



December 5, 2015

Stefan Goreau  
Public Health Sanitarian  
Westchester County Department of Health  
Petroleum Bulk Storage Unit  
145 Huguenot Street  
New Rochelle, NY 10801

Re: Tank Closure Report  
150 East 1<sup>st</sup> Street  
Mount Vernon, NY

Dear Mr. Goreau,

A Phase I Environmental Site Assessment update dated September 2015 identified two remote fill pipes on the west side of the above referenced building (Figure 1). The current tenant (and perspective buyer) was told by the City of Mount Vernon Fire Marshal that two 280 gallon fuel oil tanks were once present in the basement of the building. The tenant asked Coppola Paving & Landscaping (Coppola) to trace the fill pipes located adjacent to the Franklin Avenue side walk and confirm they were once connected to the former tanks. Coppola obtained a side walk opening permit from the City of Mount Vernon and conducted this work on November 19, 2015.

The northern most remote fill pipe (closest to 1<sup>st</sup> Street) had an associated vent pipe mounted against the building and was observed to enter the basement at a location where two holes in the wall had been patched with concrete (Photos 1 and 2 in Attachment A). The fill and vent pipes were not connected to a tank and were removed by Coppola. Exposed soil and the interior of the fill and vent pipes were screened for the presence of volatile organic compounds (VOCs) using

a MiniRae Model 2000 photoionization detector (PID). PID readings were negligible and there was no visual/olfactory evidence of contamination.

The remote fill to the south on Franklin Avenue was unearthed and was attached to a pipe that trended into the parking lot and not toward the building as expected. PID readings measured when the remote fill cap was removed were elevated and there was a noticeable gasoline odor.

The entire length of pipe was exposed by Coppola using an excavator and it was determined to be attached to an UST. There was no visual/olfactory evidence of contamination at the remote fill and along the entire length of pipe. At that time two soil samples were collected for analysis—one at the remote fill and one midway from the pipe to the tank (below the base of the pipe).

There was no record of a gasoline UST with the City of Mount Vernon or Westchester County. The tank was not shown on building drawings. There was also no evidence on the surface of the parking lot that an UST would be present (no obvious patch and/or markings).

The City of Mount Vernon was consulted and the decision was made to remove the tank immediately as the excavation work had potentially compromised the side walk and parking lot.

Coppola retained Brookside Environmental of Copiague, New York to assist with the tank removal. The tank removal work included excavating overlying soil to expose the UST; removing and disposing of the tank contents; removing the tank; and disposing of the tank. The remote fill and all piping was removed. The tank removal was performed in accordance with the procedures set forth in the American Petroleum Institute (API) Recommended Practice 1604 entitled “Removal and Disposal of Used Underground Storage Tanks”. Photos were taken to document key activities and are included in Attachment A.

1,120 gallons of gasoline were removed from the UST by Enviro Waste Oil Recovery, LLC and disposed of at a licensed facility (Albany Tank Services, Selkirk New York). The non-hazardous

waste manifest is included in Attachment B.

The UST was five feet in diameter and 12 feet long (estimated capacity 1500 gallons). Following the excavation of the UST it was removed from the ground and staged on polyethylene sheeting. The UST was inspected, photographed, and noted to be intact with no noticeable holes or significant scaling.

PID readings in the UST bed and side walls were 0.0 ppm and there was no visual/olfactory evidence of contamination. The tank bed was extremely narrow and two bottom soil samples (sandy fill) were collected for laboratory analysis and were labeled *bottom east* and *bottom west*.

The four soil samples were delivered to American Analytical Laboratories, Farmingdale, New York (NYSDOH ELAP #11418). EPA Method 8260 was used to analyze the samples for the list of CP-51 compounds (VOCs). In addition, the two bottom samples were analyzed via EPA Method 8270 for the CP-51 listed SVOCs.

The tank was transported to the Coppola facility and Brookside cut it open to remove residual sludge and perform a final cleaning. After the tank was cleaned out, the scrap metal was transported to Pascap Co. Inc. in the Bronx for proper disposal/recycling. Disposal receipts and manifests are included in Attachment B.

The laboratory report is included as Attachment C. Endpoint soil analytical results were compared to Tables 2 and 3 in NYSDEC CP-51/Soil Cleanup Guidance (October 21, 2010). There were no detections of CP-51 VOCs (gasoline constituents) in the four endpoint samples. There were exceedances of SVOCs in the two tank bottom samples consistent with the historical fill in the Mount Vernon area.

*Page 4  
December 5, 2015  
150 East 1<sup>st</sup> Street  
Mount Vernon*

In summary, the UST, its contents, and associated piping were removed and disposed of properly. There was no evidence of a spill.

If you have any questions or need further information, please do not hesitate to call.

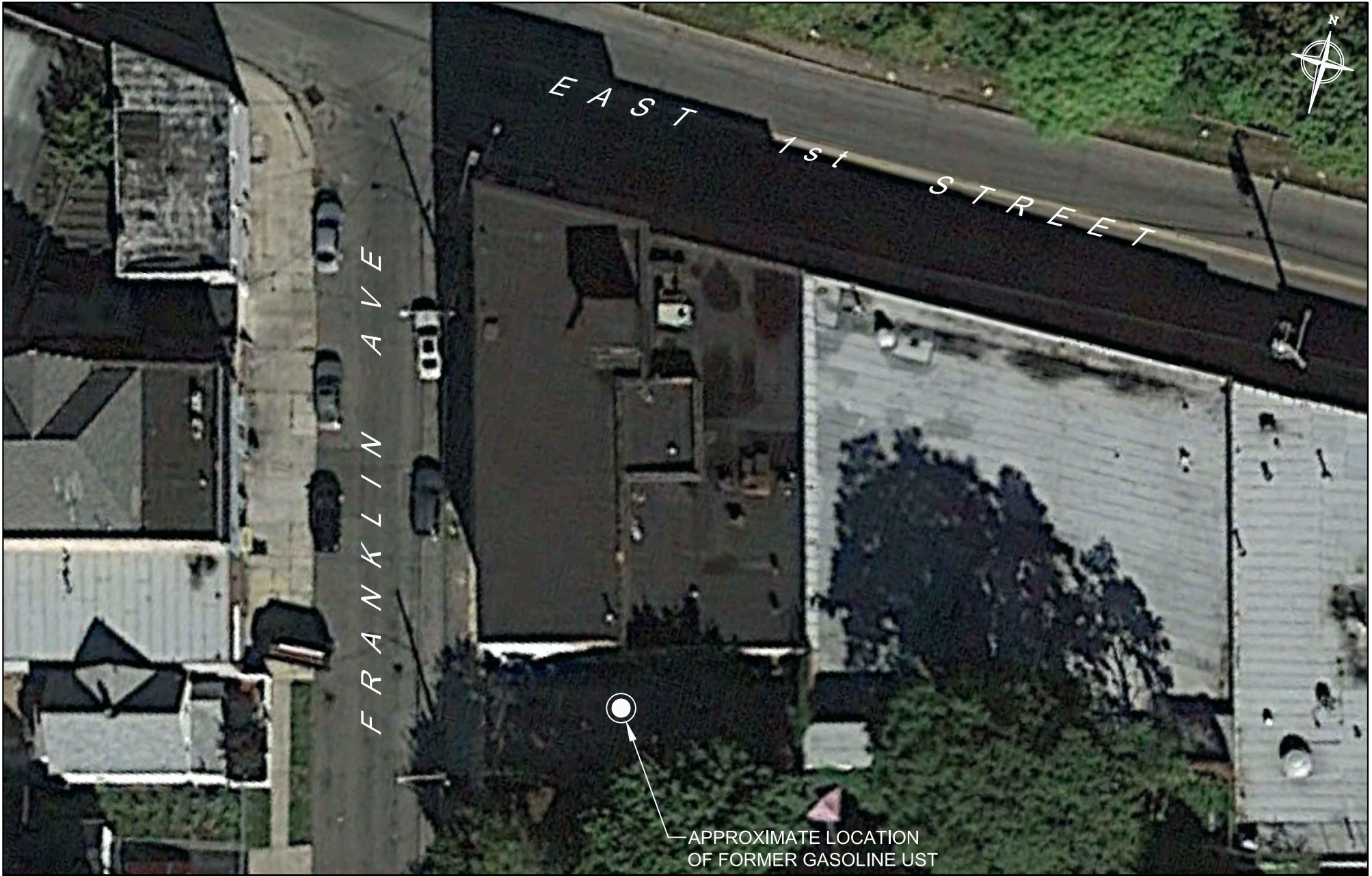
Very Truly Yours,  
**Seacliff Environmental, Inc.**

A handwritten signature in cursive script that reads "James M. DeMartinis".

James M. DeMartinis P.G.  
Senior Hydrogeologist

CC Eric Coppola

Figure



APPROXIMATE LOCATION  
OF FORMER GASOLINE UST

PREPARED BY:  
  
 Seacliff Environmental, Inc.  
 P.O. Box 2085  
 Miller Place, NY 11764  
 Office # (631) 828-5994  
 Cell # (631) 742-6948

TITLE:  
**Site Plan**  
 150 East 1st Street  
 Mount Vernon, New York

DWN: LR	SCALE: 1" = 30'	DATE: 11-24-15	PROJECT NO.: Vernon
CHKD: JMD	APPD: JMD	REV.: -	NOTES: -
FIGURE NO.:			1

# Tables



150 East 1st Street, Mount Vernon, NY

**Table 1**  
**Endpoint Soil Sample Results**  
**Volatile Organic Compounds**  
**by Method SW 846 8260C**

		Client SampleID: Sampling Date:	Remote Fill 11/19/2015	Pipe-20 feet 11/19/2015	Bottom-West 11/20/2015	Bottom-East 11/20/2015
Analyte	Units	Limits	Q	Q	Q	Q
1,2,4-Trimethylbenzene	ug/Kg	3600	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ug/Kg	8400	ND	ND	ND	ND
4-Isopropyltoluene	ug/Kg	10000	ND	ND	ND	ND
Benzene	ug/Kg	60	ND	ND	ND	ND
Ethylbenzene	ug/Kg	1000	ND	ND	ND	ND
Isopropylbenzene	ug/Kg	2300	ND	ND	ND	ND
m,p-Xylene	ug/Kg	260	ND	ND	ND	ND
Methyl tert-butyl ether	ug/Kg	NA	ND	ND	ND	ND
Naphthalene	ug/Kg	12000	ND	ND	ND	ND
n-Butylbenzene	ug/Kg	12000	ND	ND	ND	ND
n-Propylbenzene	ug/Kg	3900	ND	ND	ND	ND
o-Xylene	ug/Kg	260	ND	ND	ND	ND
sec-Butylbenzene	ug/Kg	11000	ND	ND	ND	ND
tert-Butylbenzene	ug/Kg	5900	ND	ND	ND	ND
Toluene	ug/Kg	700	ND	ND	ND	ND

*Notes:*

*D - Analyte reported from Dilution*

*J - Laboratory Estimated Concentration*

*NA - Not Analyzed; the compound is not listed in the CP51 table*

*ND - Not Detected; the compound was not detected at the reporting limit*



150 East 1st Street, Mount Vernon, NY

**Table 1**  
**Endpoint Soil Sample Results**  
**Semi Volatile Organic Compounds**  
**by Method SW 846 8270D**

		Client SampleID: Sampling Date:	Remote Fill 11/19/2015	Pipe-20 feet 11/19/2015	Bottom-West 11/20/2015	Bottom-East 11/20/2015
Analyte	Units	Limits	Q	Q	Q	Q
Acenaphthene	ug/Kg	20000	NA	NA	260 J	600
Acenaphthylene	ug/Kg	100000	NA	NA	75 J	160 J
Anthracene	ug/Kg	100000	NA	NA	670	1500
Benzo(a)anthracene	ug/Kg	1000	NA	NA	<b>2500</b>	<b>5300</b>
Benzo(a)pyrene	ug/Kg	1000	NA	NA	<b>2000</b>	<b>4400</b>
Benzo(b)fluoranthene	ug/Kg	1000	NA	NA	<b>1800</b>	<b>3900</b>
Benzo(g,h,i)perylene	ug/Kg	100000	NA	NA	1100	2500
Benzo(k)fluoranthene	ug/Kg	800	NA	NA	<b>1600</b>	<b>3000</b>
Chrysene	ug/Kg	1000	NA	NA	<b>2400</b>	<b>5200</b>
Dibenzo(a,h)anthracene	ug/Kg	330	NA	NA	330	<b>740</b>
Fluoranthene	ug/Kg	100000	NA	NA	4600	10000 D
Fluorene	ug/Kg	30000	NA	NA	210 J	560
Indeno(1,2,3-c,d)pyrene	ug/Kg	500	NA	NA	<b>1300</b>	<b>2900</b>
Phenanthrene	ug/Kg	100000	NA	NA	3000	7500 D
Pyrene	ug/Kg	100000	NA	NA	4100	9100 D

*Notes:*

*D - Analyte reported from Dilution*

*J - Laboratory Estimated Concentration*

*NA - Not Analyzed; the compound is not listed in the CP51 table*

*ND - Not Detected; the compound was not detected at the reporting limit*

Attachment A  
Representative Photographs



*Photo 1 Patched holes in basement opposite exterior northern fill and vent pipes.*



*Photo 2 Removing the hanging fill and vent piping.*



*Photo 3 Southern remote fill on Franklin Avenue.*



*Photo 4 Tracing southern remote fill pipe easterly into building parking lot.*



*Photo 5-Exposing the top of the UST.*



*Photo 6 Pumping out the residual liquid for proper disposal.*



*Photo 7 UST removed.*



*Photo 8- Excavation after UST removal (historical fill).*

Attachment B  
Disposal Manifest

**NON-HAZARDOUS WASTE MANIFEST**

1. Generator ID Number  
NYR000061661

2. Page 1 of

3. Emergency Response Phone  
856-927-8354

4. Waste Tracking Number  
310805

5. Generator's Name and Mailing Address

Generator's Site Address (if different than mailing address)

150 EAST 1ST STREET  
MT VERNON NY 10550  
Generator's Phone: (845) 808-2810

6. Transporter 1 Company Name  
ENVIRO WASTE OIL RECOVERY, LLC

U.S. EPA ID Number  
NYDO44525636

7. Transporter 2 Company Name  
ALBANY TANK SERVICES

U.S. EPA ID Number  
NYR000060067

8. Designated Facility Name and Site Address  
ALBANY TANK SERVICES  
1650 RT. 9W SELKIRK NY 12155  
Facility's Phone: 5186946319

U.S. EPA ID Number  
NYR000060067

9. Waste Shipping Name and Description

10. Containers  
No. Type

11. Total Quantity

12. Unit Wt./Vol.

1. PETROLEUM CONTAMINATED TANK BOTTOMS & WATER, NON REGULATED, NON R.C.R.A., N/A, NONE, NONE

001 TT

1120

G

13. Special Handling Instructions and Additional Information



14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offor's Printed/Typed Name

Signature

Month Day Year

*[Signature]*

*[Signature] ERIC COPPOCK*

11 | 2015

15. International Shipments  Import to U.S.  Export from U.S.

Port of entry/exit:

Date leaving U.S.:

Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

*[Signature] Russell M...ino*

*[Signature] Russell M...*

11 | 2015

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Signature

Month Day Year

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY

PHONE: 631.608.8810  
 FAX: 631.608.8811

**BROOKSIDE ENVIRONMENTAL**  
 www.brooksideweb.com

Transporter Permit #1A-644  
 EPA ID #NYR000081661  
 BIC # 2935

GENERATOR	<b>NON-HAZARDOUS MANIFEST</b>		1. Customer's US EPA ID NO. <i>Not Required</i>	Document No.	2. Page 1 of <i>1</i>	
	3. Generator Site Address and Mailing Address <i>Coppola 3830 Boston Road Bronx NY</i>			Site: <i>150 East 1st Street Mount Vernon NY</i>		A. Document Number
	4. Phone					B. State ID
	5. Transporter 1 Company Name <i>Brookside Environmental</i>		6. US EPA ID Number <i>NYR000081661</i>		C. State Transporter's ID <i>NY 1A-644</i>	
	7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone <i>516-377-6300</i>	
	9. Designated Facility Name and Site Address <i>Clean Water of New York 3249 Richmond Terrace Staten Island NY 10303</i>		10. US EPA ID Number <i>NYD000968545</i>		E. State Transporter's ID	
					F. Transporter's Phone	
					G. State Facility's ID	
					H. Facility's Phone <i>718-981-4600</i>	
	11. US DOT Description (Including Proper Shipping Name)		12. Containers		13. Total Quantity	14. Unit Wt/Vol
		No.	Type		L. Waste No.	
a. <i>Waste Petroleum Mixture, solid Non DOT / Non RCRA Hazardous</i>		<i>001</i>	<i>DM</i>	<i>40</i>	<i>P</i>	
b.						
c.						
d.						
J. Additional Descriptions for Materials Listed Above				K. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information <i>a.) Tank Bottoms 237-029</i>						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.						
Printed / Type Name <i>X Eric Coppola</i>		Signature <i>[Signature]</i>		DATE Month Day Year <i>12 2 15</i>		
17. Transporter 1 Acknowledgement of Receipt of Materials						
Printed / Type Name <i>Nicholas Holdener</i>		Signature <i>[Signature]</i>		DATE Month Day Year <i>12 2 15</i>		
18. Transporter 2 Acknowledgement of Receipt of Materials						
Printed / Type Name		Signature		DATE Month Day Year		
19. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted.						
Printed / Typed Name				DATE Month Day Year		
FACILITY						



# PAYMENT RECEIPT

**Pascap Co, Inc.**

4250 Boston Road

Bronx, NY 10475

(718)325-7200 (914)725-3300

FACILITY ID NO. 7003010 SCP

NYC DCA License # 0437184-0764024

Receipt: 0931440

Date: 12/02/2015

Customer: 1914

Time: 14:56

COPPOLA PAVING

3830 BOSTON RD.

Bronx, NY 10475

Ticket: 1555952

Weigh In: 12/02/2015 14:47

Operator: 9

Weigh Out: 12/02/2015 14:53

Commodity	Gross	Tare	Net	Price	TOTAL \$
ST TANK TO	11860	9940	1920	2.150/CW	\$41.28

Ticket Total \$41.28

# of Tickets: 1

Paid by EZCash

Total Paid	\$41.00
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Rounded to nearest \$1.00

Attachment C  
Laboratory Report-Endpoint Samples



American Analytical Laboratories, LLC.  
56 Toledo Street  
Farmingdale, New York 11735  
TEL: (631) 454-6100 FAX: (631) 454-8027  
Website: [www.American-Analytical.com](http://www.American-Analytical.com)

December 02, 2015

Jim DeMartinis  
Seacliff Environmental  
PO Box 2085  
Miller Place, NY 11764  
TEL:  
FAX

RE: 150 East 1st Street, Mount Vernon, NY

Order No.: 1511159

Dear Jim DeMartinis:

American Analytical Laboratories, LLC. received 4 sample(s) on 11/24/2015 for the analyses presented in the following report.

Samples were analyzed in accordance with the test procedures documented on the chain of custody and detailed throughout the text of this report. The results reported herein relate only to the items tested or to the samples as received by the laboratory. This report may not be reproduced, except in full, without the approval of American Analytical Laboratories, LLC and is not considered complete without a cover page and chain of custody documentation. The limits (LOQ) provided in the data package are analytical reporting limits and not Federal or Local mandated values to which the sample results should be compared.

There were no problems with the analyses and all data for associated QC met laboratory specifications. If there are any exceptions a Case Narrative is provided in the report or the data is qualified either on the sample results or in the QC section of the report. This package has been reviewed by American Analytical Laboratories' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal.

If you have any questions regarding these tests results, please do not hesitate to call (631) 454-6100 or email me directly at [lbeyer@american-analytical.com](mailto:lbeyer@american-analytical.com).

Sincerely,

Lori Beyer  
Lab Director  
American Analytical Laboratories, LLC.



American Analytical Laboratories, LLC.  
56 Toledo Street  
Farmingdale, New York 11735  
TEL: (631) 454-6100 FAX: (631) 454-8027  
Website: www.American-Analytical.com

## Workorder Sample Summary

WO#: 1511159

02-Dec-15

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**CLIENT:** Seacliff Environmental  
**Project:** 150 East 1st Street, Mount Vernon, NY

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Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1511159-001A	Remote Fill		11/19/2015 11:10:00 AM	11/24/2015 10:30:00 AM	Soil
1511159-002A	Pipe-20 feet		11/19/2015 11:20:00 AM	11/24/2015 10:30:00 AM	Soil
1511159-003A	Bottom-West		11/20/2015 10:30:00 AM	11/24/2015 10:30:00 AM	Soil
1511159-003B	Bottom-West		11/20/2015 10:30:00 AM	11/24/2015 10:30:00 AM	Soil
1511159-004A	Bottom-East		11/20/2015 10:40:00 AM	11/24/2015 10:30:00 AM	Soil
1511159-004B	Bottom-East		11/20/2015 10:40:00 AM	11/24/2015 10:30:00 AM	Soil





American Analytical Laboratories, LLC.  
 56 Toledo Street  
 Farmingdale, New York 11735  
 TEL: (631) 454-6100 FAX: (631) 454-8027  
 Website: www.American-Analytical.com

# Sample Log-In Check List

Client Name: **SEACLIFF ENV** Work Order Number: **1511159** RcptNo: **1**

Logged by:	<b>Lori Beyer</b>	<b>11/24/2015 10:30:00 AM</b>	<i>Lori Beyer</i>
Completed By:	<b>Lori Beyer</b>	<b>11/24/2015 11:08:17 AM</b>	<i>Lori Beyer</i>
Reviewed By:	<b>Karen Kelly</b>	<b>11/24/2015</b>	<i>Karen Kelly</i>

**Chain of Custody**

1. Is Chain of Custody complete? Yes  No  Not Present   
 2. How was the sample delivered? AAL Lab Courier

**Log In**

3. Coolers are present? Yes  No  NA   
 4. Shipping container/cooler in good condition? Yes  No   
 Custody seals intact on shipping container/cooler? Yes  No  Not Present   
 No. Seal Date: Signed By:  
 5. Was an attempt made to cool the samples? Yes  No  NA   
 6. Were all samples received at a temperature of >0° C to 6.0°C Yes  No  NA   
 7. Sample(s) in proper container(s)? Yes  No   
 8. Sufficient sample volume for indicated test(s)? Yes  No   
 9. Are samples (except VOA and ONG) properly preserved? Yes  No   
 10. Was preservative added to bottles? Yes  No  NA   
 11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes  No  No VOA Vials   
 12. Were any sample containers received broken? Yes  No   
 13. Does paperwork match bottle labels? Yes  No   
 (Note discrepancies on chain of custody)  
 14. Are matrices correctly identified on Chain of Custody? Yes  No   
 15. Is it clear what analyses were requested? Yes  No   
 16. Were all holding times able to be met? Yes  No   
 (If no, notify customer for authorization.)

**Special Handling (if applicable)**

17. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

18. Additional remarks:  
 VOC samples not collected per method 5035A

**Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
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Farmingdale, New York 11735  
TEL: (631) 454-6100 FAX: (631) 454-8027  
Website: www.American-Analytical.com

## Case Narrative

WO#: 1511159  
Date: 12/2/2015

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**CLIENT:** Seacliff Environmental  
**Project:** 150 East 1st Street, Mount Vernon, NY

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Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846 and additional methods as detailed throughout the text of the report. All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives with exceptions notated in this Narrative discussion and/or in the QC Summary Section of the lab report with appropriate qualifiers. Additional quality control information such as surrogate recovery values for organic testing is provided as part of the analytical results. Batch MS/MSD results are provided in the QC section of the lab report unless the MS/MSD summary forms indicate one of your sample identifications. MS/MSD results relate only to the parent sample that was spiked.

Soil sample results analyzed for Volatile Organics via preparation method SW846 Method 5035A by the Low Level procedures potentially may be estimated, "J" (biased low) since the samples for this test were not collected according to the 5035A Method. Volatile LCS are analyzed with preservatives - HCL/NaHSO<sub>4</sub>/Methanol depending on level of analysis (high/low) similar to sample analysis. Outliers can be attributed to the presence of chemical preservatives. 2-Chloroethyl vinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

The following parameters (if included in this report) are not offered by NY ELAP: VOA 8260 Soil; 1,2,4,5-Tetramethylbenzene, Chlorodifluoromethane, Diisopropyl ether, Ethanol, Freon-114, p-Diethylbenzene, p-Ethyltoluene, Isopropyl Acetate, n-Amyl Acetate, n-Butyl Acetate, n-Propyl Acetate. VOA 8260 Liquid; 1,2,4,5-Tetramethylbenzene, Chlorodifluoromethane, Freon-114, p-Diethylbenzene, p-Ethyltoluene, Isopropyl Acetate, n-Amyl acetate, n-Butyl Acetate, n-Propyl Acetate. Pesticides 8081 Soil; DBCP. Herbicides 8151 Soil; 3,5-Dichlorobenzoic Acid, 4-Nitrophenol, Acifluorfen, Bentazon, Chloramben, DCPA, Picloram .Lachat 10-107-6-1B Ammonia in Soil, SM 2540G Total Volatile Solids, Soil TKN, Soil Organic Nitrogen, Percent Moisture, pH in non-potable water and temperature at which pH is measured, SM 4500-SO<sub>3</sub> B Sulfite in Liquid, Total Sulfur in Soil, Acid Soluble Chloride by ASTM C1152, Water Soluble Chloride by ASTM C1218, Chlorine Demand by SM 2350 B, Total Residual Chlorine in Liquid and Nitrate-Nitrite, Nitrogen in non-potable water and Reactivity to Sulfide and Reactivity to Cyanide.

The test results meet the requirements of the NYSDOH and NELAC standards, except where noted. The information contained in this analytical report is the sole property of American Analytical



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Farmingdale, New York 11735  
TEL: (631) 454-6100 FAX: (631) 454-8027  
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## Case Narrative

WO#: 1511159  
Date: 12/2/2015

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**CLIENT:** Seacliff Environmental  
**Project:** 150 East 1st Street, Mount Vernon, NY

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Laboratories, LLC. or the client for which this report was issued. The results contained in this report are only representative of the samples received. The sample receipt checklist is included as part of this lab report. Conditions can vary at different times and at different sampling conditions. American Analytical is not responsible for the use or interpretation of the data included herein.



American Analytical Laboratories, LLC.  
56 Toledo Street  
Farmingdale, New York 11735  
TEL: (631) 454-6100 FAX: (631) 454-8027  
Website: www.American-Analytical.com

## Definition Only

WO#: 1511159  
Date: 12/2/2015

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### Definitions:

Sample Result and QC Summary Qualifiers - Level I and Level II Reports

ND - Not detected at the reporting limit/Limit of Quantitation

B - The analyte was detected in the associated method blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <5x the blank value as artifact.

E - The value is above the quantitation range

D - Analyte concentration was obtained from diluted analysis or from analysis using reduced sample volume.

J - The analyte was detected below the limit of quantitation but greater than the established Limit of Detection (LOD). There is greater uncertainty associated with these results and data should be considered as estimated.

U - The compound was analyzed for but not detected.

H - Holding time for preparation or analysis has been exceeded.

S - Spike recovery is outside accepted recovery limits.

R - RPD is outside accepted recovery range.

P - Secondary column exceeds 40% difference for GC test.

\* - Calibration exceeds method requirement. Due to the large number of analytes for organic testing, the method allows 10% of analytes to have %RSD and/or %D to be >20%.

LOD - Limit of Detection; the lowest level the analyte can be determined to be statistically different from a blank.

LOQ - Limit of Quantitation; the lowest amount of analyte in a sample that can be quantitatively determined with suitable precision and accuracy.

m - Analyte was manually integrated for GC/MS.

+ - Concentration exceeds regulatory level for TCLP

**ELAP ID : 11418**

<b>CLIENT:</b> Seaclyff Environmental	<b>Client Sample ID:</b> Remote Fill
<b>Lab Order:</b> 1511159	<b>Collection Date:</b> 11/19/2015 11:10:00 AM
<b>Project:</b> 150 East 1st Street, Mount Vernon, NY	<b>Matrix:</b> SOIL
<b>Lab ID:</b> 1511159-001A	

**Certificate of Results**

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
<b>PERCENT MOISTURE</b>			<b>D2216</b>				Analyst: <b>KK</b>
Percent Moisture	11.0	0	1.00		wt%	1	11/25/2015 3:16:17 PM
<b>VOLATILE SW-846 METHOD 8260</b>			<b>SW8260C</b>		<b>SW5035A</b>		Analyst: <b>LA</b>
1,2,4-Trimethylbenzene	ND	1.1	5.7	U	µg/Kg-dry	1	11/25/2015 4:11:00 PM
1,3,5-Trimethylbenzene	ND	1.1	5.7	U	µg/Kg-dry	1	11/25/2015 4:11:00 PM
4-Isopropyltoluene	ND	1.1	5.7	U	µg/Kg-dry	1	11/25/2015 4:11:00 PM
Benzene	ND	1.1	5.7	U	µg/Kg-dry	1	11/25/2015 4:11:00 PM
Ethylbenzene	ND	1.1	5.7	U	µg/Kg-dry	1	11/25/2015 4:11:00 PM
Isopropylbenzene	ND	1.1	5.7	U	µg/Kg-dry	1	11/25/2015 4:11:00 PM
m,p-Xylene	ND	2.3	11	U	µg/Kg-dry	1	11/25/2015 4:11:00 PM
Methyl tert-butyl ether	ND	1.1	5.7	U	µg/Kg-dry	1	11/25/2015 4:11:00 PM
Naphthalene	ND	1.1	5.7	U	µg/Kg-dry	1	11/25/2015 4:11:00 PM
n-Butylbenzene	ND	1.1	5.7	U	µg/Kg-dry	1	11/25/2015 4:11:00 PM
n-Propylbenzene	ND	1.1	5.7	U	µg/Kg-dry	1	11/25/2015 4:11:00 PM
o-Xylene	ND	1.1	5.7	U	µg/Kg-dry	1	11/25/2015 4:11:00 PM
sec-Butylbenzene	ND	1.1	5.7	U	µg/Kg-dry	1	11/25/2015 4:11:00 PM
tert-Butylbenzene	ND	1.1	5.7	U	µg/Kg-dry	1	11/25/2015 4:11:00 PM
Toluene	ND	1.1	5.7	U	µg/Kg-dry	1	11/25/2015 4:11:00 PM
Surr: 4-Bromofluorobenzene	86.5	0	48-136		%Rec	1	11/25/2015 4:11:00 PM
Surr: Dibromofluoromethane	110	0	44-154		%Rec	1	11/25/2015 4:11:00 PM
Surr: Toluene-d8	103	0	58-141		%Rec	1	11/25/2015 4:11:00 PM



# American Analytical Laboratories, LLC.

Date: 02-Dec-15

ELAP ID : 11418

<b>CLIENT:</b> Seaclyff Environmental	<b>Client Sample ID:</b> Pipe-20 feet
<b>Lab Order:</b> 1511159	<b>Collection Date:</b> 11/19/2015 11:20:00 AM
<b>Project:</b> 150 East 1st Street, Mount Vernon, NY	<b>Matrix:</b> SOIL
<b>Lab ID:</b> 1511159-002A	

## Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
<b>PERCENT MOISTURE</b>							Analyst: <b>KK</b>
Percent Moisture	12.7	0	1.00		wt%	1	11/25/2015 3:16:17 PM
<b>VOLATILE SW-846 METHOD 8260</b>							Analyst: <b>LA</b>
			<b>D2216</b>				
			<b>SW8260C</b>		<b>SW5035A</b>		
1,2,4-Trimethylbenzene	ND	1.1	5.7	U	µg/Kg-dry	1	11/25/2015 4:39:00 PM
1,3,5-Trimethylbenzene	ND	1.1	5.7	U	µg/Kg-dry	1	11/25/2015 4:39:00 PM
4-Isopropyltoluene	ND	1.1	5.7	U	µg/Kg-dry	1	11/25/2015 4:39:00 PM
Benzene	ND	1.1	5.7	U	µg/Kg-dry	1	11/25/2015 4:39:00 PM
Ethylbenzene	ND	1.1	5.7	U	µg/Kg-dry	1	11/25/2015 4:39:00 PM
Isopropylbenzene	ND	1.1	5.7	U	µg/Kg-dry	1	11/25/2015 4:39:00 PM
m,p-Xylene	ND	2.3	11	U	µg/Kg-dry	1	11/25/2015 4:39:00 PM
Methyl tert-butyl ether	ND	1.1	5.7	U	µg/Kg-dry	1	11/25/2015 4:39:00 PM
Naphthalene	ND	1.1	5.7	U	µg/Kg-dry	1	11/25/2015 4:39:00 PM
n-Butylbenzene	ND	1.1	5.7	U	µg/Kg-dry	1	11/25/2015 4:39:00 PM
n-Propylbenzene	ND	1.1	5.7	U	µg/Kg-dry	1	11/25/2015 4:39:00 PM
o-Xylene	ND	1.1	5.7	U	µg/Kg-dry	1	11/25/2015 4:39:00 PM
sec-Butylbenzene	ND	1.1	5.7	U	µg/Kg-dry	1	11/25/2015 4:39:00 PM
tert-Butylbenzene	ND	1.1	5.7	U	µg/Kg-dry	1	11/25/2015 4:39:00 PM
Toluene	ND	1.1	5.7	U	µg/Kg-dry	1	11/25/2015 4:39:00 PM
Surr: 4-Bromofluorobenzene	89.0	0	48-136		%Rec	1	11/25/2015 4:39:00 PM
Surr: Dibromofluoromethane	109	0	44-154		%Rec	1	11/25/2015 4:39:00 PM
Surr: Toluene-d8	99.2	0	58-141		%Rec	1	11/25/2015 4:39:00 PM

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# American Analytical Laboratories, LLC.

Date: 02-Dec-15

ELAP ID : 11418

<b>CLIENT:</b>	Seacliff Environmental	<b>Client Sample ID:</b>	Bottom-West
<b>Lab Order:</b>	1511159	<b>Collection Date:</b>	11/20/2015 10:30:00 AM
<b>Project:</b>	150 East 1st Street, Mount Vernon, NY	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	1511159-003A		

## Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
<b>VOLATILE SW-846 METHOD 8260</b>			<b>SW8260C</b>	<b>SW5035A</b>			Analyst: LA
1,2,4-Trimethylbenzene	ND	1.1	5.4	U	µg/Kg-dry	1	11/25/2015 5:06:00 PM
1,3,5-Trimethylbenzene	ND	1.1	5.4	U	µg/Kg-dry	1	11/25/2015 5:06:00 PM
4-Isopropyltoluene	ND	1.1	5.4	U	µg/Kg-dry	1	11/25/2015 5:06:00 PM
Benzene	ND	1.1	5.4	U	µg/Kg-dry	1	11/25/2015 5:06:00 PM
Ethylbenzene	ND	1.1	5.4	U	µg/Kg-dry	1	11/25/2015 5:06:00 PM
Isopropylbenzene	ND	1.1	5.4	U	µg/Kg-dry	1	11/25/2015 5:06:00 PM
m,p-Xylene	ND	2.2	11	U	µg/Kg-dry	1	11/25/2015 5:06:00 PM
Methyl tert-butyl ether	ND	1.1	5.4	U	µg/Kg-dry	1	11/25/2015 5:06:00 PM
Naphthalene	ND	1.1	5.4	U	µg/Kg-dry	1	11/25/2015 5:06:00 PM
n-Butylbenzene	ND	1.1	5.4	U	µg/Kg-dry	1	11/25/2015 5:06:00 PM
n-Propylbenzene	ND	1.1	5.4	U	µg/Kg-dry	1	11/25/2015 5:06:00 PM
o-Xylene	ND	1.1	5.4	U	µg/Kg-dry	1	11/25/2015 5:06:00 PM
sec-Butylbenzene	ND	1.1	5.4	U	µg/Kg-dry	1	11/25/2015 5:06:00 PM
tert-Butylbenzene	ND	1.1	5.4	U	µg/Kg-dry	1	11/25/2015 5:06:00 PM
Toluene	ND	1.1	5.4	U	µg/Kg-dry	1	11/25/2015 5:06:00 PM
Surr: 4-Bromofluorobenzene	88.3	0	48-136		%Rec	1	11/25/2015 5:06:00 PM
Surr: Dibromofluoromethane	113	0	44-154		%Rec	1	11/25/2015 5:06:00 PM
Surr: Toluene-d8	103	0	58-141		%Rec	1	11/25/2015 5:06:00 PM

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**American Analytical Laboratories, LLC.**

Date: 02-Dec-15

**ELAP ID : 11418**

<b>CLIENT:</b>	Seacliff Environmental	<b>Client Sample ID:</b>	Bottom-West
<b>Lab Order:</b>	1511159	<b>Collection Date:</b>	11/20/2015 10:30:00 AM
<b>Project:</b>	150 East 1st Street, Mount Vernon, NY	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	1511159-003B		

**Certificate of Results**

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
<b>PERCENT MOISTURE</b>							
			<b>D2216</b>				Analyst: <b>KK</b>
Percent Moisture	10.5	0	1.00		wt%	1	11/25/2015 3:16:17 PM
<b>SEMIVOLATILE SW-846 METHOD 8270</b>							
			<b>SW8270D</b>		<b>SW3546</b>		Analyst: <b>MH</b>
Acenaphthene	260	28	280	J	µg/Kg-dry	1	12/1/2015 6:16:00 PM
Acenaphthylene	75	28	280	J	µg/Kg-dry	1	12/1/2015 6:16:00 PM
Anthracene	670	28	280		µg/Kg-dry	1	12/1/2015 6:16:00 PM
Benzo(a)anthracene	2500	28	280		µg/Kg-dry	1	12/1/2015 6:16:00 PM
Benzo(a)pyrene	2000	28	170		µg/Kg-dry	1	12/1/2015 6:16:00 PM
Benzo(b)fluoranthene	1800	28	280		µg/Kg-dry	1	12/1/2015 6:16:00 PM
Benzo(g,h,i)perylene	1100	28	280		µg/Kg-dry	1	12/1/2015 6:16:00 PM
Benzo(k)fluoranthene	1600	28	280		µg/Kg-dry	1	12/1/2015 6:16:00 PM
Chrysene	2400	28	280		µg/Kg-dry	1	12/1/2015 6:16:00 PM
Dibenzo(a,h)anthracene	330	28	170		µg/Kg-dry	1	12/1/2015 6:16:00 PM
Fluoranthene	4600	28	280		µg/Kg-dry	1	12/1/2015 6:16:00 PM
Fluorene	210	28	280	J	µg/Kg-dry	1	12/1/2015 6:16:00 PM
Indeno(1,2,3-c,d)pyrene	1300	28	280		µg/Kg-dry	1	12/1/2015 6:16:00 PM
Phenanthrene	3000	28	280		µg/Kg-dry	1	12/1/2015 6:16:00 PM
Pyrene	4100	28	280		µg/Kg-dry	1	12/1/2015 6:16:00 PM
Surr: 2-Fluorobiphenyl	74.8	0	15-128		%Rec	1	12/1/2015 6:16:00 PM
Surr: 4-Terphenyl-d14	80.3	0	10-138		%Rec	1	12/1/2015 6:16:00 PM
Surr: Nitrobenzene-d5	72.9	0	10-128		%Rec	1	12/1/2015 6:16:00 PM

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# American Analytical Laboratories, LLC.

Date: 02-Dec-15

ELAP ID : 11418

<b>CLIENT:</b> Seaclyff Environmental	<b>Client Sample ID:</b> Bottom-East
<b>Lab Order:</b> 1511159	<b>Collection Date:</b> 11/20/2015 10:40:00 AM
<b>Project:</b> 150 East 1st Street, Mount Vernon, NY	<b>Matrix:</b> SOIL
<b>Lab ID:</b> 1511159-004A	

## Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
<b>VOLATILE SW-846 METHOD 8260</b>			<b>SW8260C</b>		<b>SW5035A</b>		Analyst: LA
1,2,4-Trimethylbenzene	ND	1.1	5.6	U	µg/Kg-dry	1	11/25/2015 5:34:00 PM
1,3,5-Trimethylbenzene	ND	1.1	5.6	U	µg/Kg-dry	1	11/25/2015 5:34:00 PM
4-Isopropyltoluene	ND	1.1	5.6	U	µg/Kg-dry	1	11/25/2015 5:34:00 PM
Benzene	ND	1.1	5.6	U	µg/Kg-dry	1	11/25/2015 5:34:00 PM
Ethylbenzene	ND	1.1	5.6	U	µg/Kg-dry	1	11/25/2015 5:34:00 PM
Isopropylbenzene	ND	1.1	5.6	U	µg/Kg-dry	1	11/25/2015 5:34:00 PM
m,p-Xylene	ND	2.2	11	U	µg/Kg-dry	1	11/25/2015 5:34:00 PM
Methyl tert-butyl ether	ND	1.1	5.6	U	µg/Kg-dry	1	11/25/2015 5:34:00 PM
Naphthalene	ND	1.1	5.6	U	µg/Kg-dry	1	11/25/2015 5:34:00 PM
n-Butylbenzene	ND	1.1	5.6	U	µg/Kg-dry	1	11/25/2015 5:34:00 PM
n-Propylbenzene	ND	1.1	5.6	U	µg/Kg-dry	1	11/25/2015 5:34:00 PM
o-Xylene	ND	1.1	5.6	U	µg/Kg-dry	1	11/25/2015 5:34:00 PM
sec-Butylbenzene	ND	1.1	5.6	U	µg/Kg-dry	1	11/25/2015 5:34:00 PM
tert-Butylbenzene	ND	1.1	5.6	U	µg/Kg-dry	1	11/25/2015 5:34:00 PM
Toluene	ND	1.1	5.6	U	µg/Kg-dry	1	11/25/2015 5:34:00 PM
Surr: 4-Bromofluorobenzene	87.1	0	48-136		%Rec	1	11/25/2015 5:34:00 PM
Surr: Dibromofluoromethane	111	0	44-154		%Rec	1	11/25/2015 5:34:00 PM
Surr: Toluene-d8	103	0	58-141		%Rec	1	11/25/2015 5:34:00 PM

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ELAP ID : 11418

<b>CLIENT:</b> Seaclyff Environmental	<b>Client Sample ID:</b> Bottom-East
<b>Lab Order:</b> 1511159	<b>Collection Date:</b> 11/20/2015 10:40:00 AM
<b>Project:</b> 150 East 1st Street, Mount Vernon, NY	<b>Matrix:</b> SOIL
<b>Lab ID:</b> 1511159-004B	

**Certificate of Results**

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
<b>PERCENT MOISTURE</b>			<b>D2216</b>				Analyst: <b>KK</b>
Percent Moisture	10.4	0	1.00		wt%	1	11/25/2015 3:16:17 PM
<b>SEMIVOLATILE SW-846 METHOD 8270</b>			<b>SW8270D</b>		<b>SW3546</b>		Analyst: <b>MH</b>
Acenaphthene	600	28	280		µg/Kg-dry	1	12/1/2015 6:40:00 PM
Acenaphthylene	160	28	280	J	µg/Kg-dry	1	12/1/2015 6:40:00 PM
Anthracene	1500	28	280		µg/Kg-dry	1	12/1/2015 6:40:00 PM
Benzo(a)anthracene	5300	28	280		µg/Kg-dry	1	12/1/2015 6:40:00 PM
Benzo(a)pyrene	4400	28	170		µg/Kg-dry	1	12/1/2015 6:40:00 PM
Benzo(b)fluoranthene	3900	28	280		µg/Kg-dry	1	12/1/2015 6:40:00 PM
Benzo(g,h,i)perylene	2500	28	280		µg/Kg-dry	1	12/1/2015 6:40:00 PM
Benzo(k)fluoranthene	3000	28	280		µg/Kg-dry	1	12/1/2015 6:40:00 PM
Chrysene	5200	28	280		µg/Kg-dry	1	12/1/2015 6:40:00 PM
Dibenzo(a,h)anthracene	740	28	170		µg/Kg-dry	1	12/1/2015 6:40:00 PM
Fluoranthene	10000	280	2800	D	µg/Kg-dry	10	12/1/2015 4:40:00 PM
Fluorene	560	28	280		µg/Kg-dry	1	12/1/2015 6:40:00 PM
Indeno(1,2,3-c,d)pyrene	2900	28	280		µg/Kg-dry	1	12/1/2015 6:40:00 PM
Phenanthrene	7500	280	2800	D	µg/Kg-dry	10	12/1/2015 4:40:00 PM
Pyrene	9100	280	2800	D	µg/Kg-dry	10	12/1/2015 4:40:00 PM
Surr: 2-Fluorobiphenyl	73.0	0	15-128		%Rec	1	12/1/2015 6:40:00 PM
Surr: 4-Terphenyl-d14	77.6	0	10-138		%Rec	1	12/1/2015 6:40:00 PM
Surr: Nitrobenzene-d5	68.3	0	10-128		%Rec	1	12/1/2015 6:40:00 PM





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# QC SUMMARY REPORT

WO#: 1511159

02-Dec-15

**Client:** Seacliff Environmental  
**Project:** 150 East 1st Street, Mount Vernon, NY

**BatchID:** 7322

Sample ID	LCS-7322	SampType: LCS	TestCode: 8260_S	Units: µg/Kg	Prep Date: 11/25/2015	RunNo: 12608					
Client ID: LCSS	Batch ID: 7322	TestNo: SW8260C	SW5035A	Analysis Date: 11/25/2015	SeqNo: 235230						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	37	5.0	50.00	0	74.2	42	145				
1,1,2,2-Tetrachloroