.072 U

All results are reported in µg/L and reflect the applied dilution

U = Sample concentration is below the eMDL

J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Received: 10/16/2013

Date Sampled: 10/2/2013

Client Sample ID
EMW-7S-100213
Laboratory Sample ID
EMW-7S-10213

Analyte	Method	Batch ID	Dilution	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	TM2	5	0.010	0.20	1.97
Diss Cu	EPA 200.8	TM2	5	0.18	0.20	0.18 J
Diss Se	EPA 200.8	TM2	5	0.072	0.20	0.078 J

All results are reported in µg/L and reflect the applied dilution

U = Sample concentration is below the eMDL

J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Received: 10/16/2013

Date Sampled: 10/2/2013

Client Sample ID
CMW-1-100213
Laboratory Sample ID
CMW-1-100213

Analyte	Method	Batch ID	Dilution	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	TM2	5	0.010	0.20	1.19
Diss Cu	EPA 200.8	TM2	5	0.18	0.20	1.47
Diss Se	EPA 200.8	TM2	5	0.072	0.20	< 0.072 U

All results are reported in µg/L and reflect the applied dilution

U = Sample concentration is below the eMDL

J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Received: 10/16/2013

Date Sampled: 10/2/2013

Client Sample ID
SLR-2-100213
Laboratory Sample ID
SLR-2-100213

Analyte	Method	Batch ID	Dilution	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	TM2	5	0.010	0.20	0.477
Diss Cu	EPA 200.8	TM2	5	0.18	0.20	2.36
Diss Se	EPA 200.8	TM2	5	0.072	0.20	0.081 J

All results are reported in µg/L and reflect the applied dilution

U = Sample concentration is below the eMDL

J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Received: 10/16/2013

Date Sampled: 10/2/2013

Client Sample ID
DMW-6-100213

Laboratory Sample ID
DMW-6-100213

Analyte	Method	Batch ID	Dilution	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	TM2	5	0.010	0.20	59.4
Diss Cu	EPA 200.8	TM2	5	0.18	0.20	0.48
Diss Se	EPA 200.8	TM2	5	0.072	0.20	0.179 J

All results are reported in µg/L and reflect the applied dilution

U = Sample concentration is below the eMDL

J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Sampled: 10/2/2013

Date Received: 10/16/2013

Client Sample ID
CMW-7-100213

Laboratory Sample ID
CMW-7-100213

Analyte	Method	Batch ID	Dilution	eMDL	Reporting	
					Limit	Concentration
Diss As	EPA 200.8	TM2	5	0.010	0.20	0.714
Diss Cu	EPA 200.8	TM2	5	0.18	0.20	2.77
Diss Se	EPA 200.8	TM2	5	0.072	0.20	0.442

All results are reported in µg/L and reflect the applied dilution

U = Sample concentration is below the eMDL

J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Received: 10/16/2013

Date Sampled: 10/2/2013

Client Sample ID
EMW-5S-100213

Laboratory Sample ID
EMW-5S-100213

Analyte	Method	Batch ID	Dilution	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	TM2	5	0.010	0.20	2.05
Diss Cu	EPA 200.8	TM2	5	0.18	0.20	0.65
Diss Se	EPA 200.8	TM2	5	0.072	0.20	< 0.072 U

All results are reported in µg/L and reflect the applied dilution

U = Sample concentration is below the eMDL

J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
 Contact: Michele Poquiz

Date: November 5, 2013
 Report Generated by: Jeremy Maute
 Applied Speciation and Consulting, LLC

Quality Control Summary - Preparation Blank Summary

Analyte (µg/L)	Batch ID	PBW-1	PBW-2	PBW-3	PBW-4	Mean	StdDev	eMDL*	eMDL 5x	Sample RL
Diss As	TM2	0.013	0.012	0.011	0.005	0.010	0.003	0.002	0.010	0.20
Diss Cu	TM2	0.02	0.12	0.00	-0.02	0.03	0.06	0.04	0.18	0.20
Diss Se	TM2	-0.058	-0.042	-0.025	-0.002	-0.032	0.024	0.014	0.072	0.20

eMDL = Estimated Method Detection Limit

* Please see narrative regarding eMDL calculations

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Quality Control Summary - Certified Reference Material

Analyte (µg/L)	Batch ID	LCS	True Value	Result	Recovery
Total As	TM2	LCS	400.0	370.3	92.6
Total As	TM2	TMDA-70	40.7	38.7	95.0
Total Cu	TM2	LCS	400.0	395.4	98.9
Total Cu	TM2	TMDA-70	399	388	97.3
Total Se	TM2	LCS	400.0	375.7	93.9
Total Se	TM2	TMDA-70	25.9	23.6	91.0

Trace Element Results for Friedman and Bruya
 Contact: Michele Poquiz

Date: November 5, 2013
 Report Generated by: Jeremy Maute
 Applied Speciation and Consulting, LLC

Quality Control Summary - Matrix Duplicates

Analyte (µg/L)	Sample ID	Batch ID	Rep 1	Rep 2	Mean	RPD
Diss As	Batch QC	TM2	5.444	5.524	5.484	1.5
Diss Cu	Batch QC	TM2	0.33	0.29	0.31	12.4
Diss Se	Batch QC	TM2	< 0.072 U	< 0.072 U	NC	NC

NC = Not calculated due to one or more values below the eMDL

U = Sample concentration is below the eMDL

J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
 Contact: Michele Poquiz

Date: November 5, 2013
 Report Generated by: Jeremy Maute
 Applied Speciation and Consulting, LLC

Quality Control Summary - Matrix Spike/ Matrix Spike Duplicate

Analyte (µg/L)	Sample ID	Batch ID	Spike		MS Result	Recovery	Spike Conc	MSD Result	Recovery	RPD
			Conc	Conc						
Diss As	Batch QC	TM2	400.0	400.0	375.7	92.6	400.0	431.3	106.4	13.8
Diss Cu	Batch QC	TM2	400.0	400.0	353.3	88.2	400.0	410.6	102.6	15.0
Diss Se	Batch QC	TM2	400.0	400.0	371.4	92.8	400.0	424.3	106.1	13.3

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

November 6, 2013

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

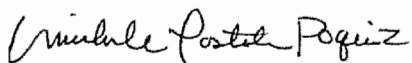
Dear Mr. Staton:

Included are the results from the testing of material submitted on October 3, 2013 from the 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310077 project. There are 73 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
Chemist

Enclosures
SLR1106R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 3, 2013 by Friedman & Bruya, Inc. from the SLR International Corp. 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310077 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
310077-01	EMW-8S-100313
310077-02	CMW-4-100313
310077-03	EMW-57S-100313
310077-04	EMW-2S-100313
310077-05	SLR-1-100313
310077-06	EMW-12S-100313
310077-07	SLR-3-100313
310077-08	TB-100313

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.

Volatile Compounds by EPA Method 8260C

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 bromomethane. This analyte was not identified in the samples, therefore the results are valid.

Semivolatile Organic Compounds by EPA Method 8270D

The presence of bis(2-ethylhexyl) phthalate in the samples CMW-4-100313, EMW-57S-100313, EMW-2S-100313, SLR-1-100313, EMW-12S-100313, SLR-3-100313 and the method blank is likely due to laboratory contamination. The results have been flagged accordingly.

The calibration result for bis(2-ethylhexyl) phthalate fell outside of acceptance criteria for the samples CMW-4-100313. The value reported is an estimate.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Semivolatile Organic Compounds by EPA Method 8270D SIM

Compounds in the sample matrix interfered with the quantitation of a surrogate for the samples EMW-57S-100313, EMW-2S-100313, SLR-1-100313, and EMW-12S-100313. The results have been flagged accordingly.

A surrogate recovery failed high for the method blank. The method blank was non-detect, therefore the results are valid.

Polychlorinated Biphenyls as Aroclor 1016/1260 by EPA Method 8082A

All quality control requirements were acceptable.

Total Metals by EPA Method 200.8

Compounds in the sample matrix interfered with the quantitation of arsenic and selenium. The results have been flagged accordingly.

The reporting limit for arsenic was raised due to potential low level laboratory contamination.

The internal standard associated with several analytes exceeded acceptance criteria for the sample CMW-4-100313. The sample was diluted and reanalyzed. The results for the full strength and the dilution analyses are included.

The percent recovery for the MS and/or MSD exceeded acceptance criteria for beryllium, silver and cadmium. In addition, the RPD for the MS/MSD exceeded acceptance criteria for cadmium. The results have been flagged accordingly.

Dissolved Metals by EPA Method 200.8

Arsenic, selenium and copper were not reported. Please see the report issued by Applied Speciation and Consulting (ASC) for results for these analytes.

The internal standard associated with several analytes exceeded acceptance criteria for the sample CMW-4-100313. The sample was diluted and reanalyzed. The results for the full strength and the dilution analyses are included.

Total Mercury by EPA Method 1631E

The reporting limit was raised due to potential low level laboratory contamination.

Dissolved Mercury by EPA Method 1631E

The reporting limit was raised due to potential low level laboratory contamination.

Total Suspended Solids by Method 2540D

All quality control requirements were acceptable.

Total Dissolved Solids by Method 2540C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

The samples were sent to Analytical Resources, Inc. (ARI) for analysis. The report generated by ARI is enclosed.

Chloride by Method SM4500

The samples were sent to ARI for analysis. The report generated by ARI is enclosed.

Dissolved Metals by ICP-DRC-MS

The samples were sent to Applied Speciation and Consulting (ASC) for analysis. The report generated by ASC is enclosed.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/06/13

Date Received: 10/03/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310077

Date Extracted: 10/08/13

Date Analyzed: 10/08/13

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

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	Surrogate (% Recovery) (Limit 51-134)
EMW-8S-100313 310077-01	<12	76
CMW-4-100313 310077-02	<12	77
EMW-57S-100313 310077-03	110	75
EMW-2S-100313 310077-04	110	79
SLR-1-100313 310077-05	<12	75
EMW-12S-100313 310077-06	15	74
SLR-3-100313 310077-07	<12	89
Method Blank 03-1962 MB	<12	77

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/06/13

Date Received: 10/03/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310077

Date Extracted: 10/07/13

Date Analyzed: 10/11/13

**RESULTS FROM THE ANALYSIS OF WATER 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 as ug/L (ppb)**

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> (% Recovery) (Limit 51-134)
EMW-8S-100313 310077-01	<6.9	<52	96
CMW-4-100313 310077-02	<6.9	<52	101
EMW-57S-100313 310077-03	<6.9	<52	92
EMW-2S-100313 310077-04	<6.9	<52	95
SLR-1-100313 310077-05	<6.9	<52	105
EMW-12S-100313 310077-06	<6.9	<52	60
SLR-3-100313 310077-07	<6.9	<52	74
Method Blank 03-2026 MB	<6.9	<52	94

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-8S-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/09/13	Lab ID:	310077-01
Date Analyzed:	10/09/13	Data File:	100909.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	102	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 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
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:	CMW-4-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/09/13	Lab ID:	310077-02
Date Analyzed:	10/09/13	Data File:	100910.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	102	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 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
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:	EMW-57S-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/09/13	Lab ID:	310077-03
Date Analyzed:	10/09/13	Data File:	100911.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	103	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	1.5	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	1.1	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	0.45	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 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
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:	EMW-2S-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/09/13	Lab ID:	310077-04
Date Analyzed:	10/09/13	Data File:	100912.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	50	150
Toluene-d8	102	50	150
4-Bromofluorobenzene	103	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	1.5	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	1.0	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	0.42	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 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
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:	SLR-1-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/09/13	Lab ID:	310077-05
Date Analyzed:	10/09/13	Data File:	100913.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	102	50	150
4-Bromofluorobenzene	103	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 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
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:	EMW-12S-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/09/13	Lab ID:	310077-06
Date Analyzed:	10/09/13	Data File:	100914.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	103	50	150
4-Bromofluorobenzene	104	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	0.58
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	2.5
Methylene chloride	<3	o-Xylene	1.3
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	0.45
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 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
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:	SLR-3-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/09/13	Lab ID:	310077-07
Date Analyzed:	10/09/13	Data File:	100915.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	101	50	150
4-Bromofluorobenzene	103	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 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
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:	TB-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/09/13	Lab ID:	310077-08
Date Analyzed:	10/09/13	Data File:	100916.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	100	50	150
4-Bromofluorobenzene	101	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 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
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 101.00205.00030
Date Extracted:	10/09/13	Lab ID:	03-1998 mb
Date Analyzed:	10/09/13	Data File:	100908.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	102	50	150
4-Bromofluorobenzene	103	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 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
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 Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-8S-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310077-01
Date Analyzed:	10/08/13	Data File:	100820.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	41	32	162
Phenol-d6	25	10	170
Nitrobenzene-d5	85	50	150
2-Fluorobiphenyl	87	43	158
2,4,6-Tribromophenol	115	43	146
Terphenyl-d14	119	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	0.065
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.18
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	CMW-4-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310077-02
Date Analyzed:	10/08/13	Data File:	100821.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	56	32	162
Phenol-d6	33	10	170
Nitrobenzene-d5	90	50	150
2-Fluorobiphenyl	91	43	158
2,4,6-Tribromophenol	110	43	146
Terphenyl-d14	116	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.31 fb ca
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID: EMW-57S-100313	Client: SLR International Corp.
Date Received: 10/03/13	Project: Crowley 101.00205.00030
Date Extracted: 10/07/13	Lab ID: 310077-03
Date Analyzed: 10/09/13	Data File: 100908.D
Matrix: Water	Instrument: GCMS8
Units: ug/L (ppb)	Operator: VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	52	32	162
Phenol-d6	32	10	170
Nitrobenzene-d5	102	50	150
2-Fluorobiphenyl	103	43	158
2,4,6-Tribromophenol	144	43	146
Terphenyl-d14	137	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	0.025	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.24 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-2S-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310077-04
Date Analyzed:	10/09/13	Data File:	100904.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	56	32	162
Phenol-d6	35	10	170
Nitrobenzene-d5	101	50	150
2-Fluorobiphenyl	102	43	158
2,4,6-Tribromophenol	130	43	146
Terphenyl-d14	128	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	0.027	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.18 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	SLR-1-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310077-05
Date Analyzed:	10/09/13	Data File:	100913.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	57	32	162
Phenol-d6	37	10	170
Nitrobenzene-d5	103	50	150
2-Fluorobiphenyl	98	43	158
2,4,6-Tribromophenol	134	43	146
Terphenyl-d14	119	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	0.23	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.30 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-12S-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310077-06
Date Analyzed:	10/09/13	Data File:	100906.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	52	32	162
Phenol-d6	33	10	170
Nitrobenzene-d5	95	50	150
2-Fluorobiphenyl	99	43	158
2,4,6-Tribromophenol	133	43	146
Terphenyl-d14	133	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.24 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	SLR-3-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310077-07
Date Analyzed:	10/09/13	Data File:	100907.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	58	32	162
Phenol-d6	39	10	170
Nitrobenzene-d5	89	50	150
2-Fluorobiphenyl	71	43	158
2,4,6-Tribromophenol	97	43	146
Terphenyl-d14	66	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	0.065
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	1.0 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

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 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	03-1985 mb
Date Analyzed:	10/09/13	Data File:	100909.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	49	32	162
Phenol-d6	30	10	170
Nitrobenzene-d5	97	50	150
2-Fluorobiphenyl	96	43	158
2,4,6-Tribromophenol	113	43	146
Terphenyl-d14	120	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.22 lc
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-8S-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310077-01
Date Analyzed:	10/08/13	Data File:	100820.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	118	50	150
Benzo(a)anthracene-d12	128	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.004
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	0.017
Phenanthrene	<0.0066
Anthracene	0.020
Fluoranthene	0.031
Pyrene	0.036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	CMW-4-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310077-02
Date Analyzed:	10/08/13	Data File:	100821.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	112	50	150
Benzo(a)anthracene-d12	116	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.050
Acenaphthylene	<0.0024
Acenaphthene	0.013
Fluorene	0.0071
Phenanthrene	0.027
Anthracene	0.0094
Fluoranthene	0.012
Pyrene	0.011
Benz(a)anthracene	0.0067
Chrysene	0.0055
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	0.0070
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-57S-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310077-03
Date Analyzed:	10/09/13	Data File:	100907.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	121	50	150
Benzo(a)anthracene-d12	138 ip	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.004
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	0.0033
Fluoranthene	<0.0046
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-2S-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310077-04
Date Analyzed:	10/09/13	Data File:	100908.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	129	50	150
Benzo(a)anthracene-d12	146 ip	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.004
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	0.0033
Fluoranthene	<0.0046
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	SLR-1-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310077-05
Date Analyzed:	10/09/13	Data File:	100909.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

	% Recovery:	Lower Limit:	Upper Limit:
Surrogates:			
Anthracene-d10	121	50	150
Benzo(a)anthracene-d12	135 ip	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.0044
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	0.0048
Fluoranthene	<0.0046
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-12S-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310077-06
Date Analyzed:	10/09/13	Data File:	100910.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	122	50	150
Benzo(a)anthracene-d12	133 ip	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.004
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	<0.0028
Fluoranthene	<0.0046
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	SLR-3-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310077-07
Date Analyzed:	10/09/13	Data File:	100911.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	87	50	150
Benzo(a)anthracene-d12	90	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.017
Acenaphthylene	<0.0024
Acenaphthene	0.013
Fluorene	0.018
Phenanthrene	0.022
Anthracene	0.0056
Fluoranthene	0.0092
Pyrene	0.013
Benz(a)anthracene	<0.0042
Chrysene	0.0079
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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:	10/07/13	Lab ID:	03-1984 mb
Date Analyzed:	10/08/13	Data File:	100811.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	119	50	150
Benzo(a)anthracene-d12	131 vo	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.004
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	<0.0028
Fluoranthene	<0.0046
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EMW-8S-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/08/13	Lab ID:	310077-01 1/0.25
Date Analyzed:	10/17/13	Data File:	101642.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	MCP

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

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	CMW-4-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/08/13	Lab ID:	310077-02 1/0.25
Date Analyzed:	10/17/13	Data File:	101644.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	MCP

Surrogates:	% Recovery:	Lower	Upper
TCMX	87	Limit:	Limit:
		50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EMW-57S-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/08/13	Lab ID:	310077-03 1/0.25
Date Analyzed:	10/17/13	Data File:	101646.D\ECED1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	MCP

Surrogates:	% Recovery:	Lower	Upper
TCMX	95	Limit:	Limit:
		50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EMW-2S-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/08/13	Lab ID:	310077-04 1/0.25
Date Analyzed:	10/17/13	Data File:	101648.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	MCP

Surrogates:	% Recovery:	Lower	Upper
TCMX	97	Limit:	Limit:
		50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	SLR-1-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/08/13	Lab ID:	310077-05 1/0.25
Date Analyzed:	10/17/13	Data File:	101650.D\NECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	MCP

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

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EMW-12S-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/08/13	Lab ID:	310077-06 1/0.25
Date Analyzed:	10/17/13	Data File:	101656.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	MCP

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

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	SLR-3-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/08/13	Lab ID:	310077-07 1/0.25
Date Analyzed:	10/17/13	Data File:	101658.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	MCP

Surrogates:	% Recovery:	Lower	Upper
TCMX	57	Limit:	Limit:
		50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley 101.00205.00030
Date Extracted:	10/08/13	Lab ID:	03-2028 mb 1/0.25
Date Analyzed:	10/16/13	Data File:	12.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	MCP

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

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-8S-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/15/13	Lab ID:	310077-01
Date Analyzed:	10/28/13	Data File:	310077-01.063
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	83	60	125
Indium	74	60	125
Holmium	71	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	2.00
Nickel	1.36
Copper	0.472
Zinc	1.85
Arsenic	36.5 ip
Selenium	0.836 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.173
Barium	39.5
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	CMW-4-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/15/13	Lab ID:	310077-02
Date Analyzed:	10/28/13	Data File:	310077-02.064
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	55 vo	60	125
Indium	48 vo	60	125
Holmium	53 vo	60	125

Analyte:	Concentration ug/L (ppb)
Cadmium	<0.0940 J
Thallium	<0.0740 J
Lead	0.252 J

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	CMW-4-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/15/13	Lab ID:	310077-02 x10
Date Analyzed:	10/28/13	Data File:	310077-02 x10.066
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	77	60	125
Indium	78	60	125
Holmium	75	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	1.78
Nickel	9.15
Copper	7.27
Zinc	11.7
Arsenic	225 ip
Selenium	89.8 ip
Silver	<0.640
Cadmium	<0.940
Antimony	25.5
Barium	381
Thallium	<0.740
Lead	<1.44

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-57S-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/15/13	Lab ID:	310077-03
Date Analyzed:	10/28/13	Data File:	310077-03.055
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	87	60	125
Indium	79	60	125
Holmium	75	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.962
Nickel	2.68
Copper	1.55
Zinc	1.66
Arsenic	1.69 ip
Selenium	0.857 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<0.0520
Barium	7.32
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-2S-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/15/13	Lab ID:	310077-04
Date Analyzed:	10/28/13	Data File:	310077-04.056
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	86	60	125
Indium	78	60	125
Holmium	75	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.883
Nickel	0.734
Copper	0.403
Zinc	<0.600
Arsenic	2.03 ip
Selenium	0.810 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<0.0520
Barium	7.44
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	SLR-1-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/15/13	Lab ID:	310077-05
Date Analyzed:	10/28/13	Data File:	310077-05.057
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	94	60	125
Indium	77	60	125
Holmium	76	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.91
Nickel	1.36
Copper	0.598
Zinc	<0.600
Arsenic	3.16 ip
Selenium	0.834 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.137
Barium	23.4
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-12S-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/15/13	Lab ID:	310077-06
Date Analyzed:	10/28/13	Data File:	310077-06.059
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	81	60	125
Indium	78	60	125
Holmium	76	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.182
Nickel	2.77
Copper	1.60
Zinc	0.915
Arsenic	1.10 ip
Selenium	0.891 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.531
Barium	9.61
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	SLR-3-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/15/13	Lab ID:	310077-07
Date Analyzed:	10/28/13	Data File:	310077-07.062
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	118	60	125
Indium	75	60	125
Holmium	79	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	0.195
Chromium	27.6
Nickel	3.60
Copper	3.68
Zinc	3.89
Arsenic	29.4 ip
Selenium	6.47 ip
Silver	0.348
Cadmium	2.48
Antimony	0.739
Barium	104
Thallium	<0.0740
Lead	0.645

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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:	10/15/13	Lab ID:	I3-683 mb
Date Analyzed:	10/25/13	Data File:	I3-683 mb.043
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	83	60	125
Indium	86	60	125
Holmium	89	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	<0.138
Nickel	<0.460
Copper	<0.340
Zinc	<0.600
Arsenic	<1.00
Selenium	<0.560
Silver	<0.0640
Cadmium	<0.0940
Antimony	<0.0520
Barium	<0.260
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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:	10/15/13	Lab ID:	I3-683 mb
Date Analyzed:	10/28/13	Data File:	I3-683 mb.013
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	101	60	125
Indium	98	60	125
Holmium	96	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	<0.138
Nickel	<0.460
Copper	<0.340
Zinc	<0.600
Arsenic	<1.00
Selenium	<0.560
Silver	<0.0640
Cadmium	<0.0940
Antimony	<0.0520
Barium	<0.260
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-8S-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/14/13	Lab ID:	310077-01
Date Analyzed:	10/14/13	Data File:	310077-01.080
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	81	60	125
Indium	84	60	125
Holmium	90	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	2.22
Nickel	1.54
Zinc	8.14
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.145
Barium	38.8
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	CMW-4-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/14/13	Lab ID:	310077-02
Date Analyzed:	10/14/13	Data File:	310077-02.083
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	54 vo	60	125
Indium	54 vo	60	125
Holmium	54 vo	60	125

Analyte:	Concentration ug/L (ppb)
Cadmium	<0.0940 J
Thallium	<0.0740 J
Lead	<0.144 J

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	CMW-4-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/14/13	Lab ID:	310077-02 x10
Date Analyzed:	10/14/13	Data File:	310077-02 x10.057
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	82	60	125
Indium	82	60	125
Holmium	85	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	2.14
Nickel	8.25
Zinc	19.3
Silver	<0.640
Cadmium	<0.940
Antimony	25.1
Barium	381
Thallium	<0.740
Lead	<1.44

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-57S-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/14/13	Lab ID:	310077-03
Date Analyzed:	10/14/13	Data File:	310077-03.075
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	89	60	125
Indium	93	60	125
Holmium	99	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.26
Nickel	0.765
Zinc	2.95
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.0700
Barium	7.24
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-2S-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/14/13	Lab ID:	310077-04
Date Analyzed:	10/14/13	Data File:	310077-04.076
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	86	60	125
Indium	88	60	125
Holmium	95	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.06
Nickel	0.717
Zinc	2.29
Silver	<0.0640
Cadmium	<0.0940
Antimony	<0.0520
Barium	7.38
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	SLR-1-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/14/13	Lab ID:	310077-05
Date Analyzed:	10/14/13	Data File:	310077-05.077
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	95	60	125
Indium	90	60	125
Holmium	97	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.92
Nickel	1.37
Zinc	1.27
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.112
Barium	23.0
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-12S-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/14/13	Lab ID:	310077-06
Date Analyzed:	10/14/13	Data File:	310077-06.078
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	81	60	125
Indium	88	60	125
Holmium	95	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.413
Nickel	2.87
Zinc	2.03
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.601
Barium	9.98
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	SLR-3-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/14/13	Lab ID:	310077-07
Date Analyzed:	10/14/13	Data File:	310077-07.079
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	116	60	125
Indium	83	60	125
Holmium	89	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	0.108
Chromium	27.0
Nickel	3.23
Zinc	4.86
Silver	0.347
Cadmium	2.19
Antimony	0.695
Barium	97.7
Thallium	<0.0740
Lead	0.559

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved 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:	10/14/13	Lab ID:	I3-677 mb
Date Analyzed:	10/14/13	Data File:	I3-677 mb.043
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	87	60	125
Indium	98	60	125
Holmium	108	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	<0.138
Nickel	<0.460
Zinc	<0.600
Silver	<0.0640
Cadmium	<0.0940
Antimony	<0.0520
Barium	<0.260
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/06/13

Date Received: 10/03/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310077

Date Extracted: 10/09/13

Date Analyzed: 10/10/13

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

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Total Mercury</u>
EMW-8S-100313 310077-01	<0.0015
CMW-4-100313 310077-02	0.0024
EMW-57S-100313 310077-03	<0.0015
EMW-2S-100313 310077-04	<0.0015
SLR-1-100313 310077-05	<0.0015
EMW-12S-100313 310077-06	<0.0015
SLR-3-100313 310077-07	0.0040
Method Blank	<0.0015

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/06/13

Date Received: 10/03/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310077

Date Extracted: 10/09/13

Date Analyzed: 10/10/13

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR DISSOLVED MERCURY
USING EPA METHOD 1631E**

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Dissolved Mercury</u>
EMW-8S-100313 310077-01	<0.0015
CMW-4-100313 310077-02	0.0022
EMW-57S-100313 310077-03	<0.0015
EMW-2S-100313 310077-04	<0.0015
SLR-1-100313 310077-05	<0.0015
EMW-12S-100313 310077-06	<0.0015
SLR-3-100313 310077-07	0.0037
Method Blank	<0.0015

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/06/13

Date Received: 10/03/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310077

Date Extracted: NA

Date Analyzed: 10/08/13

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL SUSPENDED SOLIDS
BY METHOD 2540D**

Results Reported as mg/L (ppm)

<u>Sample ID</u> Laboratory ID	Total Suspended <u>Solids</u>
EMW-8S-100313 310077-01	<9.7
CMW-4-100313 310077-02	13
EMW-57S-100313 310077-03	<9.7
EMW-2S-100313 310077-04	11
SLR-1-100313 310077-05	<9.7
EMW-12S-100313 310077-06	<9.7
SLR-3-100313 310077-07	<9.7
Method Blank	<9.7

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/06/13

Date Received: 10/03/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310077

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TPH AS GASOLINE
USING METHOD NWTPH-Gx**

Laboratory Code: 310050-07 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Gasoline	ug/L (ppb)	<12	<12	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	ug/L (ppb)	1,000	100	69-134

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/06/13

Date Received: 10/03/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310077

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

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	500	67	75	58-134	11

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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Date Received: 10/03/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310077

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

Laboratory Code: 310077-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Dichlorodifluoromethane	ug/L (ppb)	50	<0.16	102	55-144
Chloromethane	ug/L (ppb)	50	<0.22	101	67-131
Vinyl chloride	ug/L (ppb)	50	<0.13	100	61-139
Bromomethane	ug/L (ppb)	50	<0.2	222 vo	66-129
Chloroethane	ug/L (ppb)	50	<0.18	100	68-126
Trichlorofluoromethane	ug/L (ppb)	50	<0.17	103	71-128
Acetone	ug/L (ppb)	250	<2.6	84	48-149
1,1-Dichloroethene	ug/L (ppb)	50	<0.19	101	71-123
Methylene chloride	ug/L (ppb)	50	<3	109	61-126
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	<0.13	99	68-125
trans-1,2-Dichloroethene	ug/L (ppb)	50	<0.24	100	72-122
1,1-Dichloroethane	ug/L (ppb)	50	<0.18	102	79-113
2,2-Dichloropropane	ug/L (ppb)	50	<0.3	101	58-132
cis-1,2-Dichloroethene	ug/L (ppb)	50	<0.24	97	73-119
Chloroform	ug/L (ppb)	50	<0.24	101	80-112
2-Butanone (MEK)	ug/L (ppb)	250	<0.94	94	69-123
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<0.11	103	78-113
1,1,1-Trichloroethane	ug/L (ppb)	50	<0.2	103	79-116
1,1-Dichloropropene	ug/L (ppb)	50	<0.26	103	67-121
Carbon tetrachloride	ug/L (ppb)	50	<0.24	110	72-123
Benzene	ug/L (ppb)	50	<0.13	99	79-109
Trichloroethene	ug/L (ppb)	50	<0.17	98	75-109
1,2-Dichloropropane	ug/L (ppb)	50	<0.32	105	80-111
Bromodichloromethane	ug/L (ppb)	50	<0.38	109	78-117
Dibromomethane	ug/L (ppb)	50	<0.28	105	80-112
4-Methyl-2-pentanone	ug/L (ppb)	250	<1.3	117	79-123
cis-1,3-Dichloropropene	ug/L (ppb)	50	<0.2	112	76-120
Toluene	ug/L (ppb)	50	<0.13	99	73-117
trans-1,3-Dichloropropene	ug/L (ppb)	50	<0.34	114	75-122
1,1,2-Trichloroethane	ug/L (ppb)	50	<0.28	110	81-111
2-Hexanone	ug/L (ppb)	250	<1	109	75-126
1,3-Dichloropropane	ug/L (ppb)	50	<0.2	106	81-111
Tetrachloroethene	ug/L (ppb)	50	<0.28	104	72-113
Dibromochloromethane	ug/L (ppb)	50	<0.24	116	69-129
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	<0.24	108	83-114
Chlorobenzene	ug/L (ppb)	50	<0.1	99	75-115
Ethylbenzene	ug/L (ppb)	50	<0.16	103	71-120
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	<0.32	108	78-122
m,p-Xylene	ug/L (ppb)	100	<0.5	103	63-128
o-Xylene	ug/L (ppb)	50	<0.22	104	64-129
Styrene	ug/L (ppb)	50	<0.22	107	70-122
Isopropylbenzene	ug/L (ppb)	50	<0.15	103	76-118
Bromoform	ug/L (ppb)	50	<0.22	118	49-138
n-Propylbenzene	ug/L (ppb)	50	<0.14	105	74-117
Bromobenzene	ug/L (ppb)	50	<0.18	103	70-121
1,3,5-Trimethylbenzene	ug/L (ppb)	50	<0.18	105	81-112
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	<0.24	107	79-120
1,2,3-Trichloropropane	ug/L (ppb)	50	<0.28	103	72-119
2-Chlorotoluene	ug/L (ppb)	50	<0.13	103	77-114
4-Chlorotoluene	ug/L (ppb)	50	<0.16	102	81-109
tert-Butylbenzene	ug/L (ppb)	50	<0.15	106	81-116
1,2,4-Trimethylbenzene	ug/L (ppb)	50	<0.11	104	74-118
sec-Butylbenzene	ug/L (ppb)	50	<0.12	106	77-118
p-Isopropyltoluene	ug/L (ppb)	50	<0.15	103	64-132
1,3-Dichlorobenzene	ug/L (ppb)	50	<0.15	98	81-111
1,4-Dichlorobenzene	ug/L (ppb)	50	<0.094 j	94	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	108	69-129
1,2,4-Trichlorobenzene	ug/L (ppb)	50	<0.34	98	74-115
Hexachlorobutadiene	ug/L (ppb)	50	<0.46	94	67-120
Naphthalene	ug/L (ppb)	50	<0.28	105	63-136
1,2,3-Trichlorobenzene	ug/L (ppb)	50	<0.38	97	79-115

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/06/13

Date Received: 10/03/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310077

**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	93	93	54-149	0
Chloromethane	ug/L (ppb)	50	91	92	67-133	1
Vinyl chloride	ug/L (ppb)	50	90	91	73-132	1
Bromomethane	ug/L (ppb)	50	212 vo	227 vo	69-123	7
Chloroethane	ug/L (ppb)	50	90	94	68-126	4
Trichlorofluoromethane	ug/L (ppb)	50	93	94	70-132	1
Acetone	ug/L (ppb)	250	93	93	44-145	0
1,1-Dichloroethene	ug/L (ppb)	50	90	91	75-119	1
Methylene chloride	ug/L (ppb)	50	95	96	63-132	1
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	90	91	70-122	1
trans-1,2-Dichloroethene	ug/L (ppb)	50	89	89	76-118	0
1,1-Dichloroethane	ug/L (ppb)	50	92	92	80-116	0
2,2-Dichloropropane	ug/L (ppb)	50	96	98	62-141	2
cis-1,2-Dichloroethene	ug/L (ppb)	50	87	86	81-111	1
Chloroform	ug/L (ppb)	50	90	91	81-109	1
2-Butanone (MEK)	ug/L (ppb)	250	92	90	53-140	2
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	92	91	79-109	1
1,1,1-Trichloroethane	ug/L (ppb)	50	93	94	80-116	1
1,1-Dichloropropene	ug/L (ppb)	50	94	92	78-112	2
Carbon tetrachloride	ug/L (ppb)	50	100	100	72-128	0
Benzene	ug/L (ppb)	50	89	87	81-108	2
Trichloroethene	ug/L (ppb)	50	88	88	77-108	0
1,2-Dichloropropane	ug/L (ppb)	50	93	92	82-109	1
Bromodichloromethane	ug/L (ppb)	50	98	96	76-120	2
Dibromomethane	ug/L (ppb)	50	92	91	80-110	1
4-Methyl-2-pentanone	ug/L (ppb)	250	106	102	59-142	4
cis-1,3-Dichloropropene	ug/L (ppb)	50	104	101	76-128	3
Toluene	ug/L (ppb)	50	87	88	83-108	1
trans-1,3-Dichloropropene	ug/L (ppb)	50	106	103	76-128	3
1,1,2-Trichloroethane	ug/L (ppb)	50	96	96	82-110	0
2-Hexanone	ug/L (ppb)	250	100	98	53-145	2
1,3-Dichloropropane	ug/L (ppb)	50	93	92	83-110	1
Tetrachloroethene	ug/L (ppb)	50	92	92	78-109	0
Dibromochloromethane	ug/L (ppb)	50	103	102	63-140	1
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	96	95	85-113	1
Chlorobenzene	ug/L (ppb)	50	87	87	84-108	0
Ethylbenzene	ug/L (ppb)	50	91	91	84-110	0
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	96	99	76-125	3
m,p-Xylene	ug/L (ppb)	100	90	91	84-112	1
o-Xylene	ug/L (ppb)	50	91	92	82-113	1
Styrene	ug/L (ppb)	50	93	93	84-116	0
Isopropylbenzene	ug/L (ppb)	50	89	92	81-122	3
Bromoform	ug/L (ppb)	50	104	107	40-161	3
n-Propylbenzene	ug/L (ppb)	50	93	92	81-115	1
Bromobenzene	ug/L (ppb)	50	92	91	80-113	1
1,3,5-Trimethylbenzene	ug/L (ppb)	50	93	93	83-117	0
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	95	92	79-118	3
1,2,3-Trichloropropane	ug/L (ppb)	50	92	90	74-116	2
2-Chlorotoluene	ug/L (ppb)	50	91	90	79-112	1
4-Chlorotoluene	ug/L (ppb)	50	92	90	81-113	2
tert-Butylbenzene	ug/L (ppb)	50	94	95	81-119	1
1,2,4-Trimethylbenzene	ug/L (ppb)	50	92	91	83-116	1
sec-Butylbenzene	ug/L (ppb)	50	94	94	83-116	0
p-Isopropyltoluene	ug/L (ppb)	50	91	91	82-119	0
1,3-Dichlorobenzene	ug/L (ppb)	50	87	86	83-111	1
1,4-Dichlorobenzene	ug/L (ppb)	50	83	82	82-109	1
1,2-Dichlorobenzene	ug/L (ppb)	50	87	87	83-111	0
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	98	100	62-133	2
1,2,4-Trichlorobenzene	ug/L (ppb)	50	88	89	77-117	1
Hexachlorobutadiene	ug/L (ppb)	50	84	87	74-118	4
Naphthalene	ug/L (ppb)	50	93	95	75-131	2
1,2,3-Trichlorobenzene	ug/L (ppb)	50	87	88	82-115	1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/06/13

Date Received: 10/03/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310077

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
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	ug/L (ppb)	10	32	37	18-52	14
Bis(2-chloroethyl) ether	ug/L (ppb)	10	85	93	52-113	9
2-Chlorophenol	ug/L (ppb)	10	86	95	50-110	10
1,3-Dichlorobenzene	ug/L (ppb)	10	83	85	45-109	2
1,4-Dichlorobenzene	ug/L (ppb)	10	84	85	44-118	1
1,2-Dichlorobenzene	ug/L (ppb)	10	86	87	46-116	1
Benzyl alcohol	ug/L (ppb)	10	75	82	42-100	9
Bis(2-chloroisopropyl) ether	ug/L (ppb)	10	92	97	51-124	5
2-Methylphenol	ug/L (ppb)	10	77	85	38-100	10
Hexachloroethane	ug/L (ppb)	10	82	84	42-117	2
N-Nitroso-di-n-propylamine	ug/L (ppb)	10	92	102	48-124	10
3-Methylphenol + 4-Methylphenol	ug/L (ppb)	10	72	78	48-87	8
Nitrobenzene	ug/L (ppb)	10	86	92	50-118	7
Isophorone	ug/L (ppb)	10	99	105	55-116	6
2-Nitrophenol	ug/L (ppb)	10	98	107	42-127	9
2,4-Dimethylphenol	ug/L (ppb)	10	76	76	45-100	0
Benzoic acid	ug/L (ppb)	65	19	23	10-46	19
Bis(2-chloroethoxy)methane	ug/L (ppb)	10	93	100	55-115	7
2,4-Dichlorophenol	ug/L (ppb)	10	97	105	55-113	8
1,2,4-Trichlorobenzene	ug/L (ppb)	10	84	85	50-109	1
Hexachlorobutadiene	ug/L (ppb)	10	81	82	50-109	1
4-Chloroaniline	ug/L (ppb)	20	93	91	30-109	2
4-Chloro-3-methylphenol	ug/L (ppb)	10	98	106	54-114	8
2-Methylnaphthalene	ug/L (ppb)	10	90	95	53-113	5
Hexachlorocyclopentadiene	ug/L (ppb)	10	64	69	26-94	8
2,4,6-Trichlorophenol	ug/L (ppb)	10	93	100	46-114	7
2,4,5-Trichlorophenol	ug/L (ppb)	10	99	106	57-122	7
2-Chloronaphthalene	ug/L (ppb)	10	84	91	52-112	8
2-Nitroaniline	ug/L (ppb)	10	106	111	47-128	5
Dimethyl phthalate	ug/L (ppb)	10	102	106	55-116	4
2,6-Dinitrotoluene	ug/L (ppb)	10	110	115	49-126	4
3-Nitroaniline	ug/L (ppb)	20	103	104	21-125	1
2,4-Dinitrophenol	ug/L (ppb)	10	98	109	29-130	11
Dibenzofuran	ug/L (ppb)	10	92	97	53-113	5
2,4-Dinitrotoluene	ug/L (ppb)	10	112	117	48-129	4
4-Nitrophenol	ug/L (ppb)	10	39	44	12-59	12
Diethyl phthalate	ug/L (ppb)	10	104	106	55-116	2
4-Chlorophenyl phenyl ether	ug/L (ppb)	10	93	97	52-115	4
N-Nitrosodiphenylamine	ug/L (ppb)	10	94	100	51-112	6
4-Nitroaniline	ug/L (ppb)	20	97	102	42-115	5
4,6-Dinitro-2-methylphenol	ug/L (ppb)	10	100	109	40-128	9
4-Bromophenyl phenyl ether	ug/L (ppb)	10	92	98	53-114	6
Hexachlorobenzene	ug/L (ppb)	10	91	95	54-115	4
Pentachlorophenol	ug/L (ppb)	10	95	106	49-114	11
Carbazole	ug/L (ppb)	10	97	102	54-115	5
Di-n-butyl phthalate	ug/L (ppb)	10	103	109	54-115	6
Benzyl butyl phthalate	ug/L (ppb)	10	110	117	53-122	6
Bis(2-ethylhexyl) phthalate	ug/L (ppb)	10	111	122	54-122	9
Di-n-octyl phthalate	ug/L (ppb)	10	112	122	50-131	9

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/06/13

Date Received: 10/03/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310077

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
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	ug/L (ppb)	1	81	85	67-116	5
Acenaphthylene	ug/L (ppb)	1	83	88	65-119	6
Acenaphthene	ug/L (ppb)	1	80	86	66-118	7
Fluorene	ug/L (ppb)	1	85	91	64-125	7
Phenanthrene	ug/L (ppb)	1	81	87	67-120	7
Anthracene	ug/L (ppb)	1	81	88	65-122	8
Fluoranthene	ug/L (ppb)	1	81	90	65-127	11
Pyrene	ug/L (ppb)	1	85	90	62-130	6
Benz(a)anthracene	ug/L (ppb)	1	79	86	60-118	8
Chrysene	ug/L (ppb)	1	83	91	66-125	9
Benzo(b)fluoranthene	ug/L (ppb)	1	77	93	55-135	19
Benzo(k)fluoranthene	ug/L (ppb)	1	81	88	62-125	8
Benzo(a)pyrene	ug/L (ppb)	1	78	87	58-127	11
Indeno(1,2,3-cd)pyrene	ug/L (ppb)	1	78	83	36-142	6
Dibenz(a,h)anthracene	ug/L (ppb)	1	71	80	37-133	12
Benzo(g,h,i)perylene	ug/L (ppb)	1	72	82	34-135	13

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/06/13

Date Received: 10/03/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310077

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Aroclor 1016	ug/L (ppb)	0.63	96	112	70-130	15
Aroclor 1260	ug/L (ppb)	0.63	92	100	70-130	8

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/06/13

Date Received: 10/03/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310077

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

Laboratory Code: 310050-01 1/10 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Beryllium	ug/L (ppb)	5	<0.980	144	155 vo	67-145	7
Chromium	ug/L (ppb)	20	<1.38	104	106	64-132	2
Nickel	ug/L (ppb)	20	7.90	90 b	92 b	61-128	2 b
Copper	ug/L (ppb)	20	4.20	83 b	86 b	63-124	4 b
Zinc	ug/L (ppb)	50	<6.00	81	82	55-141	1
Arsenic	ug/L (ppb)	10	41.0	121 b	119 b	60-150	2 b
Selenium	ug/L (ppb)	5	130	150 b	181 b	43-178	19 b
Silver	ug/L (ppb)	5	<0.640	69 vo	70 vo	71-115	1
Cadmium	ug/L (ppb)	5	<0.940	100	76 vo	83-116	27 vo
Antimony	ug/L (ppb)	20	<0.520	97	99	62-125	2
Barium	ug/L (ppb)	50	256	103 b	113 b	79-126	9 b
Thallium	ug/L (ppb)	5	<0.740	76	79	73-119	4
Lead	ug/L (ppb)	10	<1.44	79	81	79-121	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Beryllium	ug/L (ppb)	5	104	73-135
Chromium	ug/L (ppb)	20	92	80-119
Nickel	ug/L (ppb)	20	93	79-122
Copper	ug/L (ppb)	20	119	81-119
Zinc	ug/L (ppb)	50	93	76-124
Arsenic	ug/L (ppb)	10	86	80-111
Selenium	ug/L (ppb)	5	92	81-119
Silver	ug/L (ppb)	5	84	80-116
Cadmium	ug/L (ppb)	5	96	83-113
Antimony	ug/L (ppb)	20	81	79-108
Barium	ug/L (ppb)	50	98	83-117
Thallium	ug/L (ppb)	5	102	78-116
Lead	ug/L (ppb)	10	98	83-115

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/06/13

Date Received: 10/03/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310077

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR DISSOLVED METALS USING EPA METHOD 200.8**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Beryllium	ug/L (ppb)	5	111	110	73-135	1
Chromium	ug/L (ppb)	20	105	105	80-119	0
Nickel	ug/L (ppb)	20	103	102	79-122	1
Zinc	ug/L (ppb)	50	99	99	76-124	0
Silver	ug/L (ppb)	5	82	82	80-116	0
Cadmium	ug/L (ppb)	5	98	98	83-113	0
Antimony	ug/L (ppb)	20	91	93	79-108	2
Barium	ug/L (ppb)	50	100	98	83-117	2
Thallium	ug/L (ppb)	5	99	97	78-116	2
Lead	ug/L (ppb)	10	98	96	83-115	2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/06/13

Date Received: 10/03/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310077

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

Laboratory Code: 310077-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Mercury	ug/L (ppb)	0.01	<0.0015	92	96	63-132	4

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Mercury	ug/L (ppb)	0.01	101	78-118

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/06/13

Date Received: 10/03/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310077

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES FOR
DISSOLVED MERCURY
USING EPA METHOD 1631E**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Mercury	ug/L (ppb)	0.01	97	98	78-118	1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/06/13

Date Received: 10/03/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310077

**QUALITY ASSURANCE RESULTS
FROM THE ANALYSIS OF WATER SAMPLES FOR
TOTAL SUSPENDED SOLIDS
BY METHOD 2540D**

Laboratory Code: 310077-02 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
TSS	mg/L	13	<9.7	nm	0-20

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
TSS	mg/L	50	102	61-131

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

RECEIVED

OCT 24 2013

October 22, 2013

Michele Costales Poquiz
Friedman & Bruya
3012 16th Ave W
Seattle, WA 98119

RE: Project: 310077
ARI Job No.: XI69

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 seven water samples on October 7, 2013 under ARI job XI69. For further details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

The samples were analyzed for chloride and TDS, as requested on the COC.

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 XI69

Enclosures



Cooler Receipt Form

ARI Client: Friedmant Bruya
 COC No(s): _____ (NA)
 Assigned ARI Job No: XIL69

Project Name: 310077
 Delivered by: Fed-Ex UPS Courier Hand Delivered Other Postal Express
 Tracking No: 4554020 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)
 Time: 1307 4.5 _____
 If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 908T1952

Cooler Accepted by: JM Date: 10/7/13 Time: 1300

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: _____

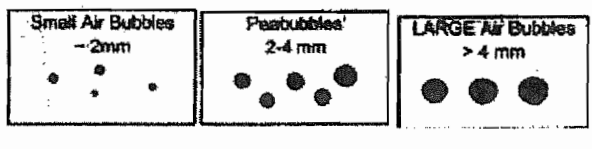
Samples Logged by: AV Date: 10/7/13 Time: 1412

**** 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" (< 2 mm)
 Peabubbles → "pb" (2 to < 4 mm)
 Large → "lg" (4 to < 6 mm)
 Headspace → "hs" (> 6 mm)

Sample ID Cross Reference Report




ARI Job No: XI69
Client: Friedman and Bruya, Inc
Project Event: 310077
Project Name: N/A

Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1. EMW-8S-100313	XI69A	13-21605	Water	10/03/13 07:54	10/07/13 13:00
2. CMW-4-100313	XI69B	13-21606	Water	10/03/13 09:50	10/07/13 13:00
3. EMW-57S-100313	XI69C	13-21607	Water	10/03/13 11:00	10/07/13 13:00
4. EMW-2S-100313	XI69D	13-21608	Water	10/03/13 11:48	10/07/13 13:00
5. SLR-1-100313	XI69E	13-21609	Water	10/03/13 08:47	10/07/13 13:00
6. EMW-12S-100313	XI69F	13-21610	Water	10/03/13 10:15	10/07/13 13:00
7. SLR-3-100313	XI69G	13-21611	Water	10/03/13 11:50	10/07/13 13:00

SAMPLE RESULTS-CONVENTIONALS
XI69-Friedman and Bruya, Inc



Matrix: Water
Data Release Authorized: 
Reported: 10/22/13

Project: NA
Event: 310077
Date Sampled: 10/03/13
Date Received: 10/07/13


Client ID: EMW-8S-100313
ARI ID: 13-21605 XI69A

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/10/13 101013#1	SM2540C	mg/L	5.0	278
Chloride	10/08/13 100813#1	SM4500-CLE	mg/L	1.0	7.0

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XI69-Friedman and Bruya, Inc



Matrix: Water
Data Release Authorized: 
Reported: 10/22/13

Project: NA
Event: 310077
Date Sampled: 10/03/13
Date Received: 10/07/13

Client ID: **CMW-4-100313**
ARI ID: **13-21606 XI69B**

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/10/13 101013#1	SM2540C	mg/L	200	12,500
Chloride	10/08/13 100813#1	SM4500-CLE	mg/L	1,000	7,280

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XI69-Friedman and Bruya, Inc



Matrix: Water
Data Release Authorized:
Reported: 10/22/13

A handwritten signature in black ink, appearing to be a stylized name, located to the right of the matrix and reporting information.

Project: NA
Event: 310077
Date Sampled: 10/03/13
Date Received: 10/07/13


Client ID: EMW-57S-100313
ARI ID: 13-21607 XI69C

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/10/13 101013#1	SM2540C	mg/L	5.0	226
Chloride	10/08/13 100813#1	SM4500-CLE	mg/L	1.0	7.8

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XI69-Friedman and Bruya, Inc



Matrix: Water
Data Release Authorized: 
Reported: 10/22/13

Project: NA
Event: 310077
Date Sampled: 10/03/13
Date Received: 10/07/13

Client ID: EMW-2S-100313
ARI ID: 13-21608 XI69D

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/10/13 101013#1	SM2540C	mg/L	5.0	230
Chloride	10/08/13 100813#1	SM4500-CLE	mg/L	2.0	7.4

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XI69-Friedman and Bruya, Inc



Matrix: Water
Data Release Authorized: *[Signature]*
Reported: 10/22/13

Project: NA
Event: 310077
Date Sampled: 10/03/13
Date Received: 10/07/13

Client ID: SLR-1-100313
ARI ID: 13-21609 XI69E

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/10/13 101013#1	SM2540C	mg/L	5.0	316
Chloride	10/08/13 100813#1	SM4500-CLE	mg/L	2.0	13.2

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XI69-Friedman and Bruya, Inc



Matrix: Water
Data Release Authorized
Reported: 10/22/13

A handwritten signature in black ink, appearing to be 'J. J.', written over the 'Data Release Authorized' text.

Project: NA
Event: 310077
Date Sampled: 10/03/13
Date Received: 10/07/13

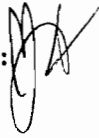
Client ID: EMW-12S-100313
ARI ID: 13-21610 XI69F

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/10/13 101013#1	SM2540C	mg/L	5.0	224
Chloride	10/08/13 100813#1	SM4500-CLE	mg/L	2.0	13.0

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XI69-Friedman and Bruya, Inc



Matrix: Water
Data Release Authorized: 
Reported: 10/22/13

Project: NA
Event: 310077
Date Sampled: 10/03/13
Date Received: 10/07/13


Client ID: SLR-3-100313
ARI ID: 13-21611 XI69G

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/10/13 101013#1	SM2540C	mg/L	13.3	1,320
Chloride	10/08/13 100813#1	SM4500-CLE	mg/L	10.0	39.0

RL Analytical reporting limit
U Undetected at reported detection limit

MS/MSD RESULTS-CONVENTIONALS
XI69-Friedman and Bruya, Inc




Matrix: Water
Data Release Authorized: 
Reported: 10/22/13

Project: NA
Event: 310077
Date Sampled: 10/03/13
Date Received: 10/07/13

Analyte	Method	Date	Units	Sample	Spike	Spike Added	Recovery
ARI ID: XI69A Client ID: EMW-8S-100313							
Chloride	SM4500-CLE	10/08/13	mg/L	7.0	30.7	25.0	94.8%

REPLICATE RESULTS-CONVENTIONALS
XI69-Friedman and Bruya, Inc




Matrix: Water
Data Release Authorized: 
Reported: 10/22/13

Project: NA
Event: 310077
Date Sampled: 10/03/13
Date Received: 10/07/13

Analyte	Method	Date	Units	Sample	Replicate (s)	RPD/RSD
ARI ID: XI69A Client ID: EMW-8S-100313						
Total Dissolved Solids	SM2540C	10/10/13	mg/L	278	276	0.7%
Chloride	SM4500-CLE	10/08/13	mg/L	7.0	6.9	1.4%

LAB CONTROL RESULTS-CONVENTIONALS
XI69-Friedman and Bruya, Inc



Matrix: Water
Data Release Authorized: 
Reported: 10/22/13

Project: NA
Event: 310077
Date Sampled: NA
Date Received: NA

Analyte/Method	QC ID	Date	Units	LCS	Spike Added	Recovery
Total Dissolved Solids SM2540C	ICVL	10/10/13	mg/L	507	500	101.4%

METHOD BLANK RESULTS-CONVENTIONALS
XI69-Friedman and Bruya, Inc



Matrix: Water
Data Release Authorized
Reported: 10/22/13


A handwritten signature in black ink, appearing to be a stylized name, located to the right of the text block.

Project: NA
Event: 310077
Date Sampled: NA
Date Received: NA

Analyte	Method	Date	Units	Blank	ID
Total Dissolved Solids	SM2540C	10/10/13	mg/L	< 5.0 U	
Chloride	SM4500-CLE	10/08/13	mg/L	< 1.0 U	FB
FB	Filtration Blank				

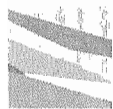
STANDARD REFERENCE RESULTS-CONVENTIONALS
XI69-Friedman and Bruya, Inc



Matrix: Water
Data Release Authorized: 
Reported: 10/22/13

Project: NA
Event: 310077
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Method	Date	Units	SRM	True Value	Recovery
Chloride ERA #411010	SM4500-CLE	10/08/13	mg/L	4.9	5.0	98.0%



November 5, 2013

Michele Poquiz
Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282

Project Name: 310077

Ms Poquiz,

Attached is the report associated with seven (7) aqueous samples submitted for dissolved arsenic, copper, and selenium analyses on October 16, 2013. All samples were received on the same day, October 16, 2013, in a sealed cooler at 4.2°C. Dissolved metals analyses were performed via inductively coupled plasma dynamic reaction cell mass spectrometry (ICP-DRC-MS). Any analytical issues associated with the analyses are addressed in the following report.

If you have any questions, please feel free to contact me at your convenience.

Sincerely,

A handwritten signature in black ink, appearing to read "J. Maute".

Jeremy Maute
Project Coordinator
Applied Speciation and Consulting, LLC

Applied Speciation and Consulting, LLC

Report prepared for:

Michele Poquiz
Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029

Project Name: 310077

November 5, 2013

1. Sample Reception

Seven (7) aqueous samples were submitted for dissolved arsenic, copper, and selenium analyses on October 16, 2013. All samples were received in acceptable condition on the same day, October 16, 2013, in a sealed container at 4.2°C.

The samples submitted for dissolved metals analyses were filtered and preserved prior to reception at Applied Speciation and Consulting. The pH values of the samples were checked upon sample reception to confirm the adequacy of sample preservation.

The samples were received in a laminar flow clean hood void of trace metals contamination and ultra-violet radiation. The samples were stored in a secure enclosed container, known to be free from trace metals contamination, until the digestion and analysis could be performed.

2. Sample Preparation

All sample preparation is performed in laminar flow clean hoods known to be free from trace metals contamination. All applied water for dilutions and sample preservatives are monitored for contamination to account for any biases associated with the sample results.

Dissolved As, Cu, and Se Analysis by ICP-DRC-MS The samples submitted for dissolved metals analyses were filtered and preserved prior to reception at Applied Speciation and Consulting. All preserved samples were digested in accordance with EPA Method 200.8 on October 18, 2013. All sample digests were then analyzed via inductively coupled plasma dynamic reaction cell mass spectrometry (ICP-DRC-MS).

3. Sample Analysis

All sample analysis is precluded by a minimum of a five-point calibration curve spanning the entire concentration range of interest. Calibration curves are performed at the beginning of each analytical day. All calibration curves, associated with each species of interest, are standardized by linear regression resulting in a response factor. All sample results are **instrument blank corrected** to account for any operational biases associated with the analytical platform.

Prior to sample analysis, all calibration curves are verified using second source standards which are identified as initial calibration verification standards (ICV).

Ongoing instrument performance is identified by the analysis of continuing calibration verification standards (CCV) and continuing calibration blanks (CCB) at a minimum interval of every ten analytical runs.

Dissolved As, Cu, and Se Analysis by ICP-DRC-MS All sample digests for dissolved arsenic, copper, and selenium analysis were analyzed by inductively coupled plasma dynamic reaction cell mass spectrometry (ICP-DRC-MS) on October 22, 2013. Aliquots of each sample are introduced into a radio frequency (RF) plasma where energy-transfer processes cause desolvation, atomization, and ionization. The ions are extracted from the plasma through a differentially-pumped vacuum interface and travel through a pressurized chamber (DRC) containing a specific reactive gas which preferentially reacts with interfering ions of the same target mass to charge ratios (m/z). A solid-state detector detects ions transmitted through the mass analyzer, on the basis of their mass-to-charge ratio (m/z), and the resulting current is processed by a data handling system.

4. Analytical Issues

The overall analyses went well and no significant analytical issues were encountered. All quality control parameters associated with these samples were within acceptance limits.

The estimated method detection limits (eMDL) for dissolved metals have been calculated using the standard deviation of the preparation blanks preserved and analyzed concurrently with the submitted samples.

If you have any questions or concerns regarding this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'J Maute', with a stylized flourish extending to the right.

Jeremy Maute
Project Coordinator
Applied Speciation and Consulting, LLC

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013

Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Sampled: 10/3/2013

Date Received: 10/16/2013

Client Sample ID
EMW-8S-100313

Laboratory Sample ID
EMW-8S-100313 Diss

Analyte	Method	Batch ID	Dilution	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	TM1	5	0.018	0.20	40.7
Diss Cu	EPA 200.8	TM1	5	0.060	0.20	0.361
Diss Se	EPA 200.8	TM1	5	0.039	0.20	0.133 J

All results are reported in $\mu\text{g/L}$ and reflect the applied dilution
J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Received: 10/16/2013

Date Sampled: 10/3/2013

Client Sample ID
CMW-4-100313

Laboratory Sample ID
CMW-4-100313 Diss

Analyte	Method	Batch ID	Dilution	eMDL	Reporting	
					Limit	Concentration
Diss As	EPA 200.8	TM1	5	0.018	0.20	206
Diss Cu	EPA 200.8	TM1	5	0.060	0.20	3.64
Diss Se	EPA 200.8	TM1	5	0.039	0.20	0.175 J

All results are reported in $\mu\text{g/L}$ and reflect the applied dilution
J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Received: 10/16/2013

Date Sampled: 10/3/2013

Client Sample ID
EMW-57S-100313

Laboratory Sample ID
EMW-575-100313 Diss

Analyte	Method	Batch ID	Dilution	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	TM1	5	0.018	0.20	1.48
Diss Cu	EPA 200.8	TM1	5	0.060	0.20	0.411
Diss Se	EPA 200.8	TM1	5	0.039	0.20	0.090 J

All results are reported in $\mu\text{g/L}$ and reflect the applied dilution
J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Received: 10/16/2013

Date Sampled: 10/3/2013

Client Sample ID
EMW-2S-100313

Laboratory Sample ID
EMW-25-100313 Diss

Analyte	Method	Batch ID	Dilution	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	TM1	5	0.018	0.20	1.29
Diss Cu	EPA 200.8	TM1	5	0.060	0.20	0.419
Diss Se	EPA 200.8	TM1	5	0.039	0.20	0.057 J

All results are reported in $\mu\text{g/L}$ and reflect the applied dilution
J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Received: 10/16/2013

Date Sampled: 10/3/2013

Client Sample ID
SLR-1-100313

Laboratory Sample ID
SLR-1-100313 Diss

Analyte	Method	Batch ID	Dilution	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	TM1	5	0.018	0.20	2.61
Diss Cu	EPA 200.8	TM1	5	0.060	0.20	0.482
Diss Se	EPA 200.8	TM1	5	0.039	0.20	0.141 J

All results are reported in µg/L and reflect the applied dilution
J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Received: 10/16/2013

Date Sampled: 10/3/2013

Client Sample ID
EMW-12S-100313

Laboratory Sample ID
EMW-12S-100313 Diss

Analyte	Method	Batch ID	Dilution	eMDL	Reporting	
					Limit	Concentration
Diss As	EPA 200.8	TM1	5	0.018	0.20	0.318
Diss Cu	EPA 200.8	TM1	5	0.060	0.20	1.84
Diss Se	EPA 200.8	TM1	5	0.039	0.20	0.169 J

All results are reported in µg/L and reflect the applied dilution
J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Received: 10/16/2013

Date Sampled: 10/3/2013

Client Sample ID
SLR-3-100313
Laboratory Sample ID
SLR-3-100313 Diss

Analyte	Method	Batch ID	Dilution	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	TM1	5	0.018	0.20	28.8
Diss Cu	EPA 200.8	TM1	5	0.060	0.20	5.90
Diss Se	EPA 200.8	TM1	5	0.039	0.20	1.45

All results are reported in µg/L and reflect the applied dilution
J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
 Contact: Michele Poquiz

Date: November 5, 2013
 Report Generated by: Jeremy Maute
 Applied Speciation and Consulting, LLC

Quality Control Summary - Preparation Blank Summary

Analyte (µg/L)	Batch ID	PBW-1	PBW-2	PBW-3	PBW-4	Mean	StdDev	eMDL*	eMDL 5x	Sample RL
Diss As	TM1	0.011	0.011	0.002	-0.001	0.006	0.006	0.004	0.018	0.20
Diss Cu	TM1	0.058	0.071	0.068	0.104	0.075	0.020	0.012	0.060	0.20
Diss Se	TM1	-0.002	-0.027	0.002	-0.010	-0.009	0.013	0.008	0.039	0.20

eMDL = Estimated Method Detection Limit

* Please see narrative regarding eMDL calculations

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Quality Control Summary - Certified Reference Material

Analyte (µg/L)	Batch ID	LCS	True Value	Result	Recovery
Total As	TM1	LCS	400.0	400.1	100.0
Total As	TM1	TMDA-70	40.7	42.8	105.2
Total Cu	TM1	LCS	400.0	416.8	104.2
Total Cu	TM1	TMDA-70	399	414	103.8
Total Se	TM1	LCS	400.0	404.2	101.1
Total Se	TM1	TMDA-70	25.9	25.5	98.5

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Quality Control Summary - Matrix Duplicates

Analyte (µg/L)	Sample ID	Batch ID	Rep 1	Rep 2	Mean	RPD
Diss As	Batch QC	TM1	0.520	0.510	0.515	2.0
Diss Cu	Batch QC	TM1	0.442	0.451	0.447	2.1
Diss Se	Batch QC	TM1	0.122 J	0.117 J	0.119	4.7

J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
 Contact: Michele Poquiz

Date: November 5, 2013
 Report Generated by: Jeremy Maute
 Applied Speciation and Consulting, LLC

Quality Control Summary - Matrix Spike/ Matrix Spike Duplicate

Analyte (µg/L)	Sample ID	Batch ID	Spike Conc	MS Result	Recovery	Spike Conc	MSD Result	Recovery	RPD
Diss As	Batch QC	TM1	400.0	414.5	103.5	400.0	430.0	107.4	3.7
Diss Cu	Batch QC	TM1	400.0	358.9	89.6	400.0	379.6	94.8	5.6
Diss Se	Batch QC	TM1	400.0	396.9	99.2	400.0	428.5	107.1	7.6

310077

SAMPLE CHAIN OF CUSTODY KJ 10/3/13

BOY/BZY/V5

Page # 1 of 1

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

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

SAMPLERS (signature) [Signature]

PROJECT NAME/NO.
 8th Ave Terminals, Inc Site
 Crowley
 101.00205.00030

PO#
 101.00205.00030

REMARKS
 NWTPT4-Dx for DRO + HO after silica gel cleanup

Send Report To Mike Stator

Company SLR International Corp.

Address 22118 20th Ave SE, G202

City, State, ZIP Bothell, WA, 98021

Phone # 425-402-8800 Fax # 425-402-8488

✓ - added per Mike Stator for 10/16/13

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED																	
EMW-85-100313	A-01W	10/3/13	0754	WATER	21	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 260C	SVOCs by 8270N	HFS	Total H ₂ S by 200.8	Disolved H ₂ S by 16312	Disolved H ₂ S by 16312	PAHs by 8230D.SIM	PCBs by 8080A	TSS by 2540D	TDS by 2540C	Chloride by 2540B	Notes	Disolved AS ₂ by 2540B + SR by 2540C	ICP-DRC - MS	
CMW-4-100313	A-02W		0950		23																		
EMW-575-100313	A-03U		1100		21																		
EMW-25-100313	04		1148																				
SLR-1-100313	05V		0847																				
EMW-125-100313	A-06U		1015																				
SLR-3-100313	07V		1150																				
TB-100313	08B		0825		2																		

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

FORMS\COCC\COCC.DOC

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
<u>[Signature]</u>	Amanda Mengrist	SLR	10/3/13	1441
<u>[Signature]</u>	Nhgan Phan	FEBI	10/3/13	1441
Relinquished by: _____				
Received by: _____				
Relinquished by: _____				
Received by: _____				

Samples received at 2 °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

November 19, 2013

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

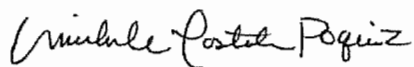
Dear Mr. Staton:

Included are the amended results from the testing of material submitted on September 23, 2013 from the 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309396 project. The results for total and dissolved arsenic and selenium have been flagged due to matrix interference.

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
Chemist

Enclosures
SLR1008R.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

October 8, 2013

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

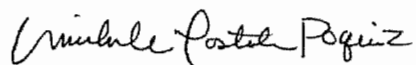
Dear Mr. Staton:

Included are the results from the testing of material submitted on September 23, 2013 from the 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309396 project. There are 47 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
Chemist

Enclosures
SLR1008R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 23, 2013 by Friedman & Bruya, Inc. from the SLR International Corp. 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309396 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
309396-01	SLR-6-092313
309396-02	DMW-3-092313
309396-03	EMW-11S-092313
309396-04	DMW-6-092313
309396-05	EMW-6S-092313
309396-06	EMW-7S-092313
309396-07	HC-20-092313
309396-08	DMW-2-092313
309396-09	EMW-9S-092313
309396-10	SLR-3-092313
309396-11	SLR-2-092313
309396-12	SLR-1-092313
309396-13	EMW-2S-092313
309396-14	EMW-1S-092313
309396-15	SLR-7-092313

Total Metals by EPA Method 200.8

The reporting limits for copper, zinc and antimony were raised due to laboratory contamination.

Compounds in the sample matrix interfered with the quantitation of arsenic and selenium. The results have been flagged accordingly.

Dissolved Metals by EPA Method 200.8

The reporting limits for copper, zinc and antimony were raised due to laboratory contamination.

Compounds in the sample matrix interfered with the quantitation of arsenic and selenium. The results have been flagged accordingly.

The internal standard associated with several analytes in the 200.8 analysis of the sample SLR-3-092313 exceeded acceptance criteria. The sample was diluted and reanalyzed. The results for the full strength and the dilution analyses are included.

Total Mercury by EPA Method 1631E

The reporting limit was raised due to laboratory contamination.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE (continued)

Dissolved Mercury by EPA Method 1631E

The reporting limit was raised due to laboratory contamination.

Total Suspended Solids by Method 2540D

All quality control requirements were acceptable.

Total Dissolved Solids by Method 2540C

The samples were sent to Analytical Resources, Inc. (ARI) for analysis. The report generated by ARI will be forwarded to your office upon receipt.

Chloride by Method SM4500

The samples were sent to ARI for analysis. The report generated by ARI will be forwarded to your office upon receipt.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	SLR-6-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-01
Date Analyzed:	09/25/13	Data File:	309396-01.019
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	93	60	125
Indium	100	60	125
Holmium	103	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	2.09
Nickel	2.00
Copper	<2.00
Zinc	<2.50
Arsenic	0.252 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	18.7
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	DMW-3-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-02
Date Analyzed:	09/25/13	Data File:	309396-02.022
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	104	60	125
Indium	95	60	125
Holmium	97	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.69
Nickel	0.763
Copper	<2.00
Zinc	<2.50
Arsenic	5.41 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	12.7
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-11S-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-03
Date Analyzed:	09/25/13	Data File:	309396-03.023
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	100	60	125
Indium	97	60	125
Holmium	99	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.29
Nickel	4.04
Copper	<2.00
Zinc	14.5
Arsenic	4.42 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	218
Thallium	<0.0740
Lead	0.173

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	DMW-6-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-04
Date Analyzed:	09/25/13	Data File:	309396-04.024
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	123	60	125
Indium	103	60	125
Holmium	106	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.49
Nickel	0.596
Copper	<2.00
Zinc	<2.50
Arsenic	41.1 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	11.8
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-6S-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-05
Date Analyzed:	09/25/13	Data File:	309396-05.025
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

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

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.26
Nickel	1.27
Copper	<2.00
Zinc	<2.50
Arsenic	2.03 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	19.9
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-7S-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-06
Date Analyzed:	09/25/13	Data File:	309396-06.027
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	105	60	125
Indium	97	60	125
Holmium	98	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.50
Nickel	0.992
Copper	<2.00
Zinc	<2.50
Arsenic	3.38 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	15.1
Thallium	<0.0740
Lead	0.165

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	HC-20-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-07
Date Analyzed:	09/25/13	Data File:	309396-07.028
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	107	60	125
Indium	96	60	125
Holmium	100	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.41
Nickel	1.35
Copper	<2.00
Zinc	7.63
Arsenic	14.5 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	21.5
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	DMW-2-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-08
Date Analyzed:	09/25/13	Data File:	309396-08.029
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	100	60	125
Indium	92	60	125
Holmium	95	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	2.78
Nickel	1.25
Copper	<2.00
Zinc	6.20
Arsenic	7.47 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	12.1
Thallium	<0.0740
Lead	2.04

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-9S-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-09
Date Analyzed:	09/25/13	Data File:	309396-09.030
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	109	60	125
Indium	100	60	125
Holmium	102	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.69
Nickel	0.909
Copper	<2.00
Zinc	3.63
Arsenic	25.6 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	64.4
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	SLR-3-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-10
Date Analyzed:	09/25/13	Data File:	309396-10.066
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	122	60	125
Indium	87	60	125
Holmium	95	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	24.0
Nickel	3.51
Copper	<2.00
Zinc	4.37
Arsenic	27.7 ip
Selenium	5.99 ip
Silver	0.427
Cadmium	2.50
Antimony	<1.25
Barium	106
Thallium	<0.0740
Lead	0.673

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	SLR-2-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-11
Date Analyzed:	09/25/13	Data File:	309396-11.031
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	91	60	125
Indium	95	60	125
Holmium	99	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.02
Nickel	1.92
Copper	2.38
Zinc	4.35
Arsenic	1.94 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	2.49
Barium	8.30
Thallium	<0.0740
Lead	0.311

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	SLR-1-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-12
Date Analyzed:	09/25/13	Data File:	309396-12.032
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	100	60	125
Indium	96	60	125
Holmium	99	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	3.74
Nickel	3.20
Copper	5.47
Zinc	45.9
Arsenic	3.67 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	1.93
Barium	31.1
Thallium	<0.0740
Lead	3.66

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-2S-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-13
Date Analyzed:	09/25/13	Data File:	309396-13.033
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	97	60	125
Indium	94	60	125
Holmium	98	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.53
Nickel	1.05
Copper	<2.00
Zinc	<2.50
Arsenic	0.961 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	9.37
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-1S-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-14
Date Analyzed:	09/25/13	Data File:	309396-14.034
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	121	60	125
Indium	96	60	125
Holmium	97	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	2.53
Nickel	1.71
Copper	<2.00
Zinc	11.4
Arsenic	19.1 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	37.8
Thallium	<0.0740
Lead	2.59

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	SLR-7-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-15
Date Analyzed:	09/25/13	Data File:	309396-15.035
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	96	60	125
Indium	95	60	125
Holmium	97	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.736
Nickel	3.70
Copper	<2.00
Zinc	<2.50
Arsenic	2.32 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	15.7
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SLR International Corp.
Date Received:	Not Applicable	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	I3-606 mb
Date Analyzed:	09/25/13	Data File:	I3-606 mb.017
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	94	60	125
Indium	99	60	125
Holmium	101	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	<0.138
Nickel	<0.460
Copper	<2.00
Zinc	<2.50
Arsenic	<0.150
Selenium	<0.560
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	<0.260
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	SLR-6-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-01
Date Analyzed:	09/26/13	Data File:	309396-01.055
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	88	60	125
Indium	91	60	125
Holmium	93	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.363
Nickel	1.87
Copper	3.20
Zinc	4.70
Arsenic	0.304 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	19.6
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	DMW-3-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-02
Date Analyzed:	09/26/13	Data File:	309396-02.037
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	110	60	125
Indium	94	60	125
Holmium	94	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.12
Nickel	2.82
Copper	<2.00
Zinc	<2.50
Arsenic	4.84 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	12.5
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-11S-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-03
Date Analyzed:	09/26/13	Data File:	309396-03.038
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	106	60	125
Indium	95	60	125
Holmium	96	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.760
Nickel	4.41
Copper	<2.00
Zinc	13.2
Arsenic	4.05 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	200
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	DMW-6-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-04
Date Analyzed:	09/26/13	Data File:	309396-04.040
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	119	60	125
Indium	94	60	125
Holmium	95	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.12
Nickel	1.13
Copper	<2.00
Zinc	<2.50
Arsenic	42.3 ip
Selenium	0.570 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	11.7
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-6S-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-05
Date Analyzed:	09/26/13	Data File:	309396-05.041
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	104	60	125
Indium	94	60	125
Holmium	96	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.791
Nickel	1.41
Copper	<2.00
Zinc	<2.50
Arsenic	1.86 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	19.3
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-7S-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-06
Date Analyzed:	09/26/13	Data File:	309396-06.042
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	107	60	125
Indium	93	60	125
Holmium	97	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.02
Nickel	1.21
Copper	<2.00
Zinc	<2.50
Arsenic	2.55 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	13.4
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	HC-20-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-07
Date Analyzed:	09/26/13	Data File:	309396-07.043
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	101	60	125
Indium	89	60	125
Holmium	93	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.10
Nickel	1.74
Copper	<2.00
Zinc	8.84
Arsenic	14.0 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	21.0
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	DMW-2-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-08
Date Analyzed:	09/26/13	Data File:	309396-08.044
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	103	60	125
Indium	91	60	125
Holmium	95	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.76
Nickel	1.10
Copper	<2.00
Zinc	3.92
Arsenic	6.67 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	10.8
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-9S-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-09
Date Analyzed:	09/26/13	Data File:	309396-09.045
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	104	60	125
Indium	87	60	125
Holmium	91	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.33
Nickel	0.992
Copper	<2.00
Zinc	9.39
Arsenic	26.4 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	67.2
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	SLR-3-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-10
Date Analyzed:	09/26/13	Data File:	309396-10.052
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	126 vo	60	125
Indium	83	60	125
Holmium	86	60	125

Analyte:	Concentration ug/L (ppb)
Copper	<2.00 J
Antimony	<1.25
Thallium	<0.0740

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	SLR-3-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-10 x10
Date Analyzed:	09/26/13	Data File:	309396-10 x10.058
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	94	60	125
Indium	90	60	125
Holmium	93	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	30.3
Nickel	6.92
Copper	<20.0
Zinc	<25.0
Arsenic	25.1 ip
Selenium	7.18 ip
Silver	<0.640
Cadmium	2.32
Antimony	<12.5
Barium	104
Thallium	<0.740
Lead	3.60

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	SLR-2-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-11
Date Analyzed:	09/26/13	Data File:	309396-11.046
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	89	60	125
Indium	89	60	125
Holmium	94	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.396
Nickel	3.70
Copper	2.35
Zinc	3.86
Arsenic	0.428 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	2.46
Barium	5.74
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	SLR-1-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-12
Date Analyzed:	09/26/13	Data File:	309396-12.047
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	109	60	125
Indium	90	60	125
Holmium	93	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.52
Nickel	3.11
Copper	<2.00
Zinc	2.93
Arsenic	3.57 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	27.4
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-2S-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-13
Date Analyzed:	09/26/13	Data File:	309396-13.048
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	98	60	125
Indium	85	60	125
Holmium	87	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.997
Nickel	2.53
Copper	<2.00
Zinc	2.86
Arsenic	0.876 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	8.47
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-1S-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-14
Date Analyzed:	09/26/13	Data File:	309396-14.049
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	125	60	125
Indium	92	60	125
Holmium	90	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.14
Nickel	1.90
Copper	<2.00
Zinc	5.45
Arsenic	16.6 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	29.6
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	SLR-7-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-15
Date Analyzed:	09/26/13	Data File:	309396-15.051
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	97	60	125
Indium	89	60	125
Holmium	91	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.436
Nickel	6.35
Copper	<2.00
Zinc	5.01
Arsenic	2.30 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	14.5
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SLR International Corp.
Date Received:	Not Applicable	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	I3-608 mb
Date Analyzed:	09/26/13	Data File:	I3-608 mb.054
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	93	60	125
Indium	91	60	125
Holmium	96	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	<0.138
Nickel	<0.460
Copper	<2.00
Zinc	<2.50
Arsenic	<0.150
Selenium	<0.560
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	<0.260
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/08/13

Date Received: 09/23/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309396

Date Extracted: 09/25/13

Date Analyzed: 09/26/13

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

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Total Mercury</u>
SLR-6-092313 309396-01	<0.0015
DMW-3-092313 309396-02	<0.0015
EMW-11S-092313 309396-03	0.0016
DMW-6-092313 309396-04	<0.0015
EMW-6S-092313 309396-05	<0.0015
EMW-7S-092313 309396-06	<0.0015
HC-20-092313 309396-07	<0.0015
DMW-2-092313 309396-08	<0.0015
EMW-9S-092313 309396-09	<0.0015
SLR-3-092313 309396-10	0.0022
SLR-2-092313 309396-11	0.0018
SLR-1-092313 309396-12	0.0046
EMW-2S-092313 309396-13	<0.0015

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/08/13

Date Received: 09/23/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309396

Date Extracted: 09/25/13

Date Analyzed: 09/26/13

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

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Total Mercury</u>
EMW-1S-092313 309396-14	0.0032
SLR-7-092313 309396-15	<0.0015
Method Blank	<0.0015

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/08/13

Date Received: 09/23/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309396

Date Extracted: 09/25/13

Date Analyzed: 09/26/13

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR DISSOLVED MERCURY
USING EPA METHOD 1631E**
Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Dissolved Mercury</u>
SLR-6-092313 309396-01	<0.0015
DMW-3-092313 309396-02	<0.0015
EMW-11S-092313 309396-03	0.0016
DMW-6-092313 309396-04	<0.0015
EMW-6S-092313 309396-05	<0.0015
EMW-7S-092313 309396-06	<0.0015
HC-20-092313 309396-07	<0.0015
DMW-2-092313 309396-08	<0.0015
EMW-9S-092313 309396-09	<0.0015
SLR-3-092313 309396-10	0.0020
SLR-2-092313 309396-11	<0.0015
SLR-1-092313 309396-12	<0.0015
EMW-2S-092313 309396-13	<0.0015

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/08/13

Date Received: 09/23/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309396

Date Extracted: 09/25/13

Date Analyzed: 09/26/13

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR DISSOLVED MERCURY
USING EPA METHOD 1631E**

Results Reported as ug/L (ppb)

<u>Sample ID</u>	<u>Dissolved Mercury</u>
Laboratory ID	
EMW-1S-092313	<0.0015
309396-14	
SLR-7-092313	<0.0015
309396-15	
Method Blank	<0.0015

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/08/13

Date Received: 09/23/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309396

Date Extracted: NA

Date Analyzed: 9/26/13

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL SUSPENDED SOLIDS
BY METHOD 2540D**

Results Reported as mg/L (ppm)

<u>Sample ID</u> Laboratory ID	Total Suspended <u>Solids</u>
SLR-6-092313 309396-01	<10
DMW-3-092313 309396-02	24
EMW-11S-092313 309396-03	<10
DMW-6-092313 309396-04	<10
EMW-6S-092313 309396-05	<10
EMW-7S-092313 309396-06	<10
HC-20-092313 309396-07	<10
DMW-2-092313 309396-08	<10
EMW-9S-092313 309396-09	<10
SLR-3-092313 309396-10	<10
SLR-2-092313 309396-11	<10
SLR-1-092313 309396-12	<10
EMW-2S-092313 309396-13	<10

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/08/13

Date Received: 09/23/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309396

Date Extracted: NA

Date Analyzed: 9/26/13

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL SUSPENDED SOLIDS
BY METHOD 2540D**

Results Reported as mg/L (ppm)

<u>Sample ID</u> Laboratory ID	Total Suspended <u>Solids</u>
EMW-1S-092313 309396-14	130
SLR-7-092313 309396-15	16
Method Blank	<10

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/08/13

Date Received: 09/23/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309396

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

Laboratory Code: 309396-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Beryllium	ug/L (ppb)	5	<0.0980	109	105	67-145	4
Chromium	ug/L (ppb)	20	2.09	99	94	64-132	5
Nickel	ug/L (ppb)	20	2.00	97	91	61-128	6
Copper	ug/L (ppb)	20	<2.00	98	92	63-124	6
Zinc	ug/L (ppb)	50	<2.50	98	93	55-141	5
Arsenic	ug/L (ppb)	10	0.252 ip	103	99	60-150	4
Selenium	ug/L (ppb)	5	<0.560 ip	109	105	43-178	4
Silver	ug/L (ppb)	5	<0.0640	92	90	71-115	2
Cadmium	ug/L (ppb)	5	<0.0940	95	91	83-116	4
Antimony	ug/L (ppb)	20	<1.25	96	94	62-125	2
Barium	ug/L (ppb)	50	18.7	99 b	93 b	79-126	6 b
Thallium	ug/L (ppb)	5	<0.0740	95	92	73-119	3
Lead	ug/L (ppb)	10	<0.144	93	89	79-121	4

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Beryllium	ug/L (ppb)	5	100	73-135
Chromium	ug/L (ppb)	20	98	80-119
Nickel	ug/L (ppb)	20	99	79-122
Copper	ug/L (ppb)	20	106	81-119
Zinc	ug/L (ppb)	50	96	76-124
Arsenic	ug/L (ppb)	10	92	80-111
Selenium	ug/L (ppb)	5	98	81-119
Silver	ug/L (ppb)	5	96	80-116
Cadmium	ug/L (ppb)	5	96	83-113
Antimony	ug/L (ppb)	20	94	79-108
Barium	ug/L (ppb)	50	98	83-117
Thallium	ug/L (ppb)	5	94	78-116
Lead	ug/L (ppb)	10	93	83-115

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/08/13

Date Received: 09/23/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309396

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR DISSOLVED METALS USING EPA METHOD 200.8**

Laboratory Code: 309396-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Beryllium	ug/L (ppb)	5	<0.0980	107	108	67-145	1
Chromium	ug/L (ppb)	20	0.363	90	89	64-132	1
Nickel	ug/L (ppb)	20	1.87	89	89	61-128	0
Copper	ug/L (ppb)	20	3.20	87	88	63-124	1
Zinc	ug/L (ppb)	50	4.70	89	89	55-141	0
Arsenic	ug/L (ppb)	10	0.304 ip	92	91	60-150	1
Selenium	ug/L (ppb)	5	<0.560 ip	92	90	43-178	2
Silver	ug/L (ppb)	5	<0.0640	84	85	71-115	1
Cadmium	ug/L (ppb)	5	<0.0940	91	95	83-116	4
Antimony	ug/L (ppb)	20	<1.25	94	98	62-125	4
Barium	ug/L (ppb)	50	19.6	93 b	92 b	79-126	1 b
Thallium	ug/L (ppb)	5	<0.0740	91	95	73-119	4
Lead	ug/L (ppb)	10	<0.144	91	91	79-121	0

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Beryllium	ug/L (ppb)	5	102	73-135
Chromium	ug/L (ppb)	20	91	80-119
Nickel	ug/L (ppb)	20	95	79-122
Copper	ug/L (ppb)	20	95	81-119
Zinc	ug/L (ppb)	50	101	76-124
Arsenic	ug/L (ppb)	10	91	80-111
Selenium	ug/L (ppb)	5	93	81-119
Silver	ug/L (ppb)	5	95	80-116
Cadmium	ug/L (ppb)	5	98	83-113
Antimony	ug/L (ppb)	20	93	79-108
Barium	ug/L (ppb)	50	101	83-117
Thallium	ug/L (ppb)	5	97	78-116
Lead	ug/L (ppb)	10	95	83-115

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/08/13

Date Received: 09/23/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309396

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

Laboratory Code: 309396-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Mercury	ug/L (ppb)	0.01	<0.0015	98	100	63-132	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Mercury	ug/L (ppb)	0.01	97	78-118

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/08/13

Date Received: 09/23/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309396

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES FOR
DISSOLVED MERCURY
USING EPA METHOD 1631E**

Laboratory Code: 309396-06 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Mercury	ug/L (ppb)	0.01	<0.0015	98	96	63-132	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Mercury	ug/L (ppb)	0.01	98	78-118

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/08/13

Date Received: 09/23/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309396

**QUALITY ASSURANCE RESULTS
FROM THE ANALYSIS OF WATER SAMPLES FOR
TOTAL SUSPENDED SOLIDS
BY METHOD 2540D**

Laboratory Code: 309396-15 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
TSS	mg/L	16	15	6	0-20

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
TSS	mg/L	50	98	100	61-131	2

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

October 7, 2013

Michele Costales Poquiz
Friedman & Bruya
3012 16th Ave W
Seattle, WA 98119

RE: Project: 309396
ARI Job No.: XG33

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 fifteen water samples on September 24, 2013 under ARI job XG33. For further details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

The samples were analyzed for chloride and TDS, as requested on the COC.

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 XG33

Enclosures

1905

SAMPLE CHAIN OF CUSTODY

Page # 1 of 2

SUBCONTRACTOR Analytical Resources, Inc. (ARI)	
PROJECT NAME/NO. <u>309396</u>	PO # <u>C-553</u>
REMARKS Please e-mail results ELECTRONIC DATA REQUESTED (EIM)	

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 mipoquiz@friedmanandbruya.com

TURNAROUND TIME	
<input checked="" type="checkbox"/> Standard Turnaround	
<input type="checkbox"/> RUSH	Rush charges authorized by: _____
SAMPLE DISPOSAL	
<input type="checkbox"/> Dispose after 30 days	
<input type="checkbox"/> Return samples	
<input type="checkbox"/> Will call with instructions	
Samples Received at <u> </u> °C	

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED										Notes									
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Hexavalent Cr by 7196A	Total Organic Carbon by 9060M	TDS by 2540C	Chloride by SM4500										
SLR-6-092313		9/23/13	1027	water	2																				
DMW-3-092313			1214																						
EMW-11S-092313			1332																						
DMW-6-092313			1436																						
EMW-6S-092313			1023																						
EMW-7S-092313			1135																						
HC-20-092313			1242																						
DMW-2-092313			1353																						
EMW-9S-092313			1511																						
SLR-3-092313			1515																						

Friedman & Bruya, Inc. 3012 16th Avenue West Seattle, WA 98119-2029 Ph. (206) 285-8282 Fax (206) 283-5044		SIGNATURE <i>Michele Costales Poquiz</i>		PRINT NAME Michele Costales Poquiz		COMPANY F&B		DATE 9/24/13		TIME 10:57AM	
Relinquished by: _____		Received by: _____		Relinquished by: _____		Received by: _____		Relinquished by: _____		Received by: _____	
Relinquished by: _____		Received by: _____		Relinquished by: _____		Received by: _____		Relinquished by: _____		Received by: _____	

XG330 : 000002



Cooler Receipt Form

ARI Client: Friedman + Brusci
 COC No(s): _____ (NA)
 Assigned ARI Job No: XG33

Project Name: _____
 Delivered by: Fed-Ex UPS Courier Hand Delivered Other: FE Stair Express
 Tracking No: 4514189 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)
 Time: 11:56 6.6 _____
 If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 97027795

Cooler Accepted by: AV Date: 9/24/13 Time: 11:57

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 YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: AV Date: 9/24/13 Time: 12:46

**** 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" (< 2 mm)
 Peabubbles → "pb" (2 to < 4 mm)
 Large → "lg" (4 to < 6 mm)
 Headspace → "hs" (> 6 mm)

Sample ID Cross Reference Report



ARI Job No: XG33
Client: Friedman and Bruya, Inc
Project Event: 309396
Project Name: N/A

Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1. SLR-6-092313	XG33A	13-20400	Water	09/23/13 10:27	09/24/13 11:57
2. DMW-3-092313	XG33B	13-20401	Water	09/23/13 12:14	09/24/13 11:57
3. EMW-11S-092313	XG33C	13-20402	Water	09/23/13 13:32	09/24/13 11:57
4. DMW-6-092313	XG33D	13-20403	Water	09/23/13 14:36	09/24/13 11:57
5. EMW-6S-092313	XG33E	13-20404	Water	09/23/13 10:23	09/24/13 11:57
6. EMW-7S-092313	XG33F	13-20405	Water	09/23/13 11:35	09/24/13 11:57
7. HC-20-092313	XG33G	13-20406	Water	09/23/13 12:42	09/24/13 11:57
8. DMW-2-092313	XG33H	13-20407	Water	09/23/13 13:53	09/24/13 11:57
9. EMW-9S-092313	XG33I	13-20408	Water	09/23/13 15:11	09/24/13 11:57
10. SLR-3-092313	XG33J	13-20409	Water	09/23/13 15:15	09/24/13 11:57
11. SLR-2-092313	XG33K	13-20410	Water	09/23/13 12:50	09/24/13 11:57
12. SLR-1-092313	XG33L	13-20411	Water	09/23/13 12:10	09/24/13 11:57
13. EMW-2S-092313	XG33M	13-20412	Water	09/23/13 10:10	09/24/13 11:57
14. EMW-1S-092313	XG33N	13-20413	Water	09/23/13 13:30	09/24/13 11:57
15. SLR-7-092313	XG33O	13-20414	Water	09/23/13 14:30	09/24/13 11:57

SAMPLE RESULTS-CONVENTIONALS
XG33-Friedman and Bruya, Inc



Matrix: Water
Data Release Authorized:
Reported: 10/07/13

Project: NA
Event: 309396
Date Sampled: 09/23/13
Date Received: 09/24/13


Client ID: SLR-6-092313
ARI ID: 13-20400 XG33A

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/26/13 092613#1	SM2540C	mg/L	5.0	224
Chloride	10/01/13 100113#1	SM4500-CLE	mg/L	2.0	11.5

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XG33-Friedman and Bruya, Inc



Matrix: Water
Data Release Authorized: 
Reported: 10/07/13

Project: NA
Event: 309396
Date Sampled: 09/23/13
Date Received: 09/24/13


Client ID: DMW-3-092313
ARI ID: 13-20401 XG33B

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/26/13 092613#1	SM2540C	mg/L	5.0	200
Chloride	10/01/13 100113#1	SM4500-CLE	mg/L	5.0	11.4

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XG33-Friedman and Bruya, Inc



Matrix: Water
Data Release Authorized: 
Reported: 10/07/13

Project: NA
Event: 309396
Date Sampled: 09/23/13
Date Received: 09/24/13

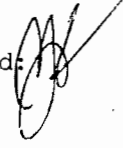
Client ID: EMW-11S-092313
ARI ID: 13-20402 XG33C

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/26/13 092613#1	SM2540C	mg/L	5.0	250
Chloride	10/01/13 100113#1	SM4500-CLE	mg/L	1.0	6.5

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XG33-Friedman and Bruya, Inc



Matrix: Water
Data Release Authorized: 
Reported: 10/07/13

Project: NA
Event: 309396
Date Sampled: 09/23/13
Date Received: 09/24/13


Client ID: DMW-6-092313
ARI ID: 13-20403 XG33D

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/26/13 092613#1	SM2540C	mg/L	5.0	230
Chloride	10/01/13 100113#1	SM4500-CLE	mg/L	5.0	11.3

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XG33-Friedman and Bruya, Inc



Matrix: Water
Data Release Authorized: 
Reported: 10/07/13

Project: NA
Event: 309396
Date Sampled: 09/23/13
Date Received: 09/24/13

Client ID: EMW-6S-092313
ARI ID: 13-20404 XG33E

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/26/13 092613#1	SM2540C	mg/L	5.0	225
Chloride	10/01/13 100113#1	SM4500-CLE	mg/L	1.0	6.8

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XG33-Friedman and Bruya, Inc



Matrix: Water
Data Release Authorized:
Reported: 10/07/13

A handwritten signature in black ink, appearing to be a stylized name, located to the right of the matrix and authorization information.

Project: NA
Event: 309396
Date Sampled: 09/23/13
Date Received: 09/24/13


Client ID: EMW-7S-092313
ARI ID: 13-20405 XG33F

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/26/13 092613#1	SM2540C	mg/L	5.0	240
Chloride	10/01/13 100113#1	SM4500-CLE	mg/L	5.0	6.3

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XG33-Friedman and Bruya, Inc



Matrix: Water
Data Release Authorized: 
Reported: 10/07/13

Project: NA
Event: 309396
Date Sampled: 09/23/13
Date Received: 09/24/13

Client ID: HC-20-092313
ARI ID: 13-20406 XG33G

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/26/13 092613#1	SM2540C	mg/L	5.0	200
Chloride	10/01/13 100113#1	SM4500-CLE	mg/L	1.0	4.8

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XG33-Friedman and Bruya, Inc



Matrix: Water
Data Release Authorized:
Reported: 10/07/13

A handwritten signature in black ink, appearing to be 'JF' or similar, written over the 'Data Release Authorized' text.

Project: NA
Event: 309396
Date Sampled: 09/23/13
Date Received: 09/24/13

Client ID: DMW-2-092313
ARI ID: 13-20407 XG33H

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/26/13 092613#1	SM2540C	mg/L	5.0	268
Chloride	10/01/13 100113#1	SM4500-CLE	mg/L	1.0	9.1

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XG33-Friedman and Bruya, Inc



Matrix: Water
Data Release Authorized:
Reported: 10/07/13

A handwritten signature in black ink, appearing to be initials or a name, written over the 'Data Release Authorized' text.

Project: NA
Event: 309396
Date Sampled: 09/23/13
Date Received: 09/24/13


Client ID: EMW-9S-092313
ARI ID: 13-20408 XG33I

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/26/13 092613#1	SM2540C	mg/L	5.0	244
Chloride	10/01/13 100113#1	SM4500-CLE	mg/L	5.0	9.6

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XG33-Friedman and Bruya, Inc



Matrix: Water
Data Release Authorized: 
Reported: 10/07/13

Project: NA
Event: 309396
Date Sampled: 09/23/13
Date Received: 09/24/13


Client ID: SLR-3-092313
ARI ID: 13-20409 XG33J

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/26/13 092613#1	SM2540C	mg/L	13.3	1,250
Chloride	10/01/13 100113#1	SM4500-CLE	mg/L	20.0	42.2

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XG33-Friedman and Bruya, Inc



Matrix: Water
Data Release Authorized: 
Reported: 10/07/13

Project: NA
Event: 309396
Date Sampled: 09/23/13
Date Received: 09/24/13


Client ID: SLR-2-092313
ARI ID: 13-20410 XG33K

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/26/13 092613#1	SM2540C	mg/L	5.0	218
Chloride	10/01/13 100113#1	SM4500-CLE	mg/L	1.0	2.4

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XG33-Friedman and Bruya, Inc



Matrix: Water
Data Release Authorized: 
Reported: 10/07/13

Project: NA
Event: 309396
Date Sampled: 09/23/13
Date Received: 09/24/13


Client ID: SLR-1-092313
ARI ID: 13-20411 XG33L

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/26/13 092613#1	SM2540C	mg/L	5.0	259
Chloride	10/01/13 100113#1	SM4500-CLE	mg/L	2.0	11.7

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XG33-Friedman and Bruya, Inc



Matrix: Water
Data Release Authorized: 
Reported: 10/07/13

Project: NA
Event: 309396
Date Sampled: 09/23/13
Date Received: 09/24/13


Client ID: EMW-2S-092313
ARI ID: 13-20412 XG33M

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/26/13 092613#1	SM2540C	mg/L	5.0	234
Chloride	10/01/13 100113#1	SM4500-CLE	mg/L	5.0	10.0

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XG33-Friedman and Bruya, Inc



Matrix: Water
Data Release Authorized: 
Reported: 10/07/13

Project: NA
Event: 309396
Date Sampled: 09/23/13
Date Received: 09/24/13

Client ID: EMW-1S-092313
ARI ID: 13-20413 XG33N

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/26/13 092613#1	SM2540C	mg/L	10.0	328
Chloride	10/01/13 100113#1	SM4500-CLE	mg/L	5.0	5.7

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XG33-Friedman and Bruya, Inc



Matrix: Water
Data Release Authorized:
Reported: 10/07/13

A handwritten signature in black ink, appearing to be 'JW' or similar, written over the 'Data Release Authorized' text.

Project: NA
Event: 309396
Date Sampled: 09/23/13
Date Received: 09/24/13

Client ID: SLR-7-092313
ARI ID: 13-20414 XG330

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/26/13 092613#1	SM2540C	mg/L	5.0	268
Chloride	10/01/13 100113#1	SM4500-CLE	mg/L	1.0	6.7

RL Analytical reporting limit
U Undetected at reported detection limit

MS/MSD RESULTS-CONVENTIONALS
XG33-Friedman and Bruya, Inc



Matrix: Water
Data Release Authorized:
Reported: 10/07/13


A handwritten signature in black ink, appearing to be 'GJ' or similar, written over the 'Data Release Authorized' line.

Project: NA
Event: 309396
Date Sampled: 09/23/13
Date Received: 09/24/13

Analyte	Method	Date	Units	Sample	Spike	Spike Added	Recovery
ARI ID: XG33A Client ID: SLR-6-092313							
Chloride	SM4500-CLE	10/01/13	mg/L	11.5	38.9	25.0	109.6%

REPLICATE RESULTS-CONVENTIONALS
XG33-Friedman and Bruya, Inc




Matrix: Water
Data Release Authorized: 
Reported: 10/07/13

Project: NA
Event: 309396
Date Sampled: 09/23/13
Date Received: 09/24/13

Analyte	Method	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: XG33A Client ID: SLR-6-092313						
Total Dissolved Solids	SM2540C	09/26/13	mg/L	224	226	0.9%
Chloride	SM4500-CLE	10/01/13	mg/L	11.5	11.4	0.9%

LAB CONTROL RESULTS-CONVENTIONALS
XG33-Friedman and Bruya, Inc



Matrix: Water
Data Release Authorized: 
Reported: 10/07/13

Project: NA
Event: 309396
Date Sampled: NA
Date Received: NA

Analyte/Method	QC ID	Date	Units	LCS	Spike Added	Recovery
Total Dissolved Solids SM2540C	ICVL	09/26/13	mg/L	490	500	98.0%

METHOD BLANK RESULTS-CONVENTIONALS
XG33-Friedman and Bruya, Inc



Matrix: Water
Data Release Authorized
Reported: 10/07/13

A handwritten signature in black ink, appearing to be 'WJ' or similar, written over the 'Data Release Authorized' text.


Project: NA
Event: 309396
Date Sampled: NA
Date Received: NA

Analyte	Method	Date	Units	Blank	ID
Total Dissolved Solids	SM2540C	09/26/13	mg/L	< 5.0 U	
Chloride	SM4500-CLE	10/01/13	mg/L	< 1.0 U	FB

FB Filtration Blank

STANDARD REFERENCE RESULTS-CONVENTIONALS
XG33-Friedman and Bruya, Inc



Matrix: Water
Data Release Authorized: 
Reported: 10/07/13

Project: NA
Event: 309396
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Method	Date	Units	SRM	True Value	Recovery
Chloride ERA #411010	SM4500-CLE	10/01/13	mg/L	5.0	5.0	100.0%

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
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www.friedmanandbruya.com

November 19, 2013

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

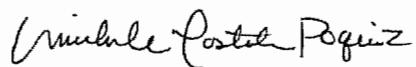
Dear Mr. Staton:

Included are the amended results from the testing of material submitted on September 26, 2013 from the 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309475 project. The results for total and dissolved arsenic and selenium have been flagged due to matrix interference.

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
Chemist

Enclosures
SLR1008R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
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Michael Erdahl, B.S.
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October 8, 2013

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

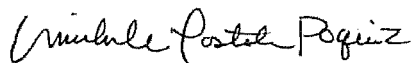
Dear Mr. Staton:

Included are the results from the testing of material submitted on September 26, 2013 from the 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309475 project. There are 14 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
Chemist

Enclosures
SLR1008R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 26, 2013 by Friedman & Bruya, Inc. from the SLR International Corp. 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309475 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
309475-01	CMW-7-092613

Total Metals by EPA Method 200.8

The reporting limits for copper, zinc and antimony were raised due to potential low level laboratory contamination.

Compounds in the sample matrix interfered with the quantitation of arsenic and selenium. The results have been flagged accordingly.

Dissolved Metals by EPA Method 200.8

The reporting limits for copper, zinc and antimony were raised due to potential low level laboratory contamination.

Compounds in the sample matrix interfered with the quantitation of arsenic and selenium. The results have been flagged accordingly.

Total Mercury by EPA Method 1631E

The reporting limit was raised due to potential low level laboratory contamination.

Dissolved Mercury by EPA Method 1631E

The reporting limit was raised due to potential low level laboratory contamination.

Total Suspended Solids by Method 2540D

All quality control requirements were acceptable.

Total Dissolved Solids by Method 2540C

The samples were sent to Analytical Resources, Inc. (ARI) for analysis. The report generated by ARI will be forwarded to your office upon receipt.

Chloride by Method SM4500

The samples were sent to ARI for analysis. The report generated by ARI will be forwarded to your office upon receipt.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	CMW-7-092613	Client:	SLR International Corp.
Date Received:	09/26/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/27/13	Lab ID:	309475-01
Date Analyzed:	09/30/13	Data File:	309475-01.073
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	66	60	125
Indium	64	60	125
Holmium	71	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.03
Nickel	3.80
Copper	10.5
Zinc	<2.50
Arsenic	4.31 ip
Selenium	15.0 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	53.0
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SLR International Corp.
Date Received:	Not Applicable	Project:	Crowley 101.00205.00030
Date Extracted:	09/27/13	Lab ID:	I3-618 mb
Date Analyzed:	09/30/13	Data File:	I3-618 mb.011
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	98	60	125
Indium	101	60	125
Holmium	98	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	<0.138
Nickel	<0.460
Copper	<2.00
Zinc	<2.50
Arsenic	<0.150
Selenium	<0.560
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	<0.260
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	CMW-7-092613	Client:	SLR International Corp.
Date Received:	09/26/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/30/13	Lab ID:	309475-01
Date Analyzed:	10/02/13	Data File:	309475-01.063
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	79	60	125
Indium	77	60	125
Holmium	80	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.575
Nickel	5.55
Copper	8.33
Zinc	<2.50
Arsenic	4.54 ip
Selenium	15.4 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	51.4
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SLR International Corp.
Date Received:	Not Applicable	Project:	Crowley 101.00205.00030
Date Extracted:	09/30/13	Lab ID:	I3-622 mb
Date Analyzed:	10/02/13	Data File:	I3-622 mb.044
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	83	60	125
Indium	83	60	125
Holmium	85	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	<0.138
Nickel	<0.460
Copper	<2.00
Zinc	<2.50
Arsenic	<0.150
Selenium	<0.560
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	<0.260
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/08/13

Date Received: 09/26/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309475

Date Extracted: 09/30/13

Date Analyzed: 10/03/13

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

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Total Mercury</u>
CMW-7-092613 309475-01	0.0015
Method Blank	<0.0015

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/08/13

Date Received: 09/26/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309475

Date Extracted: 09/30/13

Date Analyzed: 10/01/13

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR DISSOLVED MERCURY
USING EPA METHOD 1631E**

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Dissolved Mercury</u>
CMW-7-092613 309475-01	<0.0015
Method Blank	<0.0015

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/08/13

Date Received: 09/26/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309475

Date Extracted: NA

Date Analyzed: 9/30/13

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL SUSPENDED SOLIDS
BY METHOD 2540D**

Results Reported as mg/L (ppm)

<u>Sample ID</u> Laboratory ID	Total Suspended <u>Solids</u>
CMW-7-092613 309475-01	<10
Method Blank	<10

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/08/13

Date Received: 09/26/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309475

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

Laboratory Code: 309420-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Beryllium	ug/L (ppb)	5	<0.0980	103	101	67-145	2
Chromium	ug/L (ppb)	20	0.601	101	103	64-132	2
Nickel	ug/L (ppb)	20	3.34	97	95	61-128	2
Copper	ug/L (ppb)	20	<2.00	100	97	63-124	3
Zinc	ug/L (ppb)	50	<2.50	98	95	55-141	3
Arsenic	ug/L (ppb)	10	0.321 ip	104	103	60-150	1
Selenium	ug/L (ppb)	5	<0.560 ip	105	106	43-178	1
Silver	ug/L (ppb)	5	<0.0640	96	99	71-115	3
Cadmium	ug/L (ppb)	5	<0.0940	102	100	83-116	2
Antimony	ug/L (ppb)	20	<1.25	101	101	62-125	0
Barium	ug/L (ppb)	50	10.3	103 b	100 b	79-126	3 b
Thallium	ug/L (ppb)	5	<0.0740	98	96	73-119	2
Lead	ug/L (ppb)	10	<0.144	96	95	79-121	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Beryllium	ug/L (ppb)	5	104	73-135
Chromium	ug/L (ppb)	20	106	80-119
Nickel	ug/L (ppb)	20	105	79-122
Copper	ug/L (ppb)	20	112	81-119
Zinc	ug/L (ppb)	50	102	76-124
Arsenic	ug/L (ppb)	10	99	80-111
Selenium	ug/L (ppb)	5	103	81-119
Silver	ug/L (ppb)	5	106	80-116
Cadmium	ug/L (ppb)	5	103	83-113
Antimony	ug/L (ppb)	20	102	79-108
Barium	ug/L (ppb)	50	105	83-117
Thallium	ug/L (ppb)	5	102	78-116
Lead	ug/L (ppb)	10	99	83-115

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/08/13

Date Received: 09/26/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309475

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR DISSOLVED METALS USING EPA METHOD 200.8**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Beryllium	ug/L (ppb)	5	97	91	73-135	6
Chromium	ug/L (ppb)	20	100	94	80-119	6
Nickel	ug/L (ppb)	20	100	95	79-122	5
Copper	ug/L (ppb)	20	98	95	81-119	3
Zinc	ug/L (ppb)	50	98	93	76-124	5
Arsenic	ug/L (ppb)	10	96	92	80-111	4
Selenium	ug/L (ppb)	5	104	92	81-119	12
Silver	ug/L (ppb)	5	104	99	80-116	5
Cadmium	ug/L (ppb)	5	99	96	83-113	3
Antimony	ug/L (ppb)	20	99	97	79-108	2
Barium	ug/L (ppb)	50	106	101	83-117	5
Thallium	ug/L (ppb)	5	103	103	78-116	0
Lead	ug/L (ppb)	10	100	97	83-115	3

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/08/13

Date Received: 09/26/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309475

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

Laboratory Code: 309420-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Mercury	ug/L (ppb)	0.01	<0.0015	96	99	63-132	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Mercury	ug/L (ppb)	0.01	103	78-118

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/08/13

Date Received: 09/26/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309475

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES FOR
DISSOLVED MERCURY
USING EPA METHOD 1631E**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Mercury	ug/L (ppb)	0.01	99	100	78-118	1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/08/13

Date Received: 09/26/13

Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309475

**QUALITY ASSURANCE RESULTS
FROM THE ANALYSIS OF WATER SAMPLES FOR
TOTAL SUSPENDED SOLIDS
BY METHOD 2540D**

Laboratory Code: 309514-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
TSS	mg/L	<10	<10	nm	0-20

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
TSS	mg/L	50	83	91	61-131	9

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

October 9, 2013

Michele Costales Poquiz
Friedman & Bruya
3012 16th Ave W
Seattle, WA 98119

RE: Project: 309475
ARI Job No.: XH33

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 water sample on September 30, 2013 under ARI job XH33. For further details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

The sample was analyzed for chloride and TDS, as requested on the COC.

There were no anomalies associated with the analyses of this sample.

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 XH33

Enclosures

X4133

SAMPLE CHAIN OF CUSTODY

Page # _____ of _____

TURNAROUND TIME
 Standard Turnaround
 RUSH
 Rush charges authorized by: _____

SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 Will call with instructions
 Samples Received at _____ °C

SUBCONTRACTOR
 Analytical Resources, Inc. (ARI)

PROJECT NAME/NO.
 309475

PO #
 C-521

REMARKS
 Please e-mail results
 ELECTRONIC DATA REQUESTED (EIM)

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 mipoquiz@friedmanandbruya.com

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED										Notes										
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Hexavalent Cr by 7196A	Total Organic Carbon by 9060M	TDS by 2540C	Chloride by SM4500											
CMW-7-092613		9/26/13	1112	water	2									X												

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

Relinquished by: Michele Costales Poquiz SIGNATURE

Received by: Michele Costales Poquiz PRINT NAME

Relinquished by: _____ COMPANY

Received by: _____ DATE

Relinquished by: _____ TIME

Received by: _____

X4133 : 000002



Cooler Receipt Form

ARI Client: Friedman by Kruger

Project Name: _____

COC No(s) _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: Postal Europe

Assigned ARI Job No. XH33

Tracking No: _____ 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)
Time: 1425 119

Temp Gun ID#: 90877952

If cooler temperature is out of compliance fill out form 00070F

Cooler Accepted by: TS Date: 9-30-13 Time: 1425

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 AV Date: 9/30/13 Time: 1430

**** 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" (< 2 mm)
			Peabubbles → "pb" (2 to < 4 mm)
			Large → "lg" (4 to < 6 mm)
			Headspace → "hs" (> 6 mm)

Sample ID Cross Reference Report



ARI Job No: XH33
Client: Friedman and Bruya, Inc
Project Event: 309475
Project Name: N/A

Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1. CMW-7-092613	XH33A	13-21145	Water	09/26/13 11:12	09/30/13 14:25

SAMPLE RESULTS-CONVENTIONALS
XH33-Friedman and Bruya, Inc



Matrix: Water
Data Release Authorized:
Reported: 10/09/13

A handwritten signature in black ink, appearing to be 'J. Friedman', written over the 'Data Release Authorized' text.

Project: NA
Event: 309475
Date Sampled: 09/26/13
Date Received: 09/30/13

Client ID: CMW-7-092613
ARI ID: 13-21145 XH33A

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/01/13 100113#1	SM2540C	mg/L	50.0	2,380
Chloride	10/08/13 100813#1	SM4500-CLE	mg/L	200	1,260

RL Analytical reporting limit
U Undetected at reported detection limit

REPLICATE RESULTS-CONVENTIONALS
XH33-Friedman and Bruya, Inc



Matrix: Water
Data Release Authorized
Reported: 10/09/13

A handwritten signature in black ink, appearing to be 'M.B.' or similar, written over the 'Data Release Authorized' text.

Project: NA
Event: 309475
Date Sampled: 09/26/13
Date Received: 09/30/13

Analyte	Method	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: XH33A Client ID: CMW-7-092613						
Total Dissolved Solids	SM2540C	10/01/13	mg/L	2,380	2,500	4.9%

LAB CONTROL RESULTS-CONVENTIONALS
XH33-Friedman and Bruya, Inc



Matrix: Water
Data Release Authorized:
Reported: 10/09/13

A handwritten signature in black ink, appearing to be 'J. B.' or similar, written over the 'Data Release Authorized' line.

Project: NA
Event: 309475
Date Sampled: NA
Date Received: NA

Analyte/Method	QC ID	Date	Units	LCS	Spike Added	Recovery
Total Dissolved Solids SM2540C	ICVL	10/01/13	mg/L	494	500	98.8%

METHOD BLANK RESULTS-CONVENTIONALS
XH33-Friedman and Bruya, Inc



Matrix: Water
Data Release Authorized:
Reported: 10/09/13

A handwritten signature in black ink, appearing to be 'J. Friedman', written over the 'Data Release Authorized' text.


Project: NA
Event: 309475
Date Sampled: NA
Date Received: NA

Analyte	Method	Date	Units	Blank	ID
Total Dissolved Solids	SM2540C	10/01/13	mg/L	< 5.0 U	
Chloride	SM4500-CLE	10/08/13	mg/L	< 1.0 U	FB

FB Filtration Blank

STANDARD REFERENCE RESULTS-CONVENTIONALS
XH33-Friedman and Bruya, Inc



Matrix: Water
Data Release Authorized: 
Reported: 10/09/13

Project: NA
Event: 309475
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Method	Date	Units	SRM	True Value	Recovery
Chloride ERA #411010	SM4500-CLE	10/08/13	mg/L	4.9	5.0	98.0%

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

November 21, 2013

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

Dear Mr. Staton:

Included are the amended results from the testing of material submitted on September 30, 2013 from the 8th Avenue Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309543 project. The arsenic and selenium results for sample ENW-14D-093013 have been flagged.

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
Chemist

Enclosures
SLR1105R.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

November 5, 2013

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

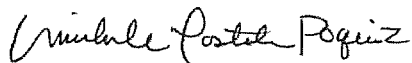
Dear Mr. Staton:

Included are the results from the testing of material submitted on September 30, 2013 from the 8th Avenue Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309543 project. There are 84 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
Chemist

Enclosures
SLR1105R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 30, 2013 by Friedman & Bruya, Inc. from the SLR International Corp. 8th Avenue Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309543 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
309543-01	CMW-5-093013
309543-02	DMW-2-093013
309543-03	EMW-9S-093013
309543-04	CMW-3-093013
309543-05	EMW-1S-093013
309543-06	EMW-14D-093013
309543-07	EMW-11S-093013
309543-08	DMW-3-093013
309543-09	TB-093013

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.

Volatile Compounds by EPA Method 8260C

The trip blank sample was received with incorrect preservation for the 8260 analysis of vinyl chloride. In addition, only preserved vials were available for the dilution of the sample DMW-3-093013, therefore vinyl chloride was analyzed with incorrect preservation. The results should be considered estimates.

The presence of methylene chloride in the trip blank sample is likely due to laboratory contamination. The result has been flagged accordingly.

The percent recovery for the matrix spike (MS), laboratory control sample (LCS), and laboratory control sample duplicate (LCSD) failed high for bromomethane. This analyte was not identified in the samples, therefore the results are valid.

Semivolatile Organic Compounds by EPA Method 8270D

The samples DMW-2-093013 and DMW-3-093013 were diluted due to matrix interferences. The reporting limits have been raised accordingly.

The calibration result for 4,6-dinitro-2-methylphenol fell outside of acceptance criteria for the samples DMW-2-093013, EMW-9S-093013, EMW-11S-093013 and DMW-3-093013. The values reported are estimates.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

The presence of bis(2-ethylhexyl) phthalate in the samples DMW-2-093013, EMW-9S-093013, CMW-3-093013, EMW-11S-093013, and the method blank is likely due to laboratory contamination. The results have been flagged accordingly.

The relative percent difference (RPD) for the LCS/LCSD failed high for 2,4-dimethylphenol and 2,4-dinitrophenol. These analytes were not identified in the samples, therefore the results are valid.

Semivolatile Organic Compounds by EPA Method 8270D SIM

The samples DMW-2-093013 and DMW-3-093013 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

Compounds in the sample matrix interfered with the quantitation of arsenic and selenium. The results have been flagged accordingly.

The internal standard associated with several analytes exceeded acceptance criteria for the samples CMW-3-093013 and EMW-14D-093013. The samples were diluted and reanalyzed. The results for the full strength and the dilution analyses are included.

Dissolved Metals by EPA Method 200.8

Arsenic, selenium and copper were not reported. Please see the report issued by Applied Speciation and Consulting (ASC) for results for these analytes.

The internal standard associated with several analytes exceeded acceptance criteria for the samples CMW-3-093013 and EMW-14D-093013. The samples were diluted and reanalyzed. The results for the full strength and the dilution analyses are included.

Total Mercury by EPA Method 1631E

The reporting limit was raised due to potential low level laboratory contamination.

Dissolved Mercury by EPA Method 1631E

The reporting limit was raised due to potential low level laboratory contamination.

Total Suspended Solids by Method 2540D

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Total Dissolved Solids by Method 2540C

The samples were sent to Analytical Resources, Inc. (ARI) for analysis. The report generated by ARI is enclosed.

Chloride by Method SM4500

The samples were sent to ARI for analysis. The report generated by ARI is enclosed.

Dissolved Metals by ICP-DRC-MS

The samples were sent to Applied Speciation and Consulting (ASC) for analysis. The report generated by ASC is enclosed.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/05/13

Date Received: 09/30/13

Project: 8th Avenue Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309543

Date Extracted: 10/07/13

Date Analyzed: 10/07/13

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

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 51-134)
CMW-5-093013 309543-01	<12	80
DMW-2-093013 309543-02	32	84
EMW-9S-093013 309543-03	<12	78
CMW-3-093013 309543-04	<12	78
EMW-1S-093013 309543-05	<12	80
EMW-14D-093013 309543-06	<12	77
EMW-11S-093013 309543-07	<12	77
DMW-3-093013 309543-08	710	87
Method Blank 03-1960 MB	<12	76

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/05/13

Date Received: 09/30/13

Project: 8th Avenue Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309543

Date Extracted: 10/03/13

Date Analyzed: 10/11/13

**RESULTS FROM THE ANALYSIS OF WATER 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 as ug/L (ppb)**

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> (% Recovery) (Limit 51-134)
CMW-5-093013 309543-01	<6.9	<52	91
DMW-2-093013 309543-02	100 x	<52	92
EMW-9S-093013 309543-03	<6.9	<52	98
CMW-3-093013 309543-04	<6.9	<52	93
EMW-1S-093013 309543-05	<6.9	<52	97
EMW-14D-093013 309543-06	<6.9	<52	80
EMW-11S-093013 309543-07	<6.9	<52	110
DMW-3-093013 309543-08	2,500 x	<52	94
Method Blank 03-1982 MB	<6.9	<52	84

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	CMW-5-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	309543-01
Date Analyzed:	10/07/13	Data File:	100727.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	99	50	150
4-Bromofluorobenzene	100	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	0.57	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 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
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:	DMW-2-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	309543-02
Date Analyzed:	10/07/13	Data File:	100729.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	101	50	150
4-Bromofluorobenzene	99	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	0.30	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	0.26
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 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
Toluene	0.15	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	3.5
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:	EMW-9S-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	309543-03
Date Analyzed:	10/07/13	Data File:	100730.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	100	50	150
4-Bromofluorobenzene	100	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	0.25	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 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
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:	CMW-3-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	309543-04
Date Analyzed:	10/07/13	Data File:	100731.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	99	50	150
4-Bromofluorobenzene	99	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 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
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:	EMW-1S-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	309543-05
Date Analyzed:	10/07/13	Data File:	100732.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	100	50	150
4-Bromofluorobenzene	100	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 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
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:	EMW-14D-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	309543-06
Date Analyzed:	10/07/13	Data File:	100733.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	102	50	150
4-Bromofluorobenzene	102	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 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
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:	EMW-11S-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	309543-07
Date Analyzed:	10/07/13	Data File:	100734.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	101	50	150
4-Bromofluorobenzene	101	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 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
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:	DMW-3-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	309543-08
Date Analyzed:	10/07/13	Data File:	100735.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	98	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	0.35
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	0.33
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	0.71	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	0.25
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	1.5
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	0.24
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
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	620 ve
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:	DMW-3-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	309543-08 1/10
Date Analyzed:	10/08/13	Data File:	100832.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	101	50	150
4-Bromofluorobenzene	102	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1.6	1,3-Dichloropropane	<2
Chloromethane	<2.2	Tetrachloroethene	<2.8
Vinyl chloride	<1.3 pr	Dibromochloromethane	<2.4
Bromomethane	<2	1,2-Dibromoethane (EDB)	<2.4
Chloroethane	<1.8	Chlorobenzene	<1
Trichlorofluoromethane	<1.7	Ethylbenzene	<1.6
Acetone	<26	1,1,1,2-Tetrachloroethane	<3.2
1,1-Dichloroethene	<1.9	m,p-Xylene	<5
Methylene chloride	<30	o-Xylene	<2.2
Methyl t-butyl ether (MTBE)	<1.3	Styrene	<2.2
trans-1,2-Dichloroethene	<2.4	Isopropylbenzene	<1.5
1,1-Dichloroethane	<1.8	Bromoform	<2.2
2,2-Dichloropropane	<3	n-Propylbenzene	<1.4
cis-1,2-Dichloroethene	<2.4	Bromobenzene	<1.8
Chloroform	<2.4	1,3,5-Trimethylbenzene	<1.8
2-Butanone (MEK)	<9.4	1,1,2,2-Tetrachloroethane	<2.4
1,2-Dichloroethane (EDC)	<1.1	1,2,3-Trichloropropane	<2.8
1,1,1-Trichloroethane	<2	2-Chlorotoluene	<1.3
1,1-Dichloropropene	<2.6	4-Chlorotoluene	<1.6
Carbon tetrachloride	<2.4	tert-Butylbenzene	<1.5
Benzene	<1.3	1,2,4-Trimethylbenzene	2.2
Trichloroethene	<1.7	sec-Butylbenzene	<1.2
1,2-Dichloropropane	<3.2	p-Isopropyltoluene	<1.5
Bromodichloromethane	<3.8	1,3-Dichlorobenzene	<1.5
Dibromomethane	<2.8	1,4-Dichlorobenzene	<0.94 j
4-Methyl-2-pentanone	<13	1,2-Dichlorobenzene	<1.3
cis-1,3-Dichloropropene	<2	1,2-Dibromo-3-chloropropane	<4.4 j
Toluene	<1.3	1,2,4-Trichlorobenzene	<3.4
trans-1,3-Dichloropropene	<3.4	Hexachlorobutadiene	<4.6
1,1,2-Trichloroethane	<2.8	Naphthalene	660
2-Hexanone	<10	1,2,3-Trichlorobenzene	<3.8

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	TB-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	309543-09
Date Analyzed:	10/07/13	Data File:	100728.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	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	8.6 lc	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 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
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 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	03-1992 mb
Date Analyzed:	10/07/13	Data File:	100726.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	99	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 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
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 Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	CMW-5-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	309543-01
Date Analyzed:	10/04/13	Data File:	100408.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	41	32	162
Phenol-d6	29	10	170
Nitrobenzene-d5	99	50	150
2-Fluorobiphenyl	96	43	158
2,4,6-Tribromophenol	117	43	146
Terphenyl-d14	94	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	<0.17
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	DMW-2-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	309543-02
Date Analyzed:	10/07/13	Data File:	100704.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	54	32	162
Phenol-d6	37	10	170
Nitrobenzene-d5	106	50	150
2-Fluorobiphenyl	103	43	158
2,4,6-Tribromophenol	135	43	146
Terphenyl-d14	111	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	0.18	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	2.0
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38 ca
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	3.4
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.17 fb
2-Methylnaphthalene	16 ve	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID: DMW-2-093013	Client: SLR International Corp.
Date Received: 09/30/13	Project: Crowley 101.00205.00030
Date Extracted: 10/03/13	Lab ID: 309543-02 1/10
Date Analyzed: 10/07/13	Data File: 100709.D
Matrix: Water	Instrument: GCMS8
Units: ug/L (ppb)	Operator: VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	57 ds	32	162
Phenol-d6	31 ds	10	170
Nitrobenzene-d5	90 ds	50	150
2-Fluorobiphenyl	100 ds	43	158
2,4,6-Tribromophenol	111 ds	43	146
Terphenyl-d14	137 ds	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<1.4	2,4,6-Trichlorophenol	<2.8
Bis(2-chloroethyl) ether	<0.6	2,4,5-Trichlorophenol	<2.2
2-Chlorophenol	<1.6	2-Chloronaphthalene	<0.44
1,3-Dichlorobenzene	<0.34	2-Nitroaniline	<0.86
1,4-Dichlorobenzene	<0.34	Dimethyl phthalate	<0.5
1,2-Dichlorobenzene	<0.24	2,6-Dinitrotoluene	<0.62
Benzyl alcohol	<4	3-Nitroaniline	<4.6
Bis(2-chloroisopropyl) ether	<0.3	2,4-Dinitrophenol	<24
2-Methylphenol	<2.6	Dibenzofuran	1.9
Hexachloroethane	<0.6	2,4-Dinitrotoluene	<0.56
N-Nitroso-di-n-propylamine	<1.1	4-Nitrophenol	<13
3-Methylphenol + 4-Methylphenol	<4.2	Diethyl phthalate	<0.6
Nitrobenzene	<0.44	4-Chlorophenyl phenyl ether	<0.72
Isophorone	<0.3	N-Nitrosodiphenylamine	<0.5
2-Nitrophenol	<1.7	4-Nitroaniline	<5.6
2,4-Dimethylphenol	<2.8	4,6-Dinitro-2-methylphenol	<3.8 ca
Benzoic acid	<140	4-Bromophenyl phenyl ether	<0.56
Bis(2-chloroethoxy)methane	<0.34	Hexachlorobenzene	<0.5
2,4-Dichlorophenol	<2.6	Pentachlorophenol	<3.2
1,2,4-Trichlorobenzene	<0.5	Carbazole	3.2
Hexachlorobutadiene	<0.7	Di-n-butyl phthalate	<0.68
4-Chloroaniline	<0.56	Benzyl butyl phthalate	<0.86
4-Chloro-3-methylphenol	<2.4	Bis(2-ethylhexyl) phthalate	<1.7
2-Methylnaphthalene	14	Di-n-octyl phthalate	<0.44
Hexachlorocyclopentadiene	<0.94		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID: EMW-9S-093013	Client: SLR International Corp.
Date Received: 09/30/13	Project: Crowley 101.00205.00030
Date Extracted: 10/03/13	Lab ID: 309543-03
Date Analyzed: 10/07/13	Data File: 100710.D
Matrix: Water	Instrument: GCMS8
Units: ug/L (ppb)	Operator: VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	52	32	162
Phenol-d6	32	10	170
Nitrobenzene-d5	95	50	150
2-Fluorobiphenyl	99	43	158
2,4,6-Tribromophenol	125	43	146
Terphenyl-d14	109	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	0.077
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38 ca
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	0.18
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.17 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	CMW-3-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	309543-04
Date Analyzed:	10/04/13	Data File:	100410.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	54	32	162
Phenol-d6	38	10	170
Nitrobenzene-d5	96	50	150
2-Fluorobiphenyl	97	43	158
2,4,6-Tribromophenol	114	43	146
Terphenyl-d14	99	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	0.24	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.28 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-1S-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	309543-05
Date Analyzed:	10/04/13	Data File:	100411.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	41	32	162
Phenol-d6	28	10	170
Nitrobenzene-d5	94	50	150
2-Fluorobiphenyl	92	43	158
2,4,6-Tribromophenol	115	43	146
Terphenyl-d14	82	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	<0.17
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-14D-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	309543-06
Date Analyzed:	10/04/13	Data File:	100412.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	50	32	162
Phenol-d6	36	10	170
Nitrobenzene-d5	85	50	150
2-Fluorobiphenyl	85	43	158
2,4,6-Tribromophenol	79	43	146
Terphenyl-d14	85	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	<0.17
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID: EMW-11S-093013	Client: SLR International Corp.
Date Received: 09/30/13	Project: Crowley 101.00205.00030
Date Extracted: 10/03/13	Lab ID: 309543-07
Date Analyzed: 10/07/13	Data File: 100711.D
Matrix: Water	Instrument: GCMS8
Units: ug/L (ppb)	Operator: VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	58	32	162
Phenol-d6	32	10	170
Nitrobenzene-d5	101	50	150
2-Fluorobiphenyl	99	43	158
2,4,6-Tribromophenol	118	43	146
Terphenyl-d14	116	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	0.38	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38 ca
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.20 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	DMW-3-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	309543-08 1/100
Date Analyzed:	10/07/13	Data File:	100706.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	60 ds	32	162
Phenol-d6	33 ds	10	170
Nitrobenzene-d5	80 ds	50	150
2-Fluorobiphenyl	100 ds	43	158
2,4,6-Tribromophenol	100 ds	43	146
Terphenyl-d14	100 ds	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<14	2,4,6-Trichlorophenol	<28
Bis(2-chloroethyl) ether	<6	2,4,5-Trichlorophenol	<22
2-Chlorophenol	<16	2-Chloronaphthalene	<4.4
1,3-Dichlorobenzene	<3.4	2-Nitroaniline	<8.6
1,4-Dichlorobenzene	<3.4	Dimethyl phthalate	<5
1,2-Dichlorobenzene	<2.4	2,6-Dinitrotoluene	<6.2
Benzyl alcohol	<40	3-Nitroaniline	<46
Bis(2-chloroisopropyl) ether	<3	2,4-Dinitrophenol	<240
2-Methylphenol	<26	Dibenzofuran	97
Hexachloroethane	<6	2,4-Dinitrotoluene	<5.6
N-Nitroso-di-n-propylamine	<11	4-Nitrophenol	<130
3-Methylphenol + 4-Methylphenol	<42	Diethyl phthalate	<6
Nitrobenzene	<4.4	4-Chlorophenyl phenyl ether	<7.2
Isophorone	<3	N-Nitrosodiphenylamine	<5
2-Nitrophenol	<17	4-Nitroaniline	<56
2,4-Dimethylphenol	<28	4,6-Dinitro-2-methylphenol	<38 ca
Benzoic acid	<1,400	4-Bromophenyl phenyl ether	<5.6
Bis(2-chloroethoxy)methane	<3.4	Hexachlorobenzene	<5
2,4-Dichlorophenol	<26	Pentachlorophenol	<32
1,2,4-Trichlorobenzene	<5	Carbazole	66
Hexachlorobutadiene	<7	Di-n-butyl phthalate	<6.8
4-Chloroaniline	<5.6	Benzyl butyl phthalate	<8.6
4-Chloro-3-methylphenol	<24	Bis(2-ethylhexyl) phthalate	<17
2-Methylnaphthalene	190	Di-n-octyl phthalate	<4.4
Hexachlorocyclopentadiene	<9.4		

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 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	03-1980 mb
Date Analyzed:	10/04/13	Data File:	100407.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	44	32	162
Phenol-d6	30	10	170
Nitrobenzene-d5	96	50	150
2-Fluorobiphenyl	100	43	158
2,4,6-Tribromophenol	118	43	146
Terphenyl-d14	119	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.19 Ic
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	CMW-5-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	309543-01
Date Analyzed:	10/04/13	Data File:	100404.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	82	50	150
Benzo(a)anthracene-d12	96	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.0064
Acenaphthylene	<0.0024
Acenaphthene	0.033
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	0.0069
Fluoranthene	<0.0046
Pyrene	0.0063
Benzo(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	DMW-2-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	309543-02
Date Analyzed:	10/05/13	Data File:	100430.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	106	50	150
Benzo(a)anthracene-d12	122	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	3.0 ve
Acenaphthylene	0.17
Acenaphthene	13 ve
Fluorene	4.7 ve
Phenanthrene	4.4 ve
Anthracene	0.33
Fluoranthene	0.25
Pyrene	0.15
Benz(a)anthracene	0.0054
Chrysene	0.0070
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	0.0088
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	0.0054

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	DMW-2-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	309543-02 1/100
Date Analyzed:	10/07/13	Data File:	100707.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	266 ds	50	150
Benzo(a)anthracene-d12	84 ds	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	3.6
Acenaphthylene	<0.24
Acenaphthene	17
Fluorene	4.8
Phenanthrene	5.3
Anthracene	0.29
Fluoranthene	<0.46
Pyrene	<0.36
Benz(a)anthracene	<0.42
Chrysene	<0.38
Benzo(a)pyrene	<0.78
Benzo(b)fluoranthene	<0.52
Benzo(k)fluoranthene	<0.76
Indeno(1,2,3-cd)pyrene	<0.7
Dibenz(a,h)anthracene	<0.4
Benzo(g,h,i)perylene	<0.44

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ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-9S-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	309543-03
Date Analyzed:	10/04/13	Data File:	100405.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	85	50	150
Benzo(a)anthracene-d12	93	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.013
Acenaphthylene	<0.0024
Acenaphthene	0.030
Fluorene	0.059
Phenanthrene	0.15
Anthracene	0.25
Fluoranthene	0.086
Pyrene	0.079
Benz(a)anthracene	0.013
Chrysene	0.022
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	0.0066
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	CMW-3-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	309543-04
Date Analyzed:	10/04/13	Data File:	100415.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	101	50	150
Benzo(a)anthracene-d12	116	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.004
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	<0.0028
Fluoranthene	<0.0046
Pyrene	0.0042
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-1S-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	309543-05
Date Analyzed:	10/04/13	Data File:	100416.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	105	50	150
Benzo(a)anthracene-d12	126	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.0050
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	0.010
Anthracene	0.0043
Fluoranthene	0.0055
Pyrene	0.0048
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

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ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-14D-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	309543-06
Date Analyzed:	10/04/13	Data File:	100417.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	97	50	150
Benzo(a)anthracene-d12	108	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.015
Acenaphthylene	<0.0024
Acenaphthene	0.0096
Fluorene	0.0059
Phenanthrene	0.021
Anthracene	0.0065
Fluoranthene	0.012
Pyrene	0.0080
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-11S-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	309543-07
Date Analyzed:	10/04/13	Data File:	100418.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	109	50	150
Benzo(a)anthracene-d12	122	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.012
Acenaphthylene	<0.0024
Acenaphthene	0.068
Fluorene	0.0082
Phenanthrene	0.018
Anthracene	0.012
Fluoranthene	0.012
Pyrene	0.011
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	DMW-3-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	309543-08 1/100
Date Analyzed:	10/05/13	Data File:	100431.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

	% Recovery:	Lower Limit:	Upper Limit:
Surrogates:			
Anthracene-d10	573 ds	50	150
Benzo(a)anthracene-d12	153 ds	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	430 ve
Acenaphthylene	4.1
Acenaphthene	250
Fluorene	140
Phenanthrene	140
Anthracene	13
Fluoranthene	11
Pyrene	7.5
Benz(a)anthracene	<0.42
Chrysene	<0.38
Benzo(a)pyrene	<0.78
Benzo(b)fluoranthene	<0.52
Benzo(k)fluoranthene	<0.76
Indeno(1,2,3-cd)pyrene	<0.7
Dibenz(a,h)anthracene	<0.4
Benzo(g,h,i)perylene	<0.44

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	DMW-3-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	309543-08 1/1000
Date Analyzed:	10/07/13	Data File:	100708.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	1320 ds	50	150
Benzo(a)anthracene-d12	120 ds	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	470
Acenaphthylene	4.1
Acenaphthene	280
Fluorene	140
Phenanthrene	160
Anthracene	12
Fluoranthene	10
Pyrene	7.1
Benz(a)anthracene	<4.2
Chrysene	<3.8
Benzo(a)pyrene	<7.8
Benzo(b)fluoranthene	<5.2
Benzo(k)fluoranthene	<7.6
Indeno(1,2,3-cd)pyrene	<7
Dibenz(a,h)anthracene	<4
Benzo(g,h,i)perylene	<4.4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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:	10/03/13	Lab ID:	03-1981 mb
Date Analyzed:	10/04/13	Data File:	100403.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	101	50	150
Benzo(a)anthracene-d12	109	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.004
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	<0.0028
Fluoranthene	<0.0046
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	CMW-5-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/04/13	Lab ID:	309543-01 1/0.25
Date Analyzed:	10/17/13	Data File:	101670.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	MCP

Surrogates:	% Recovery:	Lower	Upper
TCMX	97	Limit:	Limit:
		50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

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ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	DMW-2-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/04/13	Lab ID:	309543-02 1/0.25
Date Analyzed:	10/17/13	Data File:	101672.D\NECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	MCP

Surrogates:	% Recovery:	Lower	Upper
TCMX	109	Limit:	Limit:
		50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EMW-9S-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/04/13	Lab ID:	309543-03 1/0.25
Date Analyzed:	10/17/13	Data File:	101674.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	MCP

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	108	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	CMW-3-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/04/13	Lab ID:	309543-04 1/0.25
Date Analyzed:	10/18/13	Data File:	101750.D\NECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	KJ

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	82	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EMW-1S-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/04/13	Lab ID:	309543-05 1/0.25
Date Analyzed:	10/18/13	Data File:	101752.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	KJ

Surrogates:	% Recovery:	Lower	Upper
TCMX	89	Limit:	Limit:
		50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EMW-14D-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/04/13	Lab ID:	309543-06 1/0.25
Date Analyzed:	10/18/13	Data File:	101754.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	KJ

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

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EMW-11S-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/04/13	Lab ID:	309543-07 1/0.25
Date Analyzed:	10/18/13	Data File:	101756.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	KJ

Surrogates:	% Recovery:	Lower	Upper
TCMX	93	Limit:	Limit:
		50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	DMW-3-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/04/13	Lab ID:	309543-08 1/0.25
Date Analyzed:	10/18/13	Data File:	58.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	KJ

Surrogates:	% Recovery:	Lower	Upper
TCMX	112	Limit:	Limit:
		50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley 101.00205.00030
Date Extracted:	10/04/13	Lab ID:	03-1990 mb 1/0.25
Date Analyzed:	10/17/13	Data File:	101664.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	MCP

Surrogates:	% Recovery:	Lower	Upper
TCMX	115	Limit:	Limit:
		50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	CMW-5-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	309543-01
Date Analyzed:	10/10/13	Data File:	309543-01.074
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	104	60	125
Indium	91	60	125
Holmium	97	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.90
Nickel	1.57
Copper	<0.340
Zinc	<0.600
Arsenic	68.9 ip
Selenium	2.22 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.155
Barium	25.1
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	DMW-2-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	309543-02
Date Analyzed:	10/10/13	Data File:	309543-02.067
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	101	60	125
Indium	89	60	125
Holmium	91	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	2.04
Nickel	1.00
Copper	<0.340
Zinc	3.14
Arsenic	4.74 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.0610
Barium	11.1
Thallium	<0.0740
Lead	0.757

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-9S-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	309543-03
Date Analyzed:	10/10/13	Data File:	309543-03.072
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	102	60	125
Indium	92	60	125
Holmium	95	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.40
Nickel	0.768
Copper	<0.340
Zinc	2.05
Arsenic	17.5 ip
Selenium	0.964 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.316
Barium	56.6
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	CMW-3-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	309543-04
Date Analyzed:	10/10/13	Data File:	309543-04.073
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	58 vo	60	125
Indium	55 vo	60	125
Holmium	55 vo	60	125

Analyte:	Concentration ug/L (ppb)
Cadmium	<0.0940 J
Thallium	<0.0740 J
Lead	0.622 J

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ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	CMW-3-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	309543-04 x10
Date Analyzed:	10/10/13	Data File:	309543-04 x10.050
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	87	60	125
Indium	88	60	125
Holmium	94	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	2.45
Nickel	5.89
Copper	7.17
Zinc	<6.00
Arsenic	26.6 ip
Selenium	60.3 ip
Silver	<0.640
Cadmium	<0.940
Antimony	5.52
Barium	269
Thallium	<0.740
Lead	<1.44

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-1S-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	309543-05
Date Analyzed:	10/10/13	Data File:	309543-05.069
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	123	60	125
Indium	92	60	125
Holmium	91	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.13
Nickel	1.11
Copper	<0.340
Zinc	4.49
Arsenic	14.3 ip
Selenium	0.583 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.140
Barium	30.3
Thallium	<0.0740
Lead	0.371

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-14D-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	309543-06
Date Analyzed:	10/10/13	Data File:	309543-06.070
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	72	60	125
Indium	58 vo	60	125
Holmium	59 vo	60	125

Analyte:	Concentration ug/L (ppb)
Cadmium	<0.0940 J
Antimony	0.145 J
Thallium	<0.0740 J
Lead	<0.144 J

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-14D-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	309543-06 x10
Date Analyzed:	10/10/13	Data File:	309543-06 x10.052
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	92	60	125
Indium	90	60	125
Holmium	95	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	<1.38
Nickel	<4.60
Copper	5.19
Zinc	<6.00
Arsenic	13.8 ip
Selenium	53.8 ip
Silver	<0.640
Cadmium	<0.940
Antimony	<0.520
Barium	253
Thallium	<0.740
Lead	<1.44

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-11S-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	309543-07
Date Analyzed:	10/10/13	Data File:	309543-07.068
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	102	60	125
Indium	92	60	125
Holmium	94	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.69
Nickel	3.82
Copper	3.59
Zinc	21.5
Arsenic	4.38 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.440
Barium	469
Thallium	<0.0740
Lead	3.00

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	DMW-3-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	309543-08
Date Analyzed:	10/10/13	Data File:	309543-08.043
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	109	60	125
Indium	96	60	125
Holmium	102	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.26
Nickel	0.728
Copper	<0.340
Zinc	<0.600
Arsenic	5.31 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.0730
Barium	12.6
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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:	10/07/13	Lab ID:	I3-646 mb
Date Analyzed:	10/10/13	Data File:	I3-646 mb.011
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	99	60	125
Indium	100	60	125
Holmium	97	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	<0.138
Nickel	<0.460
Copper	<0.340
Zinc	<0.600
Arsenic	<0.150
Selenium	<0.560
Silver	<0.0640
Cadmium	<0.0940
Antimony	<0.0520
Barium	<0.260
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	CMW-5-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	309543-01
Date Analyzed:	10/09/13	Data File:	309543-01.073
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	110	60	125
Indium	94	60	125
Holmium	97	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.77
Nickel	1.70
Zinc	1.20
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.169
Barium	23.2
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	DMW-2-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	309543-02
Date Analyzed:	10/09/13	Data File:	309543-02.064
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	108	60	125
Indium	99	60	125
Holmium	100	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	2.11
Nickel	1.26
Zinc	3.52
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.742
Barium	10.7
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-9S-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	309543-03
Date Analyzed:	10/09/13	Data File:	309543-03.071
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	104	60	125
Indium	93	60	125
Holmium	96	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.58
Nickel	0.936
Zinc	4.25
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.338
Barium	58.7
Thallium	<0.0740
Lead	<0.144

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ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	CMW-3-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	309543-04
Date Analyzed:	10/09/13	Data File:	309543-04.072
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	58 vo	60	125
Indium	52 vo	60	125
Holmium	55 vo	60	125

Analyte:	Concentration ug/L (ppb)
Cadmium	<0.0940 J
Thallium	<0.0740 J
Lead	<0.144 J

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	CMW-3-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	309543-04 x10
Date Analyzed:	10/09/13	Data File:	309543-04 x10.018
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	94	60	125
Indium	92	60	125
Holmium	93	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	3.56
Nickel	5.82
Zinc	<6.00
Silver	<0.640
Cadmium	<0.940
Antimony	5.24
Barium	270
Thallium	<0.740
Lead	<1.44

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-1S-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	309543-05
Date Analyzed:	10/09/13	Data File:	309543-05.086
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	115	60	125
Indium	83	60	125
Holmium	86	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.924
Nickel	1.09
Zinc	4.25
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.124
Barium	25.6
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-14D-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	309543-06
Date Analyzed:	10/09/13	Data File:	309543-06.070
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	73	60	125
Indium	56 vo	60	125
Holmium	58 vo	60	125

Analyte:	Concentration ug/L (ppb)
Cadmium	<0.0940 J
Antimony	0.240 J
Thallium	<0.0740 J
Lead	<0.144 J

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-14D-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	309543-06 x10
Date Analyzed:	10/09/13	Data File:	309543-06 x10.020
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	98	60	125
Indium	92	60	125
Holmium	96	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	2.50
Nickel	5.54
Zinc	<6.00
Silver	<0.640
Cadmium	<0.940
Antimony	<0.520
Barium	253
Thallium	<0.740
Lead	<1.44

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-11S-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	309543-07
Date Analyzed:	10/09/13	Data File:	309543-07.065
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	110	60	125
Indium	101	60	125
Holmium	103	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.16
Nickel	4.32
Zinc	15.6
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.809
Barium	242
Thallium	<0.0740
Lead	0.201

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	DMW-3-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	309543-08
Date Analyzed:	10/09/13	Data File:	309543-08.066
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	121	60	125
Indium	100	60	125
Holmium	103	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.18
Nickel	0.941
Zinc	1.79
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.179
Barium	12.5
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved 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:	10/07/13	Lab ID:	I3-647 mb
Date Analyzed:	10/09/13	Data File:	I3-647 mb.011
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	99	60	125
Indium	97	60	125
Holmium	98	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	<0.138
Nickel	<0.460
Zinc	<0.600
Silver	<0.0640
Cadmium	<0.0940
Antimony	<0.0520
Barium	<0.260
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/05/13

Date Received: 09/30/13

Project: 8th Avenue Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309543

Date Extracted: 10/07/13

Date Analyzed: 10/08/13

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

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Total Mercury</u>
CMW-5-093013 309543-01	0.0015
DMW-2-093013 309543-02	<0.0015
EMW-9S-093013 309543-03	<0.0015
CMW-3-093013 309543-04	0.0027
EMW-1S-093013 309543-05	<0.0015
EMW-14D-093013 309543-06	<0.0015
EMW-11S-093013 309543-07	0.012
DMW-3-093013 309543-08	<0.0015
Method Blank	<0.0015

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/05/13

Date Received: 09/30/13

Project: 8th Avenue Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309543

Date Extracted: 10/07/13

Date Analyzed: 10/08/13

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR DISSOLVED MERCURY
USING EPA METHOD 1631E**

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Dissolved Mercury</u>
CMW-5-093013 309543-01	<0.0015
DMW-2-093013 309543-02	<0.0015
EMW-9S-093013 309543-03	<0.0015
CMW-3-093013 309543-04	0.0021
EMW-1S-093013 309543-05	<0.0015
EMW-14D-093013 309543-06	<0.0015
EMW-11S-093013 309543-07	0.0059
DMW-3-093013 309543-08	<0.0015
Method Blank	<0.0015

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/05/13

Date Received: 09/30/13

Project: 8th Avenue Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309543

Date Extracted: NA

Date Analyzed: 10/03/13

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL SUSPENDED SOLIDS
BY METHOD 2540D**

Results Reported as mg/L (ppm)

<u>Sample ID</u> Laboratory ID	Total Suspended <u>Solids</u>
CMW-5-093013 309543-01	43
DMW-2-093013 309543-02	<9.7
EMW-9S-093013 309543-03	<9.7
CMW-3-093013 309543-04	<9.7
EMW-1S-093013 309543-05	17
EMW-14D-093013 309543-06	36
EMW-11S-093013 309543-07	28
DMW-3-093013 309543-08	16
Method Blank	<9.7

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/05/13

Date Received: 09/30/13

Project: 8th Avenue Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309543

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TPH AS GASOLINE
USING METHOD NWTPH-Gx**

Laboratory Code: 309543-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Gasoline	ug/L (ppb)	<12	<12	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	ug/L (ppb)	1,000	102	69-134

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/05/13

Date Received: 09/30/13

Project: 8th Avenue Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309543

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

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	500	87	91	58-134	4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/05/13

Date Received: 09/30/13

Project: 8th Avenue Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309543

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

Laboratory Code: 309543-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent	
				Recovery MS	Acceptance Criteria
Dichlorodifluoromethane	ug/L (ppb)	50	<0.16	94	55-144
Chloromethane	ug/L (ppb)	50	<0.22	95	67-131
Vinyl chloride	ug/L (ppb)	50	0.57	96	61-139
Bromomethane	ug/L (ppb)	50	<0.2	226 vo	66-129
Chloroethane	ug/L (ppb)	50	<0.18	99	68-126
Trichlorofluoromethane	ug/L (ppb)	50	<0.17	97	71-128
Acetone	ug/L (ppb)	250	<2.6	79	48-149
1,1-Dichloroethene	ug/L (ppb)	50	<0.19	93	71-123
Methylene chloride	ug/L (ppb)	50	<3	100	61-126
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	<0.13	95	68-125
trans-1,2-Dichloroethene	ug/L (ppb)	50	<0.24	93	72-122
1,1-Dichloroethane	ug/L (ppb)	50	<0.18	94	79-113
2,2-Dichloropropane	ug/L (ppb)	50	<0.3	104	58-132
cis-1,2-Dichloroethene	ug/L (ppb)	50	<0.24	89	73-119
Chloroform	ug/L (ppb)	50	<0.24	93	80-112
2-Butanone (MEK)	ug/L (ppb)	250	<0.94	86	69-123
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<0.11	93	78-113
1,1,1-Trichloroethane	ug/L (ppb)	50	<0.2	97	79-116
1,1-Dichloropropene	ug/L (ppb)	50	<0.26	94	67-121
Carbon tetrachloride	ug/L (ppb)	50	<0.24	101	72-123
Benzene	ug/L (ppb)	50	<0.13	91	79-109
Trichloroethene	ug/L (ppb)	50	<0.17	90	75-109
1,2-Dichloropropane	ug/L (ppb)	50	<0.32	95	80-111
Bromodichloromethane	ug/L (ppb)	50	<0.38	97	78-117
Dibromomethane	ug/L (ppb)	50	<0.28	93	80-112
4-Methyl-2-pentanone	ug/L (ppb)	250	<1.3	109	79-123
cis-1,3-Dichloropropene	ug/L (ppb)	50	<0.2	103	76-120
Toluene	ug/L (ppb)	50	<0.13	91	73-117
trans-1,3-Dichloropropene	ug/L (ppb)	50	<0.34	107	75-122
1,1,2-Trichloroethane	ug/L (ppb)	50	<0.28	99	81-111
2-Hexanone	ug/L (ppb)	250	<1	99	75-126
1,3-Dichloropropane	ug/L (ppb)	50	<0.2	95	81-111
Tetrachloroethene	ug/L (ppb)	50	<0.28	94	72-113
Dibromochloromethane	ug/L (ppb)	50	<0.24	104	69-129
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	<0.24	99	83-114
Chlorobenzene	ug/L (ppb)	50	<0.1	90	75-115
Ethylbenzene	ug/L (ppb)	50	<0.16	95	71-120
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	<0.32	101	78-122
m,p-Xylene	ug/L (ppb)	100	<0.5	94	63-128
o-Xylene	ug/L (ppb)	50	<0.22	96	64-129
Styrene	ug/L (ppb)	50	<0.22	97	70-122
Isopropylbenzene	ug/L (ppb)	50	<0.15	96	76-118
Bromoform	ug/L (ppb)	50	<0.22	110	49-138
n-Propylbenzene	ug/L (ppb)	50	<0.14	95	74-117
Bromobenzene	ug/L (ppb)	50	<0.18	95	70-121
1,3,5-Trimethylbenzene	ug/L (ppb)	50	<0.18	96	81-112
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	<0.24	97	79-120
1,2,3-Trichloropropane	ug/L (ppb)	50	<0.28	94	72-119
2-Chlorotoluene	ug/L (ppb)	50	<0.13	93	77-114
4-Chlorotoluene	ug/L (ppb)	50	<0.16	93	81-109
tert-Butylbenzene	ug/L (ppb)	50	<0.15	98	81-116
1,2,4-Trimethylbenzene	ug/L (ppb)	50	<0.11	95	74-118
sec-Butylbenzene	ug/L (ppb)	50	<0.12	97	77-118
p-Isopropyltoluene	ug/L (ppb)	50	<0.15	95	64-132
1,3-Dichlorobenzene	ug/L (ppb)	50	<0.15	90	81-111
1,4-Dichlorobenzene	ug/L (ppb)	50	<0.094	87	78-110
1,2-Dichlorobenzene	ug/L (ppb)	50	<0.13	90	81-111
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	<0.44	101	69-129
1,2,4-Trichlorobenzene	ug/L (ppb)	50	<0.34	91	74-115
Hexachlorobutadiene	ug/L (ppb)	50	<0.46	89	67-120
Naphthalene	ug/L (ppb)	50	<0.28	99	63-136
1,2,3-Trichlorobenzene	ug/L (ppb)	50	<0.38	90	79-115

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/05/13

Date Received: 09/30/13

Project: 8th Avenue Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309543

**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	104	107	54-149	3
Chloromethane	ug/L (ppb)	50	100	101	67-133	1
Vinyl chloride	ug/L (ppb)	50	102	103	73-132	1
Bromomethane	ug/L (ppb)	50	270 vo	256 vo	69-123	5
Chloroethane	ug/L (ppb)	50	104	105	68-126	1
Trichlorofluoromethane	ug/L (ppb)	50	105	107	70-132	2
Acetone	ug/L (ppb)	250	102	104	44-145	2
1,1-Dichloroethene	ug/L (ppb)	50	102	102	75-119	0
Methylene chloride	ug/L (ppb)	50	106	108	63-132	2
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	103	105	70-122	2
trans-1,2-Dichloroethene	ug/L (ppb)	50	100	102	76-118	2
1,1-Dichloroethane	ug/L (ppb)	50	101	103	80-116	2
2,2-Dichloropropane	ug/L (ppb)	50	111	115	62-141	4
cis-1,2-Dichloroethene	ug/L (ppb)	50	97	98	81-111	1
Chloroform	ug/L (ppb)	50	100	101	81-109	1
2-Butanone (MEK)	ug/L (ppb)	250	97	101	53-140	4
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	99	101	79-109	2
1,1,1-Trichloroethane	ug/L (ppb)	50	104	106	80-116	2
1,1-Dichloropropene	ug/L (ppb)	50	102	104	78-112	2
Carbon tetrachloride	ug/L (ppb)	50	109	111	72-128	2
Benzene	ug/L (ppb)	50	98	99	81-108	1
Trichloroethene	ug/L (ppb)	50	97	100	77-108	3
1,2-Dichloropropane	ug/L (ppb)	50	103	105	82-109	2
Bromodichloromethane	ug/L (ppb)	50	106	108	76-120	2
Dibromomethane	ug/L (ppb)	50	102	104	80-110	2
4-Methyl-2-pentanone	ug/L (ppb)	250	119	121	59-142	2
cis-1,3-Dichloropropene	ug/L (ppb)	50	111	115	76-128	4
Toluene	ug/L (ppb)	50	97	98	83-108	1
trans-1,3-Dichloropropene	ug/L (ppb)	50	113	116	76-128	3
1,1,2-Trichloroethane	ug/L (ppb)	50	107	108	82-110	1
2-Hexanone	ug/L (ppb)	250	107	110	53-145	3
1,3-Dichloropropane	ug/L (ppb)	50	102	103	83-110	1
Tetrachloroethene	ug/L (ppb)	50	102	104	78-109	2
Dibromochloromethane	ug/L (ppb)	50	112	113	63-140	1
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	107	107	85-113	0
Chlorobenzene	ug/L (ppb)	50	97	97	84-108	0
Ethylbenzene	ug/L (ppb)	50	101	102	84-110	1
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	107	108	76-125	1
m,p-Xylene	ug/L (ppb)	100	101	102	84-112	1
o-Xylene	ug/L (ppb)	50	103	103	82-113	0
Styrene	ug/L (ppb)	50	104	105	84-116	1
Isopropylbenzene	ug/L (ppb)	50	102	104	81-122	2
Bromoform	ug/L (ppb)	50	114	115	40-161	1
n-Propylbenzene	ug/L (ppb)	50	103	105	81-115	2
Bromobenzene	ug/L (ppb)	50	103	104	80-113	1
1,3,5-Trimethylbenzene	ug/L (ppb)	50	104	106	83-117	2
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	104	105	79-118	1
1,2,3-Trichloropropane	ug/L (ppb)	50	100	102	74-116	2
2-Chlorotoluene	ug/L (ppb)	50	102	103	79-112	1
4-Chlorotoluene	ug/L (ppb)	50	101	102	81-113	1
tert-Butylbenzene	ug/L (ppb)	50	106	107	81-119	1
1,2,4-Trimethylbenzene	ug/L (ppb)	50	102	104	83-116	2
sec-Butylbenzene	ug/L (ppb)	50	105	107	83-116	2
p-Isopropyltoluene	ug/L (ppb)	50	103	104	82-119	1
1,3-Dichlorobenzene	ug/L (ppb)	50	97	99	83-111	2
1,4-Dichlorobenzene	ug/L (ppb)	50	93	94	82-109	1
1,2-Dichlorobenzene	ug/L (ppb)	50	98	99	83-111	1
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	108	110	62-133	2
1,2,4-Trichlorobenzene	ug/L (ppb)	50	99	101	77-117	2
Hexachlorobutadiene	ug/L (ppb)	50	98	98	74-118	0
Naphthalene	ug/L (ppb)	50	108	109	75-131	1
1,2,3-Trichlorobenzene	ug/L (ppb)	50	99	100	82-115	1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/05/13

Date Received: 09/30/13

Project: 8th Avenue Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309543

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
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	ug/L (ppb)	10	34	40	18-52	16
Bis(2-chloroethyl) ether	ug/L (ppb)	10	87	96	52-113	10
2-Chlorophenol	ug/L (ppb)	10	84	97	50-110	14
1,3-Dichlorobenzene	ug/L (ppb)	10	89	98	45-109	10
1,4-Dichlorobenzene	ug/L (ppb)	10	91	100	44-118	9
1,2-Dichlorobenzene	ug/L (ppb)	10	91	101	46-116	10
Benzyl alcohol	ug/L (ppb)	10	83	92	42-100	10
Bis(2-chloroisopropyl) ether	ug/L (ppb)	10	92	100	51-124	8
2-Methylphenol	ug/L (ppb)	10	75	91	38-100	19
Hexachloroethane	ug/L (ppb)	10	89	99	42-117	11
N-Nitroso-di-n-propylamine	ug/L (ppb)	10	90	102	48-124	12
3-Methylphenol + 4-Methylphenol	ug/L (ppb)	10	69	83	48-87	18
Nitrobenzene	ug/L (ppb)	10	92	100	50-118	8
Isophorone	ug/L (ppb)	10	103	107	55-116	4
2-Nitrophenol	ug/L (ppb)	10	105	113	42-127	7
2,4-Dimethylphenol	ug/L (ppb)	10	66	91	45-100	32 vo
Benzoic acid	ug/L (ppb)	65	27	30	10-46	11
Bis(2-chloroethoxy)methane	ug/L (ppb)	10	98	105	55-115	7
2,4-Dichlorophenol	ug/L (ppb)	10	101	110	55-113	9
1,2,4-Trichlorobenzene	ug/L (ppb)	10	92	99	50-109	7
Hexachlorobutadiene	ug/L (ppb)	10	92	97	50-109	5
4-Chloroaniline	ug/L (ppb)	20	101	101	30-109	0
4-Chloro-3-methylphenol	ug/L (ppb)	10	99	108	54-114	9
2-Methylnaphthalene	ug/L (ppb)	10	97	102	53-113	5
Hexachlorocyclopentadiene	ug/L (ppb)	10	51	58	26-94	13
2,4,6-Trichlorophenol	ug/L (ppb)	10	98	105	46-114	7
2,4,5-Trichlorophenol	ug/L (ppb)	10	100	109	57-122	9
2-Chloronaphthalene	ug/L (ppb)	10	90	98	52-112	9
2-Nitroaniline	ug/L (ppb)	10	113	119	47-128	5
Dimethyl phthalate	ug/L (ppb)	10	111	112	55-116	1
2,6-Dinitrotoluene	ug/L (ppb)	10	118	119	49-126	1
3-Nitroaniline	ug/L (ppb)	20	112	118	21-125	5
2,4-Dinitrophenol	ug/L (ppb)	10	75	96	29-130	25 vo
Dibenzofuran	ug/L (ppb)	10	97	102	53-113	5
2,4-Dinitrotoluene	ug/L (ppb)	10	120	123	48-129	2
4-Nitrophenol	ug/L (ppb)	10	41	49	12-59	18
Diethyl phthalate	ug/L (ppb)	10	111	109	55-116	2
4-Chlorophenyl phenyl ether	ug/L (ppb)	10	98	100	52-115	2
N-Nitrosodiphenylamine	ug/L (ppb)	10	99	104	51-112	5
4-Nitroaniline	ug/L (ppb)	20	103	112	42-115	8
4,6-Dinitro-2-methylphenol	ug/L (ppb)	10	83	101	40-128	20
4-Bromophenyl phenyl ether	ug/L (ppb)	10	98	102	53-114	4
Hexachlorobenzene	ug/L (ppb)	10	96	99	54-115	3
Pentachlorophenol	ug/L (ppb)	10	90	103	49-114	13
Carbazole	ug/L (ppb)	10	97	106	54-115	9
Di-n-butyl phthalate	ug/L (ppb)	10	103	108	54-115	5
Benzyl butyl phthalate	ug/L (ppb)	10	112	118	53-122	5
Bis(2-ethylhexyl) phthalate	ug/L (ppb)	10	112	120	54-122	7
Di-n-octyl phthalate	ug/L (ppb)	10	116	120	50-131	3

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/05/13

Date Received: 09/30/13

Project: 8th Avenue Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309543

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
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	ug/L (ppb)	1	84	86	67-116	2
Acenaphthylene	ug/L (ppb)	1	88	90	65-119	2
Acenaphthene	ug/L (ppb)	1	87	88	66-118	1
Fluorene	ug/L (ppb)	1	92	93	64-125	1
Phenanthrene	ug/L (ppb)	1	89	90	67-120	1
Anthracene	ug/L (ppb)	1	93	95	65-122	2
Fluoranthene	ug/L (ppb)	1	94	95	65-127	1
Pyrene	ug/L (ppb)	1	94	92	62-130	2
Benz(a)anthracene	ug/L (ppb)	1	90	90	60-118	0
Chrysene	ug/L (ppb)	1	94	96	66-125	2
Benzo(b)fluoranthene	ug/L (ppb)	1	97	99	55-135	2
Benzo(k)fluoranthene	ug/L (ppb)	1	92	102	62-125	10
Benzo(a)pyrene	ug/L (ppb)	1	92	95	58-127	3
Indeno(1,2,3-cd)pyrene	ug/L (ppb)	1	92	86	36-142	7
Dibenz(a,h)anthracene	ug/L (ppb)	1	80	75	37-133	6
Benzo(g,h,i)perylene	ug/L (ppb)	1	84	79	34-135	6

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/05/13

Date Received: 09/30/13

Project: 8th Avenue Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309543

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Aroclor 1016	ug/L (ppb)	2.5	116	109	70-130	6
Aroclor 1260	ug/L (ppb)	2.5	109	104	70-130	5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/05/13

Date Received: 09/30/13

Project: 8th Avenue Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309543

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

Laboratory Code: 309543-08 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Beryllium	ug/L (ppb)	5	<0.0980	98	96	67-145	2
Chromium	ug/L (ppb)	20	1.26	87	89	64-132	2
Nickel	ug/L (ppb)	20	0.728	84	82	61-128	2
Copper	ug/L (ppb)	20	<0.340	78	79	63-124	1
Zinc	ug/L (ppb)	50	<0.600	88	80	55-141	10
Arsenic	ug/L (ppb)	10	5.31 ip	97 b	92 b	60-150	5 b
Selenium	ug/L (ppb)	5	<0.560 ip	92	93	43-178	1
Silver	ug/L (ppb)	5	<0.0640	81	82	71-115	1
Cadmium	ug/L (ppb)	5	<0.0940	97	97	83-116	0
Antimony	ug/L (ppb)	20	0.0730	96	97	62-125	1
Barium	ug/L (ppb)	50	12.6	103 b	102 b	79-126	1 b
Thallium	ug/L (ppb)	5	<0.0740	97	96	73-119	1
Lead	ug/L (ppb)	10	<0.144	95	92	79-121	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Beryllium	ug/L (ppb)	5	96	73-135
Chromium	ug/L (ppb)	20	96	80-119
Nickel	ug/L (ppb)	20	97	79-122
Copper	ug/L (ppb)	20	97	81-119
Zinc	ug/L (ppb)	50	96	76-124
Arsenic	ug/L (ppb)	10	92	80-111
Selenium	ug/L (ppb)	5	97	81-119
Silver	ug/L (ppb)	5	85	80-116
Cadmium	ug/L (ppb)	5	95	83-113
Antimony	ug/L (ppb)	20	85	79-108
Barium	ug/L (ppb)	50	96	83-117
Thallium	ug/L (ppb)	5	96	78-116
Lead	ug/L (ppb)	10	95	83-115

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/05/13

Date Received: 09/30/13

Project: 8th Avenue Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309543

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR DISSOLVED METALS USING EPA METHOD 200.8**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Beryllium	ug/L (ppb)	5	101	97	73-135	4
Chromium	ug/L (ppb)	20	102	101	80-119	1
Nickel	ug/L (ppb)	20	101	100	79-122	1
Zinc	ug/L (ppb)	50	99	98	76-124	1
Silver	ug/L (ppb)	5	91	88	80-116	3
Cadmium	ug/L (ppb)	5	101	97	83-113	4
Antimony	ug/L (ppb)	20	88	90	79-108	2
Barium	ug/L (ppb)	50	103	99	83-117	4
Thallium	ug/L (ppb)	5	104	102	78-116	2
Lead	ug/L (ppb)	10	102	100	83-115	2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/05/13

Date Received: 09/30/13

Project: 8th Avenue Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309543

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

Laboratory Code: 309543-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Mercury	ug/L (ppb)	0.01	0.0015	96	93	63-132	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Mercury	ug/L (ppb)	0.01	100	78-118

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/05/13

Date Received: 09/30/13

Project: 8th Avenue Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309543

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES FOR
DISSOLVED MERCURY
USING EPA METHOD 1631E**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Mercury	ug/L (ppb)	0.01	100	102	78-118	2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/05/13

Date Received: 09/30/13

Project: 8th Avenue Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309543

**QUALITY ASSURANCE RESULTS
FROM THE ANALYSIS OF WATER SAMPLES FOR
TOTAL SUSPENDED SOLIDS
BY METHOD 2540D**

Laboratory Code: 310077-02 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
TSS	mg/L	16	22	32 a	0-20

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
TSS	mg/L	50	105	61-131

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.



RECEIVED
OCT 16 2013

October 14, 2013

Michele Costales Poquiz
Friedman & Bruya
3012 16th Ave W
Seattle, WA 98119

RE: Project: 309543
ARI Job No.: XH56

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 eight water samples on October 1, 2013 under ARI job XH56. For further details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

The sample was analyzed for chloride and TDS, as requested on the COC.

There were no anomalies associated with the analyses of this sample.

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.

A handwritten signature in black ink, appearing to read "Cheronne Oreiro".

Cheronne Oreiro
Project Manager
(206) 695-6214
cheronneo@arilabs.com
www.arilabs.com

cc: eFile XH56

Enclosures

SAMPLE CHAIN OF CUSTODY

Page # 1 of 1

TURNAROUND TIME
 Standard Turnaround
 RUSH
 Rush charges authorized by: _____

SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 Will call with instructions
 Samples Received at °C

SUBCONTRACTOR
 Analytical Resources, Inc. (ARI)

PROJECT NAME/NO.
309543

PO #
C-565

REMARKS
 Please e-mail results
 ELECTRONIC DATA REQUESTED (EIM)

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

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED										Notes
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Hexavalent Cr by 7196A	Total Organic Carbon by 9060M	TDS by 2540C	Chloride by SM4500	
CMW-5-093013		9/20/13	0948	water	2								X	X		
DMW-2-093013			1140										X	X		
EMW-9S-093013			1333										X	X		
CMW-3-093013			1005										X	X		
EMW-1S-093013			1203										X	X		
EMW-14D-093013			1005										X	X		
EMW-11S-093013			1152										X	X		
DMW-3-093013			1423										X	X		
FB-093013			1038										X	X		

Relinquished by: Michele Costales Poquiz DATE 10/1/13 TIME 9:20

Received by: Janifer Millsap DATE 10/1/13 TIME 11:20

Relinquished by: _____

Received by: _____

PRINT NAME: Michele Costales Poquiz COMPANY: F&B

PRINT NAME: Janifer Millsap COMPANY: ARI

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

MP 10/1/13
 150 : 00002



Cooler Receipt Form

ARI Client: Friedman Bruk

Project Name: 309543

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: Postal Expre

Assigned ARI Job No: XHS6

Tracking No: 4553100 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) 4.4

Time: 1122

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 122412204

Cooler Accepted by: JM Date: 10/1/13 Time: 1120

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: YES Date/Time: _____ Equipment: _____ Split by: _____

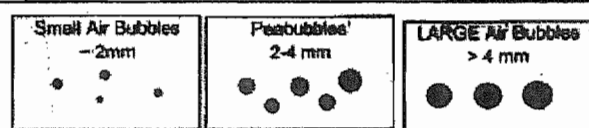
Samples Logged by: JJ Date: 10-1-13 Time: 1300

**** 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" (< 2 mm)
- Peabubbles → "pb" (2 to < 4 mm)
- Large → "lg" (4 to < 6 mm)
- Headspace → "hs" (> 6 mm)

Sample ID Cross Reference Report



ARI Job No: XH56
Client: Friedman & Bruay
Project Event: 309543
Project Name: N/A

Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1. CMW-5-093013	XH56A	13-21189	Water	09/30/13 09:48	10/01/13 11:20
2. DMW-2-093013	XH56B	13-21190	Water	09/30/13 11:40	10/01/13 11:20
3. EMW-9S-093013	XH56C	13-21191	Water	09/30/13 13:33	10/01/13 11:20
4. CMW-3-093013	XH56D	13-21192	Water	09/30/13 10:05	10/01/13 11:20
5. EMW-1S-093013	XH56E	13-21193	Water	09/30/13 12:03	10/01/13 11:20
6. EMW-14D-093013	XH56F	13-21194	Water	09/30/13 10:05	10/01/13 11:20
7. EMW-11S-093013	XH56G	13-21195	Water	09/30/13 11:52	10/01/13 11:20
8. DMW-3-093013	XH56H	13-21196	Water	09/30/13 14:23	10/01/13 11:20

SAMPLE RESULTS-CONVENTIONALS
XH56-Friedman & Bruay



Matrix: Water
Data Release Authorized:
Reported: 10/14/13

A handwritten signature in black ink, appearing to be 'J. Friedman', written over the 'Data Release Authorized:' text.

Project: NA
Event: 309543
Date Sampled: 09/30/13
Date Received: 10/01/13

Client ID: CMW-5-093013
ARI ID: 13-21189 XH56A

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/03/13 100313#1	SM2540C	mg/L	5.0	312
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	5.0	22.6

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XH56-Friedman & Bruay



Matrix: Water
Data Release Authorized:
Reported: 10/14/13

A handwritten signature in black ink, appearing to be 'JH' or similar, written over the 'Data Release Authorized' text.

Project: NA
Event: 309543
Date Sampled: 09/30/13
Date Received: 10/01/13


Client ID: DMW-2-093013
ARI ID: 13-21190 XH56B

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/03/13 100313#1	SM2540C	mg/L	5.0	229
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	1.0	8.9

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XH56-Friedman & Bruay



Matrix: Water
Data Release Authorized: 
Reported: 10/14/13

Project: NA
Event: 309543
Date Sampled: 09/30/13
Date Received: 10/01/13


Client ID: EMW-9S-093013
ARI ID: 13-21191 XH56C

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/03/13 100313#1	SM2540C	mg/L	5.0	212
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	5.0	9.9

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XH56-Friedman & Bruay



Matrix: Water
Data Release Authorized: 
Reported: 10/14/13

Project: NA
Event: 309543
Date Sampled: 09/30/13
Date Received: 10/01/13

Client ID: CMW-3-093013
ARI ID: 13-21192 XH56D

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/03/13 100313#1	SM2540C	mg/L	200	8,100
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	1,000	5,930

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XH56-Friedman & Bruay



Matrix: Water
Data Release Authorized:
Reported: 10/14/13

A handwritten signature in black ink, appearing to be 'JL' or similar, written over the 'Data Release Authorized' text.

Project: NA
Event: 309543
Date Sampled: 09/30/13
Date Received: 10/01/13

Client ID: EMW-1S-093013
ARI ID: 13-21193 XH56E

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/03/13 100313#1	SM2540C	mg/L	5.0	257
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	10.0	14.0

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XH56-Friedman & Bruay



Matrix: Water
Data Release Authorized:
Reported: 10/14/13

A handwritten signature in black ink, appearing to be 'J. Friedman', written over the 'Data Release Authorized' text.

Project: NA
Event: 309543
Date Sampled: 09/30/13
Date Received: 10/01/13


Client ID: EMW-14D-093013
ARI ID: 13-21194 XH56F

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/03/13 100313#1	SM2540C	mg/L	200	8,680
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	1,000	6,240

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XH56-Friedman & Bruay



Matrix: Water
Data Release Authorized: 
Reported: 10/14/13

Project: NA
Event: 309543
Date Sampled: 09/30/13
Date Received: 10/01/13

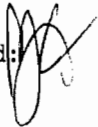
Client ID: EMW-11S-093013
ARI ID: 13-21195 XH56G

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/03/13 100313#1	SM2540C	mg/L	5.0	278
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	5.0	8.6

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XH56-Friedman & Bruay



Matrix: Water
Data Release Authorized: 
Reported: 10/14/13

Project: NA
Event: 309543
Date Sampled: 09/30/13
Date Received: 10/01/13

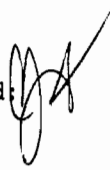
Client ID: DMW-3-093013
ARI ID: 13-21196 XH56H

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/03/13 100313#1	SM2540C	mg/L	5.0	208
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	5.0	11.8

RL Analytical reporting limit
U Undetected at reported detection limit

MS/MSD RESULTS-CONVENTIONALS
XH56-Friedman & Bruay



Matrix: Water
Data Release Authorized: 
Reported: 10/14/13

Project: NA
Event: 309543
Date Sampled: 09/30/13
Date Received: 10/01/13

Analyte	Method	Date	Units	Sample	Spike	Spike Added	Recovery
ARI ID: XH56A Client ID: CMW-5-093013							
Chloride	SM4500-CLE	10/04/13	mg/L	22.6	71.4	50.0	97.6%

REPLICATE RESULTS-CONVENTIONALS
XH56-Friedman & Bruay



Matrix: Water
Data Release Authorized
Reported: 10/14/13

A handwritten signature in black ink, appearing to be 'JFK' or similar, written over the 'Data Release Authorized' text.

Project: NA
Event: 309543
Date Sampled: 09/30/13
Date Received: 10/01/13

Analyte	Method	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: XH56A Client ID: CMW-5-093013						
Total Dissolved Solids	SM2540C	10/03/13	mg/L	312	317	1.6%
Chloride	SM4500-CLE	10/04/13	mg/L	22.6	23.5	3.9%

LAB CONTROL RESULTS-CONVENTIONALS
XH56-Friedman & Bruay



Matrix: Water
Data Release Authorized:
Reported: 10/14/13

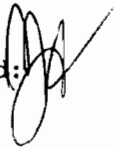
A handwritten signature in black ink, appearing to be 'WJ' or similar, written over the 'Data Release Authorized:' line.

Project: NA
Event: 309543
Date Sampled: NA
Date Received: NA

Analyte/Method	QC ID	Date	Units	LCS	Spike Added	Recovery
Total Dissolved Solids SM2540C	ICVL	10/03/13	mg/L	493	500	98.6%

METHOD BLANK RESULTS-CONVENTIONALS
XH56-Friedman & Bruay



Matrix: Water
Data Release Authorized: 
Reported: 10/14/13


Project: NA
Event: 309543
Date Sampled: NA
Date Received: NA

Analyte	Method	Date	Units	Blank	ID
Total Dissolved Solids	SM2540C	10/03/13	mg/L	< 5.0 U	
Chloride	SM4500-CLE	10/04/13	mg/L	< 1.0 U	FB

FB Filtration Blank

STANDARD REFERENCE RESULTS-CONVENTIONALS
XH56-Friedman & Bruay



Matrix: Water
Data Release Authorized: 
Reported: 10/14/13

Project: NA
Event: 309543
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Method	Date	Units	SRM	True Value	Recovery
Chloride ERA #411010	SM4500-CLE	10/04/13	mg/L	5.0	5.0	100.0%

November 5, 2013

Michele Poquiz
Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282

Project Name: 309543

Ms Poquiz,

Attached is the report associated with eight (8) aqueous samples submitted for dissolved arsenic, copper, and selenium analyses on October 16, 2013. All samples were received on the same day, October 16, 2013, in a sealed cooler at 4.2°C. Dissolved metals analyses were performed via inductively coupled plasma dynamic reaction cell mass spectrometry (ICP-DRC-MS). Any analytical issues associated with the analyses are addressed in the following report.

If you have any questions, please feel free to contact me at your convenience.

Sincerely,



Jeremy Maute
Project Coordinator
Applied Speciation and Consulting, LLC

Applied Speciation and Consulting, LLC

Report prepared for:

Michele Poquiz
Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029

Project Name: 309543

November 5, 2013

1. Sample Reception

Eight (8) aqueous samples were submitted for dissolved arsenic, copper, and selenium analyses on October 16, 2013. All samples were received in acceptable condition on the same day, October 16, 2013, in a sealed container at 4.2°C.

The samples submitted for dissolved metals analyses were filtered and preserved prior to reception at Applied Speciation and Consulting. The pH values of the samples were checked upon sample reception to confirm the adequacy of sample preservation.

The samples were received in a laminar flow clean hood void of trace metals contamination and ultra-violet radiation. The samples were stored in a secure enclosed container, known to be free from trace metals contamination, until the digestion and analysis could be performed.

The sample collection time listed on the container for the client sample EMW-1S-093013 did not match the corresponding sample collection time provided on the chain-of-custody (COC) form. The associated COC form indicates that sample EMW-1S-093013 was collected on 9/30/2013 at 12:03. The corresponding sample container label indicates that sample EMW-1S-093013 was collected on 9/30/2013 at 12:29. All other descriptive parameters on the sample container agreed with those provided on the associated COC.

The sample container/COC form collection time agreement issue described above was documented on the associated COC form by sample reception staff at Applied Speciation and Consulting. The sample was logged into the system under the sample ID provided on the COC, which was in agreement with the client sample ID listed on the corresponding sample container label.

2. Sample Preparation

All sample preparation is performed in laminar flow clean hoods known to be free from trace metals contamination. All applied water for dilutions and sample preservatives are monitored for contamination to account for any biases associated with the sample results.

Dissolved As, Cu, and Se Analysis by ICP-DRC-MS The samples submitted for dissolved metals analyses were filtered and preserved prior to reception at Applied Speciation and Consulting. All preserved samples were digested in accordance with EPA Method 200.8 on October 18, 2013. All sample digests were then analyzed via inductively coupled plasma dynamic reaction cell mass spectrometry (ICP-DRC-MS).

3. Sample Analysis

All sample analysis is precluded by a minimum of a five-point calibration curve spanning the entire concentration range of interest. Calibration curves are performed at the beginning of each analytical day. All calibration curves, associated with each species of interest, are standardized by linear regression resulting in a response factor. All sample results are **instrument blank corrected** to account for any operational biases associated with the analytical platform.

Prior to sample analysis, all calibration curves are verified using second source standards which are identified as initial calibration verification standards (ICV).

Ongoing instrument performance is identified by the analysis of continuing calibration verification standards (CCV) and continuing calibration blanks (CCB) at a minimum interval of every ten analytical runs.

Dissolved As, Cu, and Se Analysis by ICP-DRC-MS All sample digests for dissolved arsenic, copper, and selenium analysis were analyzed by inductively coupled plasma dynamic reaction cell mass spectrometry (ICP-DRC-MS) on November 1, 2013. Aliquots of each sample are introduced into a radio frequency (RF) plasma where energy-transfer processes cause desolvation, atomization, and ionization. The ions are extracted from the plasma through a differentially-pumped vacuum interface and travel through a pressurized chamber (DRC) containing a specific reactive gas which preferentially reacts with interfering ions of the same target mass to charge ratios (m/z). A solid-state detector detects ions transmitted through the mass analyzer, on the basis of their mass-to-charge ratio (m/z), and the resulting current is processed by a data handling system.

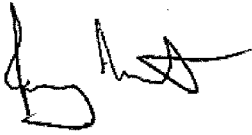
4. Analytical Issues

The overall analyses went well and no significant analytical issues were encountered. All quality control parameters associated with these samples were within acceptance limits.

The estimated method detection limits (eMDL) for dissolved metals have been calculated using the standard deviation of the preparation blanks preserved and analyzed concurrently with the submitted samples.

If you have any questions or concerns regarding this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'J. Maute', written in a cursive style.

Jeremy Maute
Project Coordinator
Applied Speciation and Consulting, LLC

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Received: 10/16/2013

Date Sampled: 9/30/2013

Client Sample ID
CMW-5-093013
Laboratory Sample ID
CMW-5-093013

Analyte	Method	Batch ID	Dilution	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	TM2	5	0.010	0.20	73.0
Diss Cu	EPA 200.8	TM2	5	0.18	0.20	0.40
Diss Se	EPA 200.8	TM2	5	0.072	0.20	0.159 J

All results are reported in µg/L and reflect the applied dilution

U = Sample concentration is below the eMDL

J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Sampled: 9/30/2013

Date Received: 10/16/2013

Client Sample ID
DMW-2-093013
Laboratory Sample ID
DMW-2-093013

Analyte	Method	Batch ID	Dilution	eMDL	Reporting	
					Limit	Concentration
Diss As	EPA 200.8	TM2	5	0.010	0.20	5.38
Diss Cu	EPA 200.8	TM2	5	0.18	0.20	0.45
Diss Se	EPA 200.8	TM2	5	0.072	0.20	< 0.072 U

All results are reported in µg/L and reflect the applied dilution

U = Sample concentration is below the eMDL

J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Received: 10/16/2013

Date Sampled: 9/30/2013

Client Sample ID
EMW-9S-093013
Laboratory Sample ID
EMW-9S-093013

Analyte	Method	Batch ID	Dilution	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	TM2	5	0.010	0.20	21.4
Diss Cu	EPA 200.8	TM2	5	0.18	0.20	0.26
Diss Se	EPA 200.8	TM2	5	0.072	0.20	< 0.072 U

All results are reported in µg/L and reflect the applied dilution

U = Sample concentration is below the eMDL

J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Received: 10/16/2013

Date Sampled: 9/30/2013

Client Sample ID
CMW-3-093013
Laboratory Sample ID
CMW-3-093013

Analyte	Method	Batch ID	Dilution	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	TM2	5	0.010	0.20	12.6
Diss Cu	EPA 200.8	TM2	5	0.18	0.20	2.12
Diss Se	EPA 200.8	TM2	5	0.072	0.20	< 0.072 U

All results are reported in µg/L and reflect the applied dilution

U = Sample concentration is below the eMDL

J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Received: 10/16/2013

Date Sampled: 9/30/2013

Client Sample ID
EMW-1S-093013

Laboratory Sample ID
EMW-1S-093013

Analyte	Method	Batch ID	Dilution	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	TM2	5	0.010	0.20	12.5
Diss Cu	EPA 200.8	TM2	5	0.18	0.20	0.47
Diss Se	EPA 200.8	TM2	5	0.072	0.20	0.107 J

All results are reported in µg/L and reflect the applied dilution

U = Sample concentration is below the eMDL

J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Received: 10/16/2013

Date Sampled: 9/30/2013

Client Sample ID
EMW-14D-093013

Laboratory Sample ID
EMW-14D-093013

Analyte	Method	Batch ID	Dilution	eMDL	Reporting	
					Limit	Concentration
Diss As	EPA 200.8	TM2	5	0.010	0.20	1.25
Diss Cu	EPA 200.8	TM2	5	0.18	0.20	0.50
Diss Se	EPA 200.8	TM2	5	0.072	0.20	< 0.072 U

All results are reported in µg/L and reflect the applied dilution

U = Sample concentration is below the eMDL

J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013

Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Sampled: 9/30/2013

Date Received: 10/16/2013

Client Sample ID
EMW-115-093013

Laboratory Sample ID
EMW-115-093013

Analyte	Method	Batch ID	Dilution	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	TM2	5	0.010	0.20	3.44
Diss Cu	EPA 200.8	TM2	5	0.18	0.20	2.55
Diss Se	EPA 200.8	TM2	5	0.072	0.20	0.125 J

All results are reported in µg/L and reflect the applied dilution

U = Sample concentration is below the eMDL

J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Received: 10/16/2013

Date Sampled: 9/30/2013

Client Sample ID
DMW-3-093013
Laboratory Sample ID
DMW-3-093013

Analyte	Method	Batch ID	Dilution	eMDL	Reporting	
					Limit	Concentration
Diss As	EPA 200.8	TM2	5	0.010	0.20	5.44
Diss Cu	EPA 200.8	TM2	5	0.18	0.20	0.33
Diss Se	EPA 200.8	TM2	5	0.072	0.20	< 0.072 U

All results are reported in µg/L and reflect the applied dilution

U = Sample concentration is below the eMDL

J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
 Contact: Michele Poquiz

Date: November 5, 2013
 Report Generated by: Jeremy Maute
 Applied Speciation and Consulting, LLC

Quality Control Summary - Preparation Blank Summary

Analyte (µg/L)	Batch ID	PBW-1	PBW-2	PBW-3	PBW-4	Mean	StdDev	eMDL*	eMDL 5x	Sample RL
Diss As	TM2	0.013	0.012	0.011	0.005	0.010	0.003	0.002	0.010	0.20
Diss Cu	TM2	0.02	0.12	0.00	-0.02	0.03	0.06	0.04	0.18	0.20
Diss Se	TM2	-0.058	-0.042	-0.025	-0.002	-0.032	0.024	0.014	0.072	0.20

eMDL = Estimated Method Detection Limit

* Please see narrative regarding eMDL calculations

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Quality Control Summary - Certified Reference Material

Analyte (µg/L)	Batch ID	LCS	True Value	Result	Recovery
Total As	TM2	LCS	400.0	370.3	92.6
Total As	TM2	TMDA-70	40.7	38.7	95.0
Total Cu	TM2	LCS	400.0	395.4	98.9
Total Cu	TM2	TMDA-70	399	388	97.3
Total Se	TM2	LCS	400.0	375.7	93.9
Total Se	TM2	TMDA-70	25.9	23.6	91.0

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Quality Control Summary - Matrix Duplicates

Analyte (µg/L)	Sample ID	Batch ID	Rep 1	Rep 2	Mean	RPD
Diss As	DMW-3-093013	TM2	5.444	5.524	5.484	1.5
Diss Cu	DMW-3-093013	TM2	0.33	0.29	0.31	12.4
Diss Se	DMW-3-093013	TM2	< 0.072 U	< 0.072 U	NC	NC

NC = Not calculated due to one or more values below the eMDL

U = Sample concentration is below the eMDL

J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
 Contact: Michele Poquiz

Date: November 5, 2013
 Report Generated by: Jeremy Maute
 Applied Speciation and Consulting, LLC

Quality Control Summary - Matrix Spike/ Matrix Spike Duplicate

Analyte (µg/L)	Sample ID	Batch ID	Spike Conc	MS Result	Recovery	Spike Conc	MSD Result	Recovery	RPD
Diss As	DMW-3-093013	TM2	400.0	375.7	92.6	400.0	431.3	106.4	13.8
Diss Cu	DMW-3-093013	TM2	400.0	353.3	88.2	400.0	410.6	102.6	15.0
Diss Se	DMW-3-093013	TM2	400.0	371.4	92.8	400.0	424.3	106.1	13.3

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 13, 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 July 24, 2013 from the Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307358 project. There are 41 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
Chemist

Enclosures
SLR0813R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on July 24, 2013 by Friedman & Bruya, Inc. from the SLR International Corp. Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307358 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
307358-01	Seep-1
307358-02	Seep-2
307358-03	Seep-3

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

The percent recovery for the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) failed high. The result has been flagged accordingly.

Volatile Compounds by EPA Method 8260C

The calibration result for bromomethane fell outside of acceptance criteria. The values reported are estimates.

The percent recovery for the matrix spike (MS), matrix spike duplicate (MSD), LCS, and LCSD failed high for several compounds. The samples were non-detect for these compounds, therefore the results are valid.

Semivolatile Organic Compounds by EPA Method 8270D

The presence of bis(2-ethylhexyl) phthalate in the samples and method blank is likely due to laboratory contamination. The results have been flagged accordingly.

The internal standard associated with di-n-octyl phthalate exceeded acceptance criteria for the sample Seep-2. The results have been flagged accordingly.

The internal standard exceeded acceptance criteria for the sample Seep-3. The sample was diluted and reanalyzed. The results from the original analysis and the re-analysis are included.

The percent recovery for the LCSD and the RPD for the LCS/LCSD exceeded acceptance criteria for 2,4-dimethylphenol and benzoic acid. The results have been flagged accordingly.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Semivolatile Organic Compounds by EPA Method 8270D SIM

A surrogate exceeded acceptance criteria for the sample Seep-2. The result has been flagged accordingly.

Polychlorinated Biphenyls as Aroclor 1016/1260 by EPA Method 8082A

All quality control requirements were acceptable.

Total Metals by EPA Method 200.8

The internal standards associated with several analytes exceeded acceptance criteria for the samples Seep-1, Seep-2, and Seep-3. The samples were diluted and reanalyzed. The results from the original analysis and the re-analysis are included.

Total Mercury by EPA Method 1631E

All quality control requirements were acceptable.

Total Suspended Solids by Method 2540D

All quality control requirements were acceptable.

Total Organic Carbon by EPA Method 9060M

The samples were sent to Analytical Resources, Inc. for total organic carbon analysis. The report generated by ARI is enclosed.

Chloride by Method SM4500

The samples were sent to ARI for chloride analysis. The report generated by ARI is enclosed.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/13/13

Date Received: 07/24/13

Project: Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307358

Date Extracted: 07/25/13

Date Analyzed: 07/25/13

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

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	Surrogate <u>(% Recovery)</u> (Limit 51-134)
Seep-1 307358-01	<12	89
Seep-2 307358-02	<12	89
Seep-3 307358-03	<12	88
Method Blank 03-1443 MB	<12	91

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/13/13

Date Received: 07/24/13

Project: Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307358

Date Extracted: 07/29/13

Date Analyzed: 07/30/13

**RESULTS FROM THE ANALYSIS OF WATER 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 as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 51-134)
Seep-1 307358-01	<6.9	<52	87
Seep-2 307358-02	<6.9	<52	88
Seep-3 307358-03 *	<6.9	<52	89
Method Blank 03-1477 MB	<6.9	<52	74

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Seep-1	Client:	SLR International Corp.
Date Received:	07/24/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/26/13	Lab ID:	307358-01
Date Analyzed:	07/26/13	Data File:	072612.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	100	50	150
4-Bromofluorobenzene	100	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 ca j	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 j
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:	Seep-2	Client:	SLR International Corp.
Date Received:	07/24/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/25/13	Lab ID:	307358-02
Date Analyzed:	07/25/13	Data File:	072509.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	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 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 ca j	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 j
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:	Seep-3	Client:	SLR International Corp.
Date Received:	07/24/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/25/13	Lab ID:	307358-03
Date Analyzed:	07/25/13	Data File:	072510.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	99	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 ca j	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 j
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 101.00205.00030
Date Extracted:	07/25/13	Lab ID:	03-1328 mb2
Date Analyzed:	07/25/13	Data File:	072507.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	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 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 ca j	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 j
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 Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	Seep-1	Client:	SLR International Corp.
Date Received:	07/24/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/30/13	Lab ID:	307358-01
Date Analyzed:	08/02/13	Data File:	080216.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	35	32	162
Phenol-d6	31	10	170
Nitrobenzene-d5	106	50	150
2-Fluorobiphenyl	107	43	158
2,4,6-Tribromophenol	71	43	146
Terphenyl-d14	114	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28 jl	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	1.2 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	Seep-2	Client:	SLR International Corp.
Date Received:	07/24/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/30/13	Lab ID:	307358-02
Date Analyzed:	08/02/13	Data File:	080217.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	49	32	162
Phenol-d6	33	10	170
Nitrobenzene-d5	102	50	150
2-Fluorobiphenyl	105	43	158
2,4,6-Tribromophenol	110	43	146
Terphenyl-d14	123	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28 jl	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.28 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044 J
Hexachlorocyclopentadiene	<0.094		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	Seep-3	Client:	SLR International Corp.
Date Received:	07/24/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/30/13	Lab ID:	307358-03
Date Analyzed:	08/03/13	Data File:	080218.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	59 J	32	162
Phenol-d6	34 J	10	170
Nitrobenzene-d5	100 J	50	150
2-Fluorobiphenyl	107 J	43	158
2,4,6-Tribromophenol	103 J	43	146
Terphenyl-d14	139 J	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14 J	2,4,6-Trichlorophenol	<0.28 J
Bis(2-chloroethyl) ether	<0.06 J	2,4,5-Trichlorophenol	<0.22 J
2-Chlorophenol	<0.16 J	2-Chloronaphthalene	<0.044 J
1,3-Dichlorobenzene	<0.034 J	2-Nitroaniline	<0.086 J
1,4-Dichlorobenzene	<0.034 J	Dimethyl phthalate	<0.05 J
1,2-Dichlorobenzene	<0.024 J	2,6-Dinitrotoluene	<0.062 J
Benzyl alcohol	<0.4 J	3-Nitroaniline	<0.46 J
Bis(2-chloroisopropyl) ether	<0.03 J	2,4-Dinitrophenol	<2.4 J
2-Methylphenol	<0.26 J	Dibenzofuran	<0.034 J
Hexachloroethane	<0.06 J	2,4-Dinitrotoluene	<0.056 J
N-Nitroso-di-n-propylamine	<0.11 J	4-Nitrophenol	<1.3 J
3-Methylphenol + 4-Methylphenol	<0.42 J	Diethyl phthalate	<0.06 J
Nitrobenzene	<0.044 J	4-Chlorophenyl phenyl ether	<0.072 J
Isophorone	<0.03 J	N-Nitrosodiphenylamine	<0.05 J
2-Nitrophenol	<0.17 J	4-Nitroaniline	<0.56 J
2,4-Dimethylphenol	<0.28 J jl	4,6-Dinitro-2-methylphenol	<0.38 J
Benzoic acid	<14 J	4-Bromophenyl phenyl ether	<0.056 J
Bis(2-chloroethoxy)methane	<0.034 J	Hexachlorobenzene	<0.05 J
2,4-Dichlorophenol	<0.26 J	Pentachlorophenol	<0.32 J
1,2,4-Trichlorobenzene	<0.05 J	Carbazole	<0.048 J
Hexachlorobutadiene	<0.07 J	Di-n-butyl phthalate	<0.068 J
4-Chloroaniline	<0.056 J	Benzyl butyl phthalate	<0.086 J
4-Chloro-3-methylphenol	<0.24 J	Bis(2-ethylhexyl) phthalate	0.26 J fb
2-Methylnaphthalene	<0.034 J	Di-n-octyl phthalate	<0.044 J
Hexachlorocyclopentadiene	<0.094 J		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	Seep-3	Client:	SLR International Corp.
Date Received:	07/24/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/30/13	Lab ID:	207358-03 1/10
Date Analyzed:	08/05/13	Data File:	080512.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	46 ds	32	162
Phenol-d6	27 ds	10	170
Nitrobenzene-d5	83 ds	50	150
2-Fluorobiphenyl	100 ds	43	158
2,4,6-Tribromophenol	83 ds	43	146
Terphenyl-d14	102 ds	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<1.4	2,4,6-Trichlorophenol	<2.8
Bis(2-chloroethyl) ether	<0.6	2,4,5-Trichlorophenol	<2.2
2-Chlorophenol	<1.6	2-Chloronaphthalene	<0.44
1,3-Dichlorobenzene	<0.34	2-Nitroaniline	<0.86
1,4-Dichlorobenzene	<0.34	Dimethyl phthalate	<0.5
1,2-Dichlorobenzene	<0.24	2,6-Dinitrotoluene	<0.62
Benzyl alcohol	<4	3-Nitroaniline	<4.6
Bis(2-chloroisopropyl) ether	<0.3	2,4-Dinitrophenol	<24
2-Methylphenol	<2.6	Dibenzofuran	<0.34
Hexachloroethane	<0.6	2,4-Dinitrotoluene	<0.56
N-Nitroso-di-n-propylamine	<1.1	4-Nitrophenol	<13
3-Methylphenol + 4-Methylphenol	<4.2	Diethyl phthalate	<0.6
Nitrobenzene	<0.44	4-Chlorophenyl phenyl ether	<0.72
Isophorone	<0.3	N-Nitrosodiphenylamine	<0.5
2-Nitrophenol	<1.7	4-Nitroaniline	<5.6
2,4-Dimethylphenol	<2.8 jl	4,6-Dinitro-2-methylphenol	<3.8
Benzoic acid	<140	4-Bromophenyl phenyl ether	<0.56
Bis(2-chloroethoxy)methane	<0.34	Hexachlorobenzene	<0.5
2,4-Dichlorophenol	<2.6	Pentachlorophenol	<3.2
1,2,4-Trichlorobenzene	<0.5	Carbazole	<0.48
Hexachlorobutadiene	<0.7	Di-n-butyl phthalate	<0.68
4-Chloroaniline	<0.56	Benzyl butyl phthalate	<0.86
4-Chloro-3-methylphenol	<2.4	Bis(2-ethylhexyl) phthalate	<1.7
2-Methylnaphthalene	<0.34	Di-n-octyl phthalate	<0.44
Hexachlorocyclopentadiene	<0.94		

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 RIFS 101.00205.00030
Date Extracted:	07/30/13	Lab ID:	03-1486 mb
Date Analyzed:	08/02/13	Data File:	080213.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	30	32	162
Phenol-d6	25	10	170
Nitrobenzene-d5	89	50	150
2-Fluorobiphenyl	88	43	158
2,4,6-Tribromophenol	63	43	146
Terphenyl-d14	95	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28 jl	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.18 lc
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Seep-1	Client:	SLR International Corp.
Date Received:	07/24/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/30/13	Lab ID:	307358-01
Date Analyzed:	07/31/13	Data File:	073111.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	93	50	150
Benzo(a)anthracene-d12	110	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.011
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	0.0092
Anthracene	<0.0028
Fluoranthene	0.0063
Pyrene	0.0044
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Seep-2	Client:	SLR International Corp.
Date Received:	07/24/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/30/13	Lab ID:	307358-02
Date Analyzed:	08/01/13	Data File:	080109.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	125	50	150
Benzo(a)anthracene-d12	145 vo	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.0046
Acenaphthylene	<0.0024
Acenaphthene	0.0044
Fluorene	<0.004
Phenanthrene	0.0082
Anthracene	<0.0028
Fluoranthene	0.0047
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Seep-3	Client:	SLR International Corp.
Date Received:	07/24/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/30/13	Lab ID:	307358-03
Date Analyzed:	07/31/13	Data File:	073113.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	96	50	150
Benzo(a)anthracene-d12	107	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.0048
Acenaphthylene	<0.0024
Acenaphthene	0.0050
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	<0.0028
Fluoranthene	<0.0046
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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 101.00205.00030
Date Extracted:	07/30/13	Lab ID:	03-1487 mb
Date Analyzed:	07/31/13	Data File:	073108.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	92	50	150
Benzo(a)anthracene-d12	99	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.004
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	<0.0028
Fluoranthene	<0.0046
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082

Client Sample ID:	Seep-1	Client:	SLR International Corp.
Date Received:	07/24/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/29/13	Lab ID:	307358-01 1/0.25
Date Analyzed:	07/30/13	Data File:	18.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	mwdl

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

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082

Client Sample ID:	Seep-2	Client:	SLR International Corp.
Date Received:	07/24/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/29/13	Lab ID:	307358-02 1/0.25
Date Analyzed:	07/30/13	Data File:	20.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	86	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082

Client Sample ID:	Seep-3	Client:	SLR International Corp.
Date Received:	07/24/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/29/13	Lab ID:	307358-03 1/0.25
Date Analyzed:	07/30/13	Data File:	22.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	mwdl

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

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/29/13	Lab ID:	03-1480 mb 1/0.25
Date Analyzed:	07/30/13	Data File:	073012.D\NECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	mwdl

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

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Seep-1	Client:	SLR International Corp.
Date Received:	07/24/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/29/13	Lab ID:	307358-01
Date Analyzed:	07/30/13	Data File:	307358-01.033
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	51 vo	60	125
Indium	50 vo	60	125
Holmium	45 vo	60	125

Analyte:	Concentration ug/L (ppb)
Silver	<0.0640 J
Cadmium	<0.250 J
Thallium	<0.0740 J
Lead	0.153 J

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Seep-1	Client:	SLR International Corp.
Date Received:	07/24/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/29/13	Lab ID:	307358-01 x10
Date Analyzed:	07/30/13	Data File:	307358-01 x10.039
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	81	60	125
Indium	80	60	125
Holmium	80	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	2.27
Nickel	6.86
Copper	45.4
Zinc	15.4
Arsenic	36.1
Selenium	132
Silver	<0.640
Cadmium	<2.50
Antimony	0.790
Barium	39.4
Thallium	<0.740
Lead	<1.44

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Seep-2	Client:	SLR International Corp.
Date Received:	07/24/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/29/13	Lab ID:	307358-02
Date Analyzed:	07/30/13	Data File:	307358-02.034
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	53 vo	60	125
Indium	51 vo	60	125
Holmium	45 vo	60	125

Analyte:	Concentration ug/L (ppb)
Silver	<0.0640 J
Cadmium	<0.250 J
Thallium	<0.0740 J
Lead	<0.144 J

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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Seep-2	Client:	SLR International Corp.
Date Received:	07/24/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/29/13	Lab ID:	307358-02 x10
Date Analyzed:	07/30/13	Data File:	307358-02 x10.040
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	80	60	125
Indium	78	60	125
Holmium	78	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	2.53
Nickel	7.24
Copper	50.9
Zinc	12.3
Arsenic	38.5
Selenium	143
Silver	<0.640
Cadmium	<2.50
Antimony	<0.520 j
Barium	26.5
Thallium	<0.740
Lead	<1.44

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Seep-3	Client:	SLR International Corp.
Date Received:	07/24/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/29/13	Lab ID:	307358-03
Date Analyzed:	07/30/13	Data File:	307358-03.035
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	54 vo	60	125
Indium	51 vo	60	125
Holmium	45 vo	60	125

Analyte:	Concentration ug/L (ppb)
Silver	<0.0640 J
Cadmium	<0.250 J
Thallium	<0.0740 J
Lead	<0.144 J

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Seep-3	Client:	SLR International Corp.
Date Received:	07/24/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/29/13	Lab ID:	307358-03 x10
Date Analyzed:	07/30/13	Data File:	307358-03 x10.041
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	69	60	125
Indium	67	60	125
Holmium	68	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	3.96
Nickel	9.72
Copper	57.7
Zinc	39.6
Arsenic	45.2
Selenium	157
Silver	<0.640
Cadmium	<2.50
Antimony	3.10
Barium	89.7
Thallium	<0.740
Lead	<1.44

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/29/13	Lab ID:	I3-458 mb
Date Analyzed:	07/30/13	Data File:	I3-458 mb.008
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	97	60	125
Indium	99	60	125
Holmium	98	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	<0.138
Nickel	<0.460
Copper	<0.340
Zinc	<0.600
Arsenic	<0.150
Selenium	<0.560
Silver	<0.0640
Cadmium	<0.250
Antimony	<0.0520 j
Barium	<0.260
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/13/13

Date Received: 07/24/13

Project: Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307358

Date Extracted: 07/30/13

Date Analyzed: 07/31/13

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

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Total Mercury</u>
Seep-1 307358-01	0.0025
Seep-2 307358-02	<0.0015
Seep-3 307358-03	0.0026
Method Blank	<0.0015

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/13/13

Date Received: 07/24/13

Project: Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307358

Date Extracted: NA

Date Analyzed: 07/30/13

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL SUSPENDED SOLIDS
BY METHOD 2540D**

Results Reported as mg/L (ppm)

<u>Sample ID</u> Laboratory ID	Total Suspended <u>Solids</u>
Seep-1 307358-01	<10
Seep-2 307358-02	<10
Seep-3 307358-03	<10
Method Blank	<10

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/13/13

Date Received: 07/24/13

Project: Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307358

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TPH AS GASOLINE
USING METHOD NWTPH-Gx**

Laboratory Code: 307333-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Gasoline	ug/L (ppb)	<12	<12	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	ug/L (ppb)	1,000	101	69-134

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/13/13

Date Received: 07/24/13

Project: Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307358

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

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	60	83	58-134	32 vo

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/13/13

Date Received: 07/24/13

Project: Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307358

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

Laboratory Code: 307333-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Dichlorodifluoromethane	ug/L (ppb)	50	<0.16	123	55-144
Chloromethane	ug/L (ppb)	50	<0.22	104	67-131
Vinyl chloride	ug/L (ppb)	50	0.15	104	61-139
Bromomethane	ug/L (ppb)	50	<0.2	1039 vo	66-129
Chloroethane	ug/L (ppb)	50	<0.18	168 vo	68-126
Trichlorofluoromethane	ug/L (ppb)	50	<0.17	133 vo	71-128
Acetone	ug/L (ppb)	250	<2.6	97	48-149
1,1-Dichloroethene	ug/L (ppb)	50	<0.19	108	71-123
Methylene chloride	ug/L (ppb)	50	<3	99	61-126
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	<0.13	103	68-125
trans-1,2-Dichloroethene	ug/L (ppb)	50	<0.24	101	72-122
1,1-Dichloroethane	ug/L (ppb)	50	<0.18	102	79-113
2,2-Dichloropropane	ug/L (ppb)	50	<0.3	107	58-132
cis-1,2-Dichloroethene	ug/L (ppb)	50	<0.24	100	73-119
Chloroform	ug/L (ppb)	50	<0.24	93	80-112
2-Butanone (MEK)	ug/L (ppb)	250	<0.94	99	69-123
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<0.11	97	78-113
1,1,1-Trichloroethane	ug/L (ppb)	50	<0.2	108	79-116
1,1-Dichloropropene	ug/L (ppb)	50	<0.26	95	67-121
Carbon tetrachloride	ug/L (ppb)	50	<0.24	113	72-123
Benzene	ug/L (ppb)	50	<0.13	95	79-109
Trichloroethene	ug/L (ppb)	50	<0.17	96	75-109
1,2-Dichloropropane	ug/L (ppb)	50	<0.32	101	80-111
Bromodichloromethane	ug/L (ppb)	50	<0.38	113	78-117
Dibromomethane	ug/L (ppb)	50	<0.28	104	80-112
4-Methyl-2-pentanone	ug/L (ppb)	250	<1.3	124 vo	79-123
cis-1,3-Dichloropropene	ug/L (ppb)	50	<0.2	113	76-120
Toluene	ug/L (ppb)	50	<0.13	93	73-117
trans-1,3-Dichloropropene	ug/L (ppb)	50	<0.34	112	75-122
1,1,2-Trichloroethane	ug/L (ppb)	50	<0.28	102	81-111
2-Hexanone	ug/L (ppb)	250	<1	119	75-126
1,3-Dichloropropane	ug/L (ppb)	50	<0.2	98	81-111
Tetrachloroethene	ug/L (ppb)	50	<0.28	94	72-113
Dibromochloromethane	ug/L (ppb)	50	<0.24	116	69-129
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	<0.24	108	83-114
Chlorobenzene	ug/L (ppb)	50	<0.1	95	75-115
Ethylbenzene	ug/L (ppb)	50	<0.16	96	71-120
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	<0.32	104	78-122
m,p-Xylene	ug/L (ppb)	100	<0.5	96	63-128
o-Xylene	ug/L (ppb)	50	<0.22	97	64-129
Styrene	ug/L (ppb)	50	<0.22	99	70-122
Isopropylbenzene	ug/L (ppb)	50	<0.15	97	76-118
Bromoform	ug/L (ppb)	50	<0.22	125	49-138
n-Propylbenzene	ug/L (ppb)	50	<0.14	99	74-117
Bromobenzene	ug/L (ppb)	50	<0.18	99	70-121
1,3,5-Trimethylbenzene	ug/L (ppb)	50	<0.18	98	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	98	77-114
4-Chlorotoluene	ug/L (ppb)	50	<0.16	97	81-109
tert-Butylbenzene	ug/L (ppb)	50	<0.15	100	81-116
1,2,4-Trimethylbenzene	ug/L (ppb)	50	<0.11	98	74-118
sec-Butylbenzene	ug/L (ppb)	50	<0.12	97	77-118
p-Isopropyltoluene	ug/L (ppb)	50	<0.15	97	64-132
1,3-Dichlorobenzene	ug/L (ppb)	50	<0.15	95	81-111
1,4-Dichlorobenzene	ug/L (ppb)	50	<0.094	92	78-110
1,2-Dichlorobenzene	ug/L (ppb)	50	<0.13	98	81-111
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	<0.44	118	69-129
1,2,4-Trichlorobenzene	ug/L (ppb)	50	<0.34	91	74-115
Hexachlorobutadiene	ug/L (ppb)	50	<0.46	83	67-120
Naphthalene	ug/L (ppb)	50	<0.28	106	63-136
1,2,3-Trichlorobenzene	ug/L (ppb)	50	<0.38	92	79-115

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/13/13

Date Received: 07/24/13

Project: Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307358

**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	110	111	54-149	1
Chloromethane	ug/L (ppb)	50	99	101	67-133	2
Vinyl chloride	ug/L (ppb)	50	95	96	73-132	1
Bromomethane	ug/L (ppb)	50	881 vo	933 vo	69-123	6
Chloroethane	ug/L (ppb)	50	156 vo	156 vo	68-126	0
Trichlorofluoromethane	ug/L (ppb)	50	123	125	70-132	2
Acetone	ug/L (ppb)	250	96	92	44-145	4
1,1-Dichloroethene	ug/L (ppb)	50	105	106	75-119	1
Methylene chloride	ug/L (ppb)	50	96	99	63-132	3
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	100	101	70-122	1
trans-1,2-Dichloroethene	ug/L (ppb)	50	98	98	76-118	0
1,1-Dichloroethane	ug/L (ppb)	50	99	100	80-116	1
2,2-Dichloropropane	ug/L (ppb)	50	104	109	62-141	5
cis-1,2-Dichloroethene	ug/L (ppb)	50	98	99	81-111	1
Chloroform	ug/L (ppb)	50	91	92	81-109	1
2-Butanone (MEK)	ug/L (ppb)	250	100	95	53-140	5
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	94	94	79-109	0
1,1,1-Trichloroethane	ug/L (ppb)	50	104	106	80-116	2
1,1-Dichloropropene	ug/L (ppb)	50	95	96	78-112	1
Carbon tetrachloride	ug/L (ppb)	50	107	111	72-128	4
Benzene	ug/L (ppb)	50	93	94	81-108	1
Trichloroethene	ug/L (ppb)	50	97	97	77-108	0
1,2-Dichloropropane	ug/L (ppb)	50	98	100	82-109	2
Bromodichloromethane	ug/L (ppb)	50	108	108	76-120	0
Dibromomethane	ug/L (ppb)	50	100	100	80-110	0
4-Methyl-2-pentanone	ug/L (ppb)	250	108	106	59-142	2
cis-1,3-Dichloropropene	ug/L (ppb)	50	111	111	76-128	0
Toluene	ug/L (ppb)	50	94	95	83-108	1
trans-1,3-Dichloropropene	ug/L (ppb)	50	112	112	76-128	0
1,1,2-Trichloroethane	ug/L (ppb)	50	99	100	82-110	1
2-Hexanone	ug/L (ppb)	250	102	101	53-145	1
1,3-Dichloropropane	ug/L (ppb)	50	96	96	83-110	0
Tetrachloroethene	ug/L (ppb)	50	94	95	78-109	1
Dibromochloromethane	ug/L (ppb)	50	112	114	63-140	2
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	105	104	85-113	1
Chlorobenzene	ug/L (ppb)	50	94	94	84-108	0
Ethylbenzene	ug/L (ppb)	50	95	97	84-110	2
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	104	107	76-125	3
m,p-Xylene	ug/L (ppb)	100	96	96	84-112	0
o-Xylene	ug/L (ppb)	50	97	98	82-113	1
Styrene	ug/L (ppb)	50	98	99	84-116	1
Isopropylbenzene	ug/L (ppb)	50	97	100	81-122	3
Bromoform	ug/L (ppb)	50	118	120	40-161	2
n-Propylbenzene	ug/L (ppb)	50	100	98	81-115	2
Bromobenzene	ug/L (ppb)	50	97	96	80-113	1
1,3,5-Trimethylbenzene	ug/L (ppb)	50	100	99	83-117	1
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	105	103	79-118	2
1,2,3-Trichloropropane	ug/L (ppb)	50	97	97	74-116	0
2-Chlorotoluene	ug/L (ppb)	50	98	97	79-112	1
4-Chlorotoluene	ug/L (ppb)	50	97	97	81-113	0
tert-Butylbenzene	ug/L (ppb)	50	103	103	81-119	0
1,2,4-Trimethylbenzene	ug/L (ppb)	50	100	99	83-116	1
sec-Butylbenzene	ug/L (ppb)	50	99	99	83-116	0
p-Isopropyltoluene	ug/L (ppb)	50	100	100	82-119	0
1,3-Dichlorobenzene	ug/L (ppb)	50	96	95	83-111	1
1,4-Dichlorobenzene	ug/L (ppb)	50	93	92	82-109	1
1,2-Dichlorobenzene	ug/L (ppb)	50	99	99	83-111	0
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	117	116	62-133	1
1,2,4-Trichlorobenzene	ug/L (ppb)	50	98	95	77-117	3
Hexachlorobutadiene	ug/L (ppb)	50	88	88	74-118	0
Naphthalene	ug/L (ppb)	50	105	104	75-131	1
1,2,3-Trichlorobenzene	ug/L (ppb)	50	98	96	82-115	2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/13/13

Date Received: 07/24/13

Project: Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307358

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
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	ug/L (ppb)	10	40	41	18-52	2
Bis(2-chloroethyl) ether	ug/L (ppb)	10	88	93	52-113	6
2-Chlorophenol	ug/L (ppb)	10	80	83	50-110	4
1,3-Dichlorobenzene	ug/L (ppb)	10	79	76	45-109	4
1,4-Dichlorobenzene	ug/L (ppb)	10	80	77	44-118	4
1,2-Dichlorobenzene	ug/L (ppb)	10	81	78	46-116	4
Benzyl alcohol	ug/L (ppb)	10	72	80	42-100	11
Bis(2-chloroisopropyl) ether	ug/L (ppb)	10	96	98	51-124	2
2-Methylphenol	ug/L (ppb)	10	73	67	38-100	9
Hexachloroethane	ug/L (ppb)	10	79	74	42-117	7
N-Nitroso-di-n-propylamine	ug/L (ppb)	10	84	93	48-124	10
3-Methylphenol + 4-Methylphenol	ug/L (ppb)	10	67	65	48-87	3
Nitrobenzene	ug/L (ppb)	10	88	94	50-118	7
Isophorone	ug/L (ppb)	10	90	96	55-116	6
2-Nitrophenol	ug/L (ppb)	10	87	95	42-127	9
2,4-Dimethylphenol	ug/L (ppb)	10	75	37 vo	45-100	68 vo
Benzoic acid	ug/L (ppb)	65	24	31	10-46	25 vo
Bis(2-chloroethoxy)methane	ug/L (ppb)	10	87	92	55-115	6
2,4-Dichlorophenol	ug/L (ppb)	10	88	92	55-113	4
1,2,4-Trichlorobenzene	ug/L (ppb)	10	82	77	50-109	6
Hexachlorobutadiene	ug/L (ppb)	10	85	77	50-109	10
4-Chloroaniline	ug/L (ppb)	20	78	80	30-109	3
4-Chloro-3-methylphenol	ug/L (ppb)	10	90	93	54-114	3
2-Methylnaphthalene	ug/L (ppb)	10	86	86	53-113	0
Hexachlorocyclopentadiene	ug/L (ppb)	10	69	61	26-94	12
2,4,6-Trichlorophenol	ug/L (ppb)	10	89	94	46-114	5
2,4,5-Trichlorophenol	ug/L (ppb)	10	91	96	57-122	5
2-Chloronaphthalene	ug/L (ppb)	10	84	87	52-112	4
2-Nitroaniline	ug/L (ppb)	10	93	104	47-128	11
Dimethyl phthalate	ug/L (ppb)	10	90	98	55-116	9
2,6-Dinitrotoluene	ug/L (ppb)	10	91	101	49-126	10
3-Nitroaniline	ug/L (ppb)	20	86	95	21-125	10
2,4-Dinitrophenol	ug/L (ppb)	10	89	102	29-130	14
Dibenzofuran	ug/L (ppb)	10	85	91	53-113	7
2,4-Dinitrotoluene	ug/L (ppb)	10	95	105	48-129	10
4-Nitrophenol	ug/L (ppb)	10	41	42	12-59	2
Diethyl phthalate	ug/L (ppb)	10	88	94	55-116	7
4-Chlorophenyl phenyl ether	ug/L (ppb)	10	88	93	52-115	6
N-Nitrosodiphenylamine	ug/L (ppb)	10	87	91	51-112	4
4-Nitroaniline	ug/L (ppb)	20	92	99	42-115	7
4,6-Dinitro-2-methylphenol	ug/L (ppb)	10	94	105	40-128	11
4-Bromophenyl phenyl ether	ug/L (ppb)	10	88	95	53-114	8
Hexachlorobenzene	ug/L (ppb)	10	85	93	54-115	9
Pentachlorophenol	ug/L (ppb)	10	110	114	49-114	4
Carbazole	ug/L (ppb)	10	88	94	54-115	7
Di-n-butyl phthalate	ug/L (ppb)	10	96	98	54-115	2
Benzyl butyl phthalate	ug/L (ppb)	10	100	102	53-122	2
Bis(2-ethylhexyl) phthalate	ug/L (ppb)	10	95	97	54-122	2
Di-n-octyl phthalate	ug/L (ppb)	10	96	88	50-131	9

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/13/13

Date Received: 07/24/13

Project: Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307358

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
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	ug/L (ppb)	1	80	84	67-116	5
Acenaphthylene	ug/L (ppb)	1	87	89	65-119	2
Acenaphthene	ug/L (ppb)	1	83	86	66-118	4
Fluorene	ug/L (ppb)	1	89	91	64-125	2
Phenanthrene	ug/L (ppb)	1	86	89	67-120	3
Anthracene	ug/L (ppb)	1	84	83	65-122	1
Fluoranthene	ug/L (ppb)	1	92	93	65-127	1
Pyrene	ug/L (ppb)	1	89	90	62-130	1
Benz(a)anthracene	ug/L (ppb)	1	82	84	60-118	2
Chrysene	ug/L (ppb)	1	87	90	66-125	3
Benzo(b)fluoranthene	ug/L (ppb)	1	80	81	55-135	1
Benzo(k)fluoranthene	ug/L (ppb)	1	79	85	62-125	7
Benzo(a)pyrene	ug/L (ppb)	1	73	73	58-127	0
Indeno(1,2,3-cd)pyrene	ug/L (ppb)	1	75	71	36-142	5
Dibenz(a,h)anthracene	ug/L (ppb)	1	73	64	37-133	13
Benzo(g,h,i)perylene	ug/L (ppb)	1	73	66	34-135	10

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/13/13

Date Received: 07/24/13

Project: Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307358

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Aroclor 1016	ug/L (ppb)	0.625	80	95	70-130	17
Aroclor 1260	ug/L (ppb)	0.625	86	94	70-130	9

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/13/13

Date Received: 07/24/13

Project: Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307358

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

Laboratory Code: 307309-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Beryllium	ug/L (ppb)	5	<0.0980	102	98	67-145	4
Chromium	ug/L (ppb)	20	0.165	92	90	64-132	2
Nickel	ug/L (ppb)	20	2.58	85	83	61-128	2
Copper	ug/L (ppb)	20	0.399	82	81	63-124	1
Zinc	ug/L (ppb)	50	0.773	82	80	55-141	2
Arsenic	ug/L (ppb)	10	3.17	100 b	97 b	60-150	3 b
Selenium	ug/L (ppb)	5	<0.560	103	101	43-178	2
Silver	ug/L (ppb)	5	<0.0640	92	89	71-115	3
Cadmium	ug/L (ppb)	5	<0.250	96	93	83-116	3
Antimony	ug/L (ppb)	20	0.408	93	92	62-125	1
Barium	ug/L (ppb)	50	84.8	103 b	90 b	79-126	13 b
Thallium	ug/L (ppb)	5	<0.0740	90	90	73-119	0
Lead	ug/L (ppb)	10	0.245	90	90	79-121	0

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Beryllium	ug/L (ppb)	5	93	73-135
Chromium	ug/L (ppb)	20	90	80-119
Nickel	ug/L (ppb)	20	90	79-122
Copper	ug/L (ppb)	20	91	81-119
Zinc	ug/L (ppb)	50	89	76-124
Arsenic	ug/L (ppb)	10	83	80-111
Selenium	ug/L (ppb)	5	92	81-119
Silver	ug/L (ppb)	5	90	80-116
Cadmium	ug/L (ppb)	5	90	83-113
Antimony	ug/L (ppb)	20	85	79-108
Barium	ug/L (ppb)	50	91	83-117
Thallium	ug/L (ppb)	5	85	78-116
Lead	ug/L (ppb)	10	87	83-115

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/13/13

Date Received: 07/24/13

Project: Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307358

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

Laboratory Code: 307358-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Mercury	ug/L (ppb)	0.010	0.0025	105	105	63-132	0

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Mercury	ug/L (ppb)	0.010	106	78-118

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/13/13

Date Received: 07/24/13

Project: Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307358

**QUALITY ASSURANCE RESULTS
FROM THE ANALYSIS OF WATER SAMPLES FOR
TOTAL SUSPENDED SOLIDS
BY METHOD 2540D**

Laboratory Code: 307358-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
TSS	mg/L	<10	<10	nm	0-20

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
TSS	mg/L	50	96	99	61-131	3

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

August 5, 2013

Michele Costales Poquiz
Friedman & Bruya
3012 16th Ave W
Seattle, WA 98119

RE: Project: 307358
ARI Job No.: WY66

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 three water samples on July 25, 2013, under ARI job WY66. For further details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

The samples were analyzed for chloride and TOC, as requested on the COC.

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.

A handwritten signature in black ink, appearing to read "Cheronne Oreiro".

Cheronne Oreiro
Project Manager
(206) 695-6214
cheronneo@arilabs.com
www.arilabs.com

cc: eFile WY66

Enclosures

Wyle

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. 307358 PO # C-483
 REMARKS
 Please e-mail results
 ELECTRONIC DATA REQUESTED (EIM)

TURNAROUND TIME
 Standard Turnaround
 RUSH
 Rush charges authorized by: _____
 SAMPLE DISPOSAL
 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										Notes								
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOcs by 8270	HFS	Hexavalent Cr by 7196A	Total Organic Carbon by 9060M	TDS by 2540C	Chloride by SM4500									
Seep-1		7/24/13	1030	water	2																			
Seep-2		↓	1005	↓	↓																			
Seep-3		↓	1050	↓	↓																			

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

FORMS\COC\COC SLRC.DOC

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>Michele Costales Poquiz</u>	Michele Costales Poquiz	F&B	7/25/13	8:22 AM
Received by: <u>[Signature]</u>	A. Volgardsen	ARI	7/25/13	1100
Relinquished by:				
Received by:				



Cooler Receipt Form

ARI Client: Friedman + Bruya

Project Name: _____

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: Postal Ex

Assigned ARI Job No: WY66

Tracking No: 4538993 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)..... 5.6

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 90877952

Cooler Accepted by: AV Date: 7/25/13 Time: 1100

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: _____

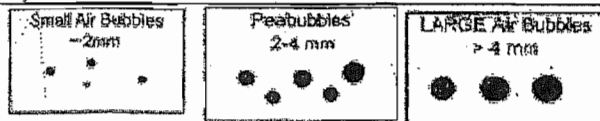
Samples Logged by: AV Date: 7/25/13 Time: 1111

**** 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"



ARI Job No: **WY66**
 PC: Cheronne
 VTSR: 07/25/13

Inquiry Number: NONE
 Analysis Requested: 07/25/13
 Contact: Poquiz, Michele
 Client: Friedman and Bruya, Inc
 Logged by: AV
 Sample Set Used: Yes-481
 Validatable Package: No
 Deliverables:

Project #: 307358
 Project:
 Sample Site:
 SDG No:
 Analytical Protocol: In-house

LOGNUM	ARI ID	CLIENT ID	CN	WAD	NH3	COD	FOG	MET	PHEN	PHOS	TKN	NO23	TOC	S2	TPHD	Fe2+	DMET DOC	FLT	FLT	PARAMETER	ADJUSTED	LOT	AMOUNT	DATE/BY
			>12	>12	<2	<2	<2	<2	<2	<2	<2	<2	<2	>9	<2	<2	FLT	FLT		TO	NUMBER	ADDED		
13-15590	WY66A	SEEP-1											YES											
13-15591	WY66B	SEEP-2											YES											
13-15592	WY66C	SEEP-3											YES											

Handwritten signature: A. ...

Sample ID Cross Reference Report



ARI Job No: WY66
Client: Friedman and Bruya, Inc
Project Event: 307358
Project Name: N/A

Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1. SEEP-1	WY66A	13-15590	Water	07/24/13 10:30	07/25/13 11:00
2. SEEP-2	WY66B	13-15591	Water	07/24/13 10:05	07/25/13 11:00
3. SEEP-3	WY66C	13-15592	Water	07/24/13 10:50	07/25/13 11:00

SAMPLE RESULTS-CONVENTIONALS
WY66-Friedman and Bruya, Inc



Matrix: Water
Data Release Authorized
Reported: 08/05/13

Project: NA
Event: 307358
Date Sampled: 07/24/13
Date Received: 07/25/13

Client ID: SEEP-1
ARI ID: 13-15590 WY66A

Analyte	Date Batch	Method	Units	RL	Sample
Chloride	08/02/13 080213#1	SM4500-CLE	mg/L	2,000	9,650
Total Organic Carbon	07/25/13 072513#1	EPA 9060M	mg/L	1.50	< 1.50 U

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
WY66-Friedman and Bruya, Inc



Matrix: Water
Data Release Authorized
Reported: 08/05/13

A handwritten signature in black ink, appearing to be a stylized 'J' or 'K' followed by a flourish.

Project: NA
Event: 307358
Date Sampled: 07/24/13
Date Received: 07/25/13


Client ID: SEEP-2
ARI ID: 13-15591 WY66B

Analyte	Date Batch	Method	Units	RL	Sample
Chloride	08/02/13 080213#1	SM4500-CLE	mg/L	2,000	9,710
Total Organic Carbon	07/25/13 072513#1	EPA 9060M	mg/L	1.50	< 1.50 U

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
WY66-Friedman and Bruya, Inc



Matrix: Water
Data Release Authorized: 
Reported: 08/05/13

Project: NA
Event: 307358
Date Sampled: 07/24/13
Date Received: 07/25/13


Client ID: SEEP-3
ARI ID: 13-15592 WY66C

Analyte	Date Batch	Method	Units	RL	Sample
Chloride	08/02/13 080213#1	SM4500-CLE	mg/L	2,000	8,100
Total Organic Carbon	07/25/13 072513#1	EPA 9060M	mg/L	1.50	< 1.50 U

RL Analytical reporting limit
U Undetected at reported detection limit

METHOD BLANK RESULTS-CONVENTIONALS
WY66-Friedman and Bruya, Inc



Matrix: Water
Data Release Authorized: 
Reported: 08/05/13

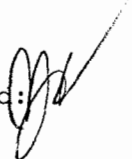
Project: NA
Event: 307358
Date Sampled: NA
Date Received: NA

Analyte	Method	Date	Units	Blank	ID
Chloride	SM4500-CLE	08/02/13	mg/L	< 1.0 U	FB
Total Organic Carbon	EPA 9060M	07/25/13	mg/L	< 1.50 U	

FB Filtration Blank

STANDARD REFERENCE RESULTS-CONVENTIONALS
WY66-Friedman and Bruya, Inc



Matrix: Water
Data Release Authorized: 
Reported: 08/05/13

Project: NA
Event: 307358
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Method	Date	Units	SRM	True Value	Recovery
Chloride ERA #411010	SM4500-CLE	08/02/13	mg/L	4.9	5.0	98.0%
Total Organic Carbon ERA #0408-13-02	EPA 9060M	07/25/13	mg/L	21.6	20.0	108.0%

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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fbi@isomedia.com
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August 12, 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 July 23, 2013 from the Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307333 project. There are 34 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
Chemist

Enclosures
SLR0812R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on July 23, 2013 by Friedman & Bruya, Inc. from the SLR International Corp. Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307333 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
307333-01	Seep-4
307333-02	Seep-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

The relative percent difference (RPD) for the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) failed high. The samples were non-detect therefore the results are valid.

Volatile Compounds by EPA Method 8260C

The calibration result for bromomethane fell outside of acceptance criteria. The values reported are estimates.

The presence of 1,4-dichlorobenzene in the method blank is likely due to laboratory contamination. The result has been flagged accordingly.

The percent recovery for the matrix spike (MS), matrix spike duplicate (MSD), LCS, and LCSD failed high for several compounds. The samples were non-detect for these compounds, therefore the results are valid.

Semivolatile Organic Compounds by EPA Method 8270D

The presence of bis(2-ethylhexyl) phthalate in the samples is likely due to laboratory contamination. The results have been flagged accordingly.

The percent recovery for the LCSD and the RPD for the LCS/LCSD exceeded acceptance criteria for 2,4-dimethylphenol and benzoic acid. The results have been flagged accordingly.

Semivolatile Organic Compounds by EPA Method 8270D SIM

All quality control requirements were acceptable.

Polychlorinated Biphenyls as Aroclor 1016/1260 by EPA Method 8082A

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

All quality control requirements were acceptable.

Total Metals by EPA Method 200.8

The internal standards associated with several analytes exceeded acceptance criteria for the samples Seep-4 and Seep-5. The samples were diluted and reanalyzed. The results from the original analysis and the re-analysis are included.

Total Mercury by EPA Method 1631E

All quality control requirements were acceptable.

Total Dissolved Solids by Method 2540D

All quality control requirements were acceptable.

Total Organic Carbon by EPA Method 9060M

The report generated by Analytical Resources, Inc. is enclosed.

Chloride by Method SM4500

The report generated by Analytical Resources, Inc. is enclosed.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/12/13

Date Received: 07/23/13

Project: Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307333

Date Extracted: 07/24/13

Date Analyzed: 07/24/13

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

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	Surrogate (% Recovery) (Limit 51-134)
Seep-4 307333-01	<12	95
Seep-5 307333-02	<12	98
Method Blank 03-1443 MB	<12	91

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/12/13

Date Received: 07/23/13

Project: Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307333

Date Extracted: 07/29/13

Date Analyzed: 07/30/13

**RESULTS FROM THE ANALYSIS OF WATER 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 as ug/L (ppb)**

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> (% Recovery) (Limit 51-134)
Seep-4 307333-01	<6.9	<52	87
Seep-5 307333-02	<6.9	<52	82
Method Blank 03-1477 MB	<6.9	<52	74

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Seep-4	Client:	SLR International Corp.
Date Received:	07/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/24/13	Lab ID:	307333-01
Date Analyzed:	07/24/13	Data File:	072426.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	100	50	150
4-Bromofluorobenzene	98	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	0.15	Dibromochloromethane	<0.24
Bromomethane	<0.2 ca j	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 j
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:	Seep-5	Client:	SLR International Corp.
Date Received:	07/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/24/13	Lab ID:	307333-02
Date Analyzed:	07/24/13	Data File:	072427.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	50	150
Toluene-d8	102	50	150
4-Bromofluorobenzene	100	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 ca j	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 j
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 101.00205.00030
Date Extracted:	07/24/13	Lab ID:	03-1328 mb
Date Analyzed:	07/24/13	Data File:	072425.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	97	50	150
4-Bromofluorobenzene	98	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 ca j	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	0.12 lc
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 Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	Seep-4	Client:	SLR International Corp.
Date Received:	07/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/30/13	Lab ID:	307333-01
Date Analyzed:	08/02/13	Data File:	080214.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	47	32	162
Phenol-d6	34	10	170
Nitrobenzene-d5	104	50	150
2-Fluorobiphenyl	105	43	158
2,4,6-Tribromophenol	91	43	146
Terphenyl-d14	107	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28 jl	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.51 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	Seep-5	Client:	SLR International Corp.
Date Received:	07/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/30/13	Lab ID:	307333-02
Date Analyzed:	08/02/13	Data File:	080215.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	48	32	162
Phenol-d6	35	10	170
Nitrobenzene-d5	107	50	150
2-Fluorobiphenyl	104	43	158
2,4,6-Tribromophenol	110	43	146
Terphenyl-d14	105	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28 jl	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.55 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

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 101.00205.00030
Date Extracted:	07/30/13	Lab ID:	03-1486 mb
Date Analyzed:	08/02/13	Data File:	080213.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	30	32	162
Phenol-d6	25	10	170
Nitrobenzene-d5	89	50	150
2-Fluorobiphenyl	88	43	158
2,4,6-Tribromophenol	63	43	146
Terphenyl-d14	95	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28 jl	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.18 lc
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Seep-4	Client:	SLR International Corp.
Date Received:	07/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/30/13	Lab ID:	307333-01
Date Analyzed:	07/31/13	Data File:	073109.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	86	50	150
Benzo(a)anthracene-d12	100	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.0051
Acenaphthylene	<0.0024
Acenaphthene	0.035
Fluorene	<0.004
Phenanthrene	0.011
Anthracene	<0.0028
Fluoranthene	0.019
Pyrene	0.021
Benz(a)anthracene	0.0088
Chrysene	0.011
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	0.014
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	0.0078
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	0.0078

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Seep-5	Client:	SLR International Corp.
Date Received:	07/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/30/13	Lab ID:	307333-02
Date Analyzed:	07/31/13	Data File:	073110.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	93	50	150
Benzo(a)anthracene-d12	107	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.0056
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	0.0067
Anthracene	<0.0028
Fluoranthene	<0.0046
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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:	07/30/13	Lab ID:	03-1487 mb
Date Analyzed:	07/31/13	Data File:	073108.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	92	50	150
Benzo(a)anthracene-d12	99	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.004
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	<0.0028
Fluoranthene	<0.0046
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082

Client Sample ID:	Seep-4	Client:	SLR International Corp.
Date Received:	07/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/29/13	Lab ID:	307333-01 1/0.25
Date Analyzed:	07/30/13	Data File:	14.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	mwdl

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

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082

Client Sample ID:	Seep-5	Client:	SLR International Corp.
Date Received:	07/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/29/13	Lab ID:	307333-02 1/0.25
Date Analyzed:	07/30/13	Data File:	16.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	mwdl

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

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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:	07/29/13	Lab ID:	03-1480 mb 1/0.25
Date Analyzed:	07/30/13	Data File:	073012.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	mwdl

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

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Seep-4	Client:	SLR International Corp.
Date Received:	07/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/24/13	Lab ID:	307333-01
Date Analyzed:	08/01/13	Data File:	307333-01.051
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	47 vo	60	125
Indium	46 vo	60	125
Holmium	45 vo	60	125

Analyte:	Concentration ug/L (ppb)
Silver	<0.0640 J
Cadmium	<0.250 J
Thallium	<0.0740 J
Lead	<0.144 J

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Seep-4	Client:	SLR International Corp.
Date Received:	07/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/24/13	Lab ID:	307333-01 x10
Date Analyzed:	08/01/13	Data File:	307333-01 x10.054
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	79	60	125
Indium	76	60	125
Holmium	81	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	1.89
Nickel	6.02
Copper	39.8
Zinc	7.39
Arsenic	29.6
Selenium	114
Silver	<0.640
Cadmium	<2.50
Antimony	<0.520
Barium	15.0
Thallium	<0.740
Lead	<1.44

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Seep-5	Client:	SLR International Corp.
Date Received:	07/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/24/13	Lab ID:	307333-02
Date Analyzed:	08/01/13	Data File:	307333-02.052
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	47 vo	60	125
Indium	47 vo	60	125
Holmium	47 vo	60	125

Analyte:	Concentration ug/L (ppb)
Silver	<0.0640 J
Cadmium	<0.250 J
Thallium	<0.0740 J
Lead	<0.144 J

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Seep-5	Client:	SLR International Corp.
Date Received:	07/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/24/13	Lab ID:	307333-02 x10
Date Analyzed:	08/01/13	Data File:	307333-02 x10.055
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	77	60	125
Indium	75	60	125
Holmium	80	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	2.16
Nickel	5.85
Copper	35.7
Zinc	10.8
Arsenic	28.3
Selenium	106
Silver	<0.640
Cadmium	<2.50
Antimony	0.970
Barium	51.9
Thallium	<0.740
Lead	<1.44

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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:	07/24/13	Lab ID:	I3-449 mb
Date Analyzed:	08/01/13	Data File:	I3-449 mb.040
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	90	60	125
Indium	92	60	125
Holmium	94	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	<0.138
Nickel	<0.460
Copper	<0.340
Zinc	<0.600
Arsenic	<0.150
Selenium	<0.560
Silver	<0.0640
Cadmium	<0.250
Antimony	<0.0520 j
Barium	<0.260
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/12/13

Date Received: 07/23/13

Project: Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307333

Date Extracted: 07/24/13

Date Analyzed: 07/25/13

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL MERCURY
USING EPA METHOD 1631E**
Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Total Mercury</u>
Seep-4 307333-01	0.0016
Seep-5 307333-02	0.0023
Method Blank	<0.0015

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/12/13

Date Received: 07/23/13

Project: Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307333

Date Extracted: NA

Date Analyzed: 07/30/13

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL SUSPENDED SOLIDS
BY METHOD 2540D**

Results Reported as mg/L (ppm)

<u>Sample ID</u> Laboratory ID	Total Suspended <u>Solids</u>
Seep-4 307333-01	<10
Seep-5 307333-02	<10
Method Blank	<10

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/12/13

Date Received: 07/23/13

Project: Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307333

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TPH AS GASOLINE
USING METHOD NWTPH-Gx**

Laboratory Code: 307333-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Gasoline	ug/L (ppb)	<12	<12	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	ug/L (ppb)	1,000	101	69-134

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/12/13

Date Received: 07/23/13

Project: Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307333

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

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	60	83	58-134	32 vo

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/12/13

Date Received: 07/23/13

Project: Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307333

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

Laboratory Code: 307333-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Dichlorodifluoromethane	ug/L (ppb)	50	<0.16	123	55-144
Chloromethane	ug/L (ppb)	50	<0.22	104	67-131
Vinyl chloride	ug/L (ppb)	50	0.15	104	61-139
Bromomethane	ug/L (ppb)	50	<0.2	1039 vo	66-129
Chloroethane	ug/L (ppb)	50	<0.18	168 vo	68-126
Trichlorofluoromethane	ug/L (ppb)	50	<0.17	133 vo	71-128
Acetone	ug/L (ppb)	250	<2.6	97	48-149
1,1-Dichloroethene	ug/L (ppb)	50	<0.19	108	71-123
Methylene chloride	ug/L (ppb)	50	<3	99	61-126
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	<0.13	103	68-125
trans-1,2-Dichloroethene	ug/L (ppb)	50	<0.24	101	72-122
1,1-Dichloroethane	ug/L (ppb)	50	<0.18	102	79-113
2,2-Dichloropropane	ug/L (ppb)	50	<0.3	107	58-132
cis-1,2-Dichloroethene	ug/L (ppb)	50	<0.24	100	73-119
Chloroform	ug/L (ppb)	50	<0.24	93	80-112
2-Butanone (MEK)	ug/L (ppb)	250	<0.94	99	69-123
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<0.11	97	78-113
1,1,1-Trichloroethane	ug/L (ppb)	50	<0.2	108	79-116
1,1-Dichloropropene	ug/L (ppb)	50	<0.26	95	67-121
Carbon tetrachloride	ug/L (ppb)	50	<0.24	113	72-123
Benzene	ug/L (ppb)	50	<0.13	95	79-109
Trichloroethene	ug/L (ppb)	50	<0.17	96	75-109
1,2-Dichloropropane	ug/L (ppb)	50	<0.32	101	80-111
Bromodichloromethane	ug/L (ppb)	50	<0.38	113	78-117
Dibromomethane	ug/L (ppb)	50	<0.28	104	80-112
4-Methyl-2-pentanone	ug/L (ppb)	250	<1.3	124 vo	79-123
cis-1,3-Dichloropropene	ug/L (ppb)	50	<0.2	113	76-120
Toluene	ug/L (ppb)	50	<0.13	93	73-117
trans-1,3-Dichloropropene	ug/L (ppb)	50	<0.34	112	75-122
1,1,2-Trichloroethane	ug/L (ppb)	50	<0.28	102	81-111
2-Hexanone	ug/L (ppb)	250	<1	119	75-126
1,3-Dichloropropane	ug/L (ppb)	50	<0.2	98	81-111
Tetrachloroethene	ug/L (ppb)	50	<0.28	94	72-113
Dibromochloromethane	ug/L (ppb)	50	<0.24	116	69-129
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	<0.24	108	83-114
Chlorobenzene	ug/L (ppb)	50	<0.1	95	75-115
Ethylbenzene	ug/L (ppb)	50	<0.16	96	71-120
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	<0.32	104	78-122
m,p-Xylene	ug/L (ppb)	100	<0.5	96	63-128
o-Xylene	ug/L (ppb)	50	<0.22	97	64-129
Styrene	ug/L (ppb)	50	<0.22	99	70-122
Isopropylbenzene	ug/L (ppb)	50	<0.15	97	76-118
Bromoform	ug/L (ppb)	50	<0.22	125	49-138
n-Propylbenzene	ug/L (ppb)	50	<0.14	99	74-117
Bromobenzene	ug/L (ppb)	50	<0.18	99	70-121
1,3,5-Trimethylbenzene	ug/L (ppb)	50	<0.18	98	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	98	77-114
4-Chlorotoluene	ug/L (ppb)	50	<0.16	97	81-109
tert-Butylbenzene	ug/L (ppb)	50	<0.15	100	81-116
1,2,4-Trimethylbenzene	ug/L (ppb)	50	<0.11	98	74-118
sec-Butylbenzene	ug/L (ppb)	50	<0.12	97	77-118
p-Isopropyltoluene	ug/L (ppb)	50	<0.15	97	64-132
1,3-Dichlorobenzene	ug/L (ppb)	50	<0.15	95	81-111
1,4-Dichlorobenzene	ug/L (ppb)	50	<0.094	92	78-110
1,2-Dichlorobenzene	ug/L (ppb)	50	<0.13	98	81-111
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	<0.44	118	69-129
1,2,4-Trichlorobenzene	ug/L (ppb)	50	<0.34	91	74-115
Hexachlorobutadiene	ug/L (ppb)	50	<0.46	83	67-120
Naphthalene	ug/L (ppb)	50	<0.28	106	63-136
1,2,3-Trichlorobenzene	ug/L (ppb)	50	<0.38	92	79-115

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/12/13

Date Received: 07/23/13

Project: Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307333

**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	110	111	54-149	1
Chloromethane	ug/L (ppb)	50	99	101	67-133	2
Vinyl chloride	ug/L (ppb)	50	95	96	73-132	1
Bromomethane	ug/L (ppb)	50	881 vo	933 vo	69-123	6
Chloroethane	ug/L (ppb)	50	156 vo	156 vo	68-126	0
Trichlorofluoromethane	ug/L (ppb)	50	123	125	70-132	2
Acetone	ug/L (ppb)	250	96	92	44-145	4
1,1-Dichloroethene	ug/L (ppb)	50	105	106	75-119	1
Methylene chloride	ug/L (ppb)	50	96	99	63-132	3
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	100	101	70-122	1
trans-1,2-Dichloroethene	ug/L (ppb)	50	98	98	76-118	0
1,1-Dichloroethane	ug/L (ppb)	50	99	100	80-116	1
2,2-Dichloropropane	ug/L (ppb)	50	104	109	62-141	5
cis-1,2-Dichloroethene	ug/L (ppb)	50	98	99	81-111	1
Chloroform	ug/L (ppb)	50	91	92	81-109	1
2-Butanone (MEK)	ug/L (ppb)	250	100	95	53-140	5
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	94	94	79-109	0
1,1,1-Trichloroethane	ug/L (ppb)	50	104	106	80-116	2
1,1-Dichloropropene	ug/L (ppb)	50	95	96	78-112	1
Carbon tetrachloride	ug/L (ppb)	50	107	111	72-128	4
Benzene	ug/L (ppb)	50	93	94	81-108	1
Trichloroethene	ug/L (ppb)	50	97	97	77-108	0
1,2-Dichloropropane	ug/L (ppb)	50	98	100	82-109	2
Bromodichloromethane	ug/L (ppb)	50	108	108	76-120	0
Dibromomethane	ug/L (ppb)	50	100	100	80-110	0
4-Methyl-2-pentanone	ug/L (ppb)	250	108	106	59-142	2
cis-1,3-Dichloropropene	ug/L (ppb)	50	111	111	76-128	0
Toluene	ug/L (ppb)	50	94	95	83-108	1
trans-1,3-Dichloropropene	ug/L (ppb)	50	112	112	76-128	0
1,1,2-Trichloroethane	ug/L (ppb)	50	99	100	82-110	1
2-Hexanone	ug/L (ppb)	250	102	101	53-145	1
1,3-Dichloropropane	ug/L (ppb)	50	96	96	83-110	0
Tetrachloroethene	ug/L (ppb)	50	94	95	78-109	1
Dibromochloromethane	ug/L (ppb)	50	112	114	63-140	2
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	105	104	85-113	1
Chlorobenzene	ug/L (ppb)	50	94	94	84-108	0
Ethylbenzene	ug/L (ppb)	50	95	97	84-110	2
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	104	107	76-125	3
m,p-Xylene	ug/L (ppb)	100	96	96	84-112	0
o-Xylene	ug/L (ppb)	50	97	98	82-113	1
Styrene	ug/L (ppb)	50	98	99	84-116	1
Isopropylbenzene	ug/L (ppb)	50	97	100	81-122	3
Bromoform	ug/L (ppb)	50	118	120	40-161	2
n-Propylbenzene	ug/L (ppb)	50	100	98	81-115	2
Bromobenzene	ug/L (ppb)	50	97	96	80-113	1
1,3,5-Trimethylbenzene	ug/L (ppb)	50	100	99	83-117	1
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	105	103	79-118	2
1,2,3-Trichloropropane	ug/L (ppb)	50	97	97	74-116	0
2-Chlorotoluene	ug/L (ppb)	50	98	97	79-112	1
4-Chlorotoluene	ug/L (ppb)	50	97	97	81-113	0
tert-Butylbenzene	ug/L (ppb)	50	103	103	81-119	0
1,2,4-Trimethylbenzene	ug/L (ppb)	50	100	99	83-116	1
sec-Butylbenzene	ug/L (ppb)	50	99	99	83-116	0
p-Isopropyltoluene	ug/L (ppb)	50	100	100	82-119	0
1,3-Dichlorobenzene	ug/L (ppb)	50	96	95	83-111	1
1,4-Dichlorobenzene	ug/L (ppb)	50	93	92	82-109	1
1,2-Dichlorobenzene	ug/L (ppb)	50	99	99	83-111	0
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	117	116	62-133	1
1,2,4-Trichlorobenzene	ug/L (ppb)	50	98	95	77-117	3
Hexachlorobutadiene	ug/L (ppb)	50	88	88	74-118	0
Naphthalene	ug/L (ppb)	50	105	104	75-131	1
1,2,3-Trichlorobenzene	ug/L (ppb)	50	98	96	82-115	2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/12/13

Date Received: 07/23/13

Project: Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307333

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
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	ug/L (ppb)	10	40	41	18-52	2
Bis(2-chloroethyl) ether	ug/L (ppb)	10	88	93	52-113	6
2-Chlorophenol	ug/L (ppb)	10	80	83	50-110	4
1,3-Dichlorobenzene	ug/L (ppb)	10	79	76	44-118	4
1,4-Dichlorobenzene	ug/L (ppb)	10	80	77	45-109	4
1,2-Dichlorobenzene	ug/L (ppb)	10	81	78	46-116	4
Benzyl alcohol	ug/L (ppb)	10	72	80	42-100	11
Bis(2-chloroisopropyl) ether	ug/L (ppb)	10	96	98	51-124	2
2-Methylphenol	ug/L (ppb)	10	73	67	38-100	9
Hexachloroethane	ug/L (ppb)	10	79	74	42-117	7
N-Nitroso-di-n-propylamine	ug/L (ppb)	10	84	93	48-124	10
3-Methylphenol + 4-Methylphenol	ug/L (ppb)	10	67	65	48-87	3
Nitrobenzene	ug/L (ppb)	10	88	94	50-118	7
Isophorone	ug/L (ppb)	10	90	96	55-116	6
2-Nitrophenol	ug/L (ppb)	10	87	95	42-127	9
2,4-Dimethylphenol	ug/L (ppb)	10	75	37 vo	45-100	68 vo
Benzoic acid	ug/L (ppb)	65	24	31	10-46	25 vo
Bis(2-chloroethoxy)methane	ug/L (ppb)	10	87	92	55-115	6
2,4-Dichlorophenol	ug/L (ppb)	10	88	92	55-113	4
1,2,4-Trichlorobenzene	ug/L (ppb)	10	82	77	50-109	6
Hexachlorobutadiene	ug/L (ppb)	10	85	77	50-109	10
4-Chloroaniline	ug/L (ppb)	20	78	80	30-109	3
4-Chloro-3-methylphenol	ug/L (ppb)	10	90	93	54-114	3
2-Methylnaphthalene	ug/L (ppb)	10	86	86	53-113	0
Hexachlorocyclopentadiene	ug/L (ppb)	10	69	61	26-94	12
2,4,6-Trichlorophenol	ug/L (ppb)	10	89	94	46-114	5
2,4,5-Trichlorophenol	ug/L (ppb)	10	91	96	57-122	5
2-Chloronaphthalene	ug/L (ppb)	10	84	87	52-112	4
2-Nitroaniline	ug/L (ppb)	10	93	104	47-128	11
Dimethyl phthalate	ug/L (ppb)	10	90	98	55-116	9
2,6-Dinitrotoluene	ug/L (ppb)	10	91	101	49-126	10
3-Nitroaniline	ug/L (ppb)	20	86	95	21-125	10
2,4-Dinitrophenol	ug/L (ppb)	10	89	102	29-130	14
Dibenzofuran	ug/L (ppb)	10	85	91	53-113	7
2,4-Dinitrotoluene	ug/L (ppb)	10	95	105	48-129	10
4-Nitrophenol	ug/L (ppb)	10	41	42	12-59	2
Diethyl phthalate	ug/L (ppb)	10	88	94	55-116	7
4-Chlorophenyl phenyl ether	ug/L (ppb)	10	88	93	52-115	6
N-Nitrosodiphenylamine	ug/L (ppb)	10	87	91	51-112	4
4-Nitroaniline	ug/L (ppb)	20	92	99	42-115	7
4,6-Dinitro-2-methylphenol	ug/L (ppb)	10	94	105	40-128	11
4-Bromophenyl phenyl ether	ug/L (ppb)	10	88	95	53-114	8
Hexachlorobenzene	ug/L (ppb)	10	85	93	54-115	9
Pentachlorophenol	ug/L (ppb)	10	110	114	49-114	4
Carbazole	ug/L (ppb)	10	88	94	54-115	7
Di-n-butyl phthalate	ug/L (ppb)	10	96	98	54-115	2
Benzyl butyl phthalate	ug/L (ppb)	10	100	102	53-122	2
Bis(2-ethylhexyl) phthalate	ug/L (ppb)	10	95	97	54-122	2
Di-n-octyl phthalate	ug/L (ppb)	10	96	88	50-131	9

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/12/13

Date Received: 07/23/13

Project: Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307333

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
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	ug/L (ppb)	1	80	84	67-116	5
Acenaphthylene	ug/L (ppb)	1	87	89	65-119	2
Acenaphthene	ug/L (ppb)	1	83	86	66-118	4
Fluorene	ug/L (ppb)	1	89	91	64-125	2
Phenanthrene	ug/L (ppb)	1	86	89	67-120	3
Anthracene	ug/L (ppb)	1	84	83	65-122	1
Fluoranthene	ug/L (ppb)	1	92	93	65-127	1
Pyrene	ug/L (ppb)	1	89	90	62-130	1
Benz(a)anthracene	ug/L (ppb)	1	82	84	60-118	2
Chrysene	ug/L (ppb)	1	87	90	66-125	3
Benzo(b)fluoranthene	ug/L (ppb)	1	80	81	55-135	1
Benzo(k)fluoranthene	ug/L (ppb)	1	79	85	62-125	7
Benzo(a)pyrene	ug/L (ppb)	1	73	73	58-127	0
Indeno(1,2,3-cd)pyrene	ug/L (ppb)	1	75	71	36-142	5
Dibenz(a,h)anthracene	ug/L (ppb)	1	73	64	37-133	13
Benzo(g,h,i)perylene	ug/L (ppb)	1	73	66	34-135	10

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/12/13

Date Received: 07/23/13

Project: Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307333

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Aroclor 1016	ug/L (ppb)	0.625	80	95	70-130	17
Aroclor 1260	ug/L (ppb)	0.625	86	94	70-130	9

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/12/13

Date Received: 07/23/13

Project: Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307333

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

Laboratory Code: 307177-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Beryllium	ug/L (ppb)	5	<0.0980	113	113	67-145	0
Chromium	ug/L (ppb)	20	0.667	90	91	64-132	1
Nickel	ug/L (ppb)	20	0.959	83	84	61-128	1
Copper	ug/L (ppb)	20	0.904	83	84	63-124	1
Zinc	ug/L (ppb)	50	1.11	83	84	55-141	1
Arsenic	ug/L (ppb)	10	1.47	100	104	60-150	4
Selenium	ug/L (ppb)	5	<0.560	100	104	43-178	4
Silver	ug/L (ppb)	5	<0.0640	93	97	71-115	4
Cadmium	ug/L (ppb)	5	0.562	99	102	83-116	3
Antimony	ug/L (ppb)	20	0.401	88	92	62-125	4
Barium	ug/L (ppb)	50	8.25	99	103	79-126	4
Thallium	ug/L (ppb)	5	<0.0740	92	93	73-119	1
Lead	ug/L (ppb)	10	<0.144	93	95	79-121	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Beryllium	ug/L (ppb)	5	104	73-135
Chromium	ug/L (ppb)	20	86	80-119
Nickel	ug/L (ppb)	20	83	79-122
Copper	ug/L (ppb)	20	85	81-119
Zinc	ug/L (ppb)	50	81	76-124
Arsenic	ug/L (ppb)	10	85	80-111
Selenium	ug/L (ppb)	5	90	81-119
Silver	ug/L (ppb)	5	92	80-116
Cadmium	ug/L (ppb)	5	92	83-113
Antimony	ug/L (ppb)	20	88	79-108
Barium	ug/L (ppb)	50	92	83-117
Thallium	ug/L (ppb)	5	85	78-116
Lead	ug/L (ppb)	10	87	83-115

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/12/13

Date Received: 07/23/13

Project: Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307333

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

Laboratory Code: 307333-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Mercury	ug/L (ppb)	0.010	0.0016	95	98	63-132	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Mercury	ug/L (ppb)	0.010	99	78-118

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/12/13

Date Received: 07/23/13

Project: Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307333

**QUALITY ASSURANCE RESULTS
FROM THE ANALYSIS OF WATER SAMPLES FOR
TOTAL SUSPENDED SOLIDS
BY METHOD 2540D**

Laboratory Code: 307358-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
TSS	mg/L	<10	<10	na	0-20

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
TSS	mg/L	50	96	99	61-131	3

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

August 5, 2013

Michele Costales Poquiz
Friedman & Bruya
3012 16th Ave W
Seattle, WA 98119

RE: Project: 307333
ARI Job No.: WY50

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 two water samples on July 24, 2013, under ARI job WY50. For further details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

The samples were analyzed for chloride and TOC, as requested on the COC.

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.

A handwritten signature in black ink, appearing to read "Cheronne Oreiro", written over a horizontal line.

Cheronne Oreiro
Project Manager
(206) 695-6214
cheronneo@arilabs.com
www.arilabs.com

cc: eFile WY50

Enclosures



Cooler Receipt Form

ARI Client: Friedman + Bruya
COC No(s): _____ (NA)
Assigned ARI Job No: WY50

Project Name: _____
Delivered by: Fed-Ex UPS Courier Hand Delivered Other Postal Ex
Tracking No: 4558246 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)..... 6.0

If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 9087795

Cooler Accepted by: AV Date: 7/24/13 Time: 1250

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: _____

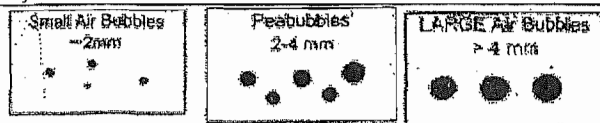
Samples Logged by: AV Date: 7/24/13 Time: 1431

**** 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"

PRESERVATION VERIFICATION 07/24/13

Page 1 of 1



ARI Job No: **WY50**
 PC: Cheronne
 VTSR: 07/24/13

Inquiry Number: NONE
 Analysis Requested: 07/24/13
 Contact: Poquiz, Michele
 Client: Friedman and Bruya, Inc
 Logged by: AV
 Sample Set Used: Yes-481
 Validatable Package: No
 Deliverables:

Project #: 307333
 Project:
 Sample Site:
 SDG No:
 Analytical Protocol: In-house

LOGNUM ARI ID	CLIENT ID	CN >12	WAD >12	NH3 <2	COD <2	FOG <2	MET <2	PHEN <2	PHOS <2	TKN <2	NO23 <2	TOC <2	S2 >9	TPHD <2	Fe2+ <2	DMET DOC FLT FLT	PARAMETER	ADJUSTED TO	LOT NUMBER	AMOUNT ADDED	DATE/BY
13-15494 WY50A	SEEP-4											0.057									
13-15495 WY50B	SEEP-5											0.057									

07/24/13 10:00:00 AM

M/ .f.d.c

Sample ID Cross Reference Report



ARI Job No: WY50
Client: Friedman and Bruya, Inc
Project Event: 307333
Project Name: N/A

Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1. SEEP-4	WY50A	13-15494	Water	07/23/13 11:45	07/24/13 12:50
2. SEEP-5	WY50B	13-15495	Water	07/23/13 12:25	07/24/13 12:50

SAMPLE RESULTS-CONVENTIONALS
WY50-Friedman and Bruya, Inc



Matrix: Water
Data Release Authorized: *[Signature]*
Reported: 08/05/13

Project: NA
Event: 307333
Date Sampled: 07/23/13
Date Received: 07/24/13

Client ID: SEEP-4
ARI ID: 13-15494 WY50A

Analyte	Date Batch	Method	Units	RL	Sample
Chloride	08/02/13 080213#1	SM4500-CLE	mg/L	2,000	8,320
Total Organic Carbon	07/25/13 072513#1	EPA 9060M	mg/L	1.50	4.28

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
WY50-Friedman and Bruya, Inc



Matrix: Water
Data Release Authorized:
Reported: 08/05/13

A handwritten signature in black ink, appearing to be a stylized name, located to the right of the matrix and authorization information.

Project: NA
Event: 307333
Date Sampled: 07/23/13
Date Received: 07/24/13


Client ID: SEEP-5
ARI ID: 13-15495 WY50B

Analyte	Date Batch	Method	Units	RL	Sample
Chloride	08/02/13 080213#1	SM4500-CLE	mg/L	1,000	8,140
Total Organic Carbon	07/25/13 072513#1	EPA 9060M	mg/L	1.50	< 1.50 U

RL Analytical reporting limit
U Undetected at reported detection limit

MS/MSD RESULTS-CONVENTIONALS
WY50-Friedman and Bruya, Inc



Matrix: Water
Data Release Authorized: 
Reported: 08/05/13

Project: NA
Event: 307333
Date Sampled: 07/23/13
Date Received: 07/24/13

Analyte	Method	Date	Units	Sample	Spike	Spike Added	Recovery
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ARI ID: WY50A Client ID: SEEP-4

Total Organic Carbon	EPA 9060M	07/25/13	mg/L	4.28	23.9	20.0	98.1%
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REPLICATE RESULTS-CONVENTIONALS
WY50-Friedman and Bruya, Inc



Matrix: Water
Data Release Authorized
Reported: 08/05/13


A handwritten signature in black ink, appearing to be 'WJ' or similar, written over the 'Data Release Authorized' text.

Project: NA
Event: 307333
Date Sampled: 07/23/13
Date Received: 07/24/13

Analyte	Method	Date	Units	Sample	Replicate (s)	RPD/RSD
ARI ID: WY50A Client ID: SEEP-4						
Chloride	SM4500-CLE	08/02/13	mg/L	8,320	8,960	7.4%
Total Organic Carbon	EPA 9060M	07/25/13	mg/L	4.28	4.08	4.8%

METHOD BLANK RESULTS-CONVENTIONALS
WY50-Friedman and Bruya, Inc



Matrix: Water
Data Release Authorized: 
Reported: 08/05/13


Project: NA
Event: 307333
Date Sampled: NA
Date Received: NA

Analyte	Method	Date	Units	Blank	ID
Chloride	SM4500-CLE	08/02/13	mg/L	< 1.0 U	FB
Total Organic Carbon	EPA 9060M	07/25/13	mg/L	< 1.50 U	

FB Filtration Blank

STANDARD REFERENCE RESULTS-CONVENTIONALS
WY50-Friedman and Bruya, Inc

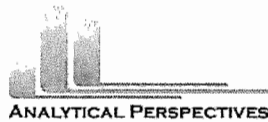


Matrix: Water
Data Release Authorized: 
Reported: 08/05/13

Project: NA
Event: 307333
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Method	Date	Units	SRM	True Value	Recovery
Chloride ERA #411010	SM4500-CLE	08/02/13	mg/L	4.9	5.0	98.0%
Total Organic Carbon ERA #0408-13-02	EPA 9060M	07/25/13	mg/L	21.6	20.0	108.0%

FINAL DATA GAPS REPORT CONTINUED



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.

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, 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.

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

Sample ID: Method Blank A5662

Method 8290A

Client Data		Sample Data		Laboratory Data		Date Received:	
Name: SLR International Corporation Project ID: Crowley/R1FS 101.00205.00030 Date Collected: n/a		Matrix: Solids Weight/Volume: 0.0100 Kg % Solids: 100.0 % Split: -		Lab Project ID: A5662 Lab Sample ID MB1_11082_DF_SDS QC Batch No: 11082 Dilution: -		Date Received: n/a Date Extracted: 26-Jun-2013 Date Analyzed: 11-Jul-2013 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		J	ES 1234789-HpCDF	69	
OCDF	EMPC		323	J	ES OCDF	62.7	
Totals					Standard	CS/AS Recoveries	
Total TCDD	ND		172		CS 37Cl-2378-TCDD	74.4	
Total PeCDD	ND	63.8	ND		CS 12347-PeCDD	74	
Total HxCDD	67.2		67.2		CS 12346-PeCDF	70.9	
Total HpCDD	267		267		CS 123469-HxCDF	75	
Total TCDF	ND		42.5		CS 1234689-HpCDF	67.1	
Total PeCDF	ND	29.8	ND		AS 1368-TCDD	78.3	
Total HxCDF	43.4		43.4		AS 1368-TCDF	75.6	
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				



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-14-1.0

Method 8290A

Client Data		Sample Data		Laboratory Data		Date Received:	
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	Standard	ES Recoveries	Qualifiers
2378-TCDD	220			J B	ES 2378-TCDD	92.1	
12378-PeCDD	1730			J	ES 12378-PeCDD	89.1	
123478-HxCDD	2560				ES 123478-HxCDD	90.6	
123678-HxCDD	8550				ES 123678-HxCDD	92.5	
123789-HxCDD	5530				ES 123789-HxCDD	90.1	
1234678-HpCDD	137000				ES 1234678-HpCDD	91.8	
OCDD	841000				ES OCDD	83.3	
2378-TCDF	2110				ES 2378-TCDF	94.2	
12378-PeCDF	1530			J	ES 12378-PeCDF	87.3	
23478-PeCDF	4100				ES 23478-PeCDF	88.1	
123478-HxCDF	4920			J	ES 123478-HxCDF	93.7	
123678-HxCDF	2180				ES 123678-HxCDF	90.8	
234678-HxCDF	2630				ES 234678-HxCDF	89.4	
123789-HxCDF	584			J	ES 123789-HxCDF	90	
1234678-HpCDF	18900				ES 1234678-HpCDF	88.7	
1234789-HpCDF	1160			J	ES 1234789-HpCDF	90.6	
OCDF	22000				ES OCDF	83.1	
Totals					Standard	CS/AS Recoveries	
Total TCDD	4530		5480		CS 37CI-2378-TCDD	88.1	
Total PeCDD	11700		12100		CS 12347-PeCDD	85.1	
Total HxCDD	57200		57200		CS 12346-PeCDF	85.2	
Total HpCDD	242000		242000		CS 123469-HxCDF	92.5	
					CS 1234689-HpCDF	87.8	
Total TCDF	26400		26500		AS 1368-TCDD	97	
Total PeCDF	48200		48200		AS 1368-TCDF	99.5	
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				



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Sample ID: EB-14-5.0

Method 8290A

Client Data		Sample Data		Laboratory Data		Date Received:	
Name: SLR International Corporation Crowley R1FS 101.00205.00030 17-Jun-2013		Matrix: Solids Weight/Volume: 0.0100 Kg % Solids: 84.9 % Split: -		Lab Project ID: A5662 Lab Sample ID A5662_11082_DF_002 QC Batch No: 11082 Dilution: -		25-Jun-2013 26-Jun-2013 11-Jul-2013 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		J	ES 123789-HxCDF	84	
1234678-HpCDF	509	68.4		J B	ES 1234678-HpCDF	82.1	
1234789-HpCDF	ND		723	J B	ES 1234789-HpCDF	85.8	
OCDF	EMPC				ES OCDF	79.2	
Totals					Standard	CS/AS Recoveries	
Total TCDD	1200		1940		CS 37Cl-2378-TCDD	98.4	
Total PeCDD	1250		1660		CS 12347-PeCDD	89.7	
Total HxCDD	3020		3110		CS 12346-PeCDF	88.9	
Total HpCDD	7040		7040		CS 123469-HxCDF	94.6	
Total TCDF	5280		5460		CS 1234689-HpCDF	93	
Total PeCDF	1620		2060		AS 1368-TCDD	104	
Total HxCDF	743		1160		AS 1368-TCDF	98.5	
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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ASS62

ANALYTICAL PERSPECTIVES

CHAIN-OF-CUSTODY RECORD

PROJECT ID: Crowley RIFS P.O. No.: 101.00205.00030 SAMPLER: Amanda Mengjris (PRINTED NAME) Am & B. M. (SIGNATURE)

RELINQUISHED BY: (SIGNATURE & PRINTED NAME) DATE: TIME: RECEIVED BY: (SIGNATURE & PRINTED NAME) DATE: TIME:
Am & B. M. 6/24/13 1430 Barbara Hager 25-Jun-13 1005

RELINQUISHED BY: (SIGNATURE & PRINTED NAME) DATE: TIME: RECEIVED BY: (SIGNATURE & PRINTED NAME) DATE: TIME:
REQUESTED TAT: 21 DAYS

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

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

ATTN: YVES TONDEUR
METHOD OF SHIPMENT: FEDEx
SHIPMENT ID:

METHOD 8290	METHOD 1613	METHOD 1668A	METHOD 1668 B	METHOD 1668 C	PAHS BY HRMS	QUANTIC	USVOA	WHO2/WHO2S	QAPP REFERENCE:			
									QTY	TYPE	SAMPLE ACCEPTANCE POLICY (ON BACK SIDE)	MATRIX
									1	402	SOLC	
									1	402	SOLC	
												HOLD

SPECIAL INSTRUCTIONS/COMMENTS: (PLEASE CIRCLE OPTION BELOW)

"DF ONLY" "DF & PCB" "DF & PAH" "DF & PCB & PAH" "2,3,7,8-TCDD & F ONLY" "2,3,7,8-TCDD ONLY"

SEND DOCUMENTATION & RESULTS TO: CHECK IF SAME

NAME: Mike Stator NAME: _____
 COMPANY: SLR Consulting Corp. COMPANY: _____
 ADDRESS: 22118 20th AVE SE ADDRESS: _____
6202 CITY: Bothell CITY: _____
WA STATE: 98021 STATE: _____
425-402-8805 PH.: _____
mstator@slrconsulting.com E-MAIL: _____

PLEASE SPECIFY TIFS: (PLEASE CHECK BOXES BELOW)

"ITIFS" "WHO-98" "WHO-05" "MA-TIFS" "CT-TIFS"

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 19, 2013

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

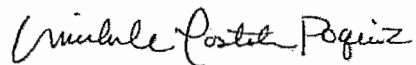
Dear Mr. Staton:

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
Chemist

Enclosures
SLR0719R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
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 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 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.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range(% Recovery)</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> (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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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:	06/13/13	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

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:	06/28/13	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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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		

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 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		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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 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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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	Upper
TCMX	103	Limit:	Limit:
		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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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	Upper
TCMX	185 ds	Limit:	Limit:
		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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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	Upper
TCMX	120 ds	Limit:	Limit:
		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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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	Upper
TCMX	100 ds	Limit:	Limit:
		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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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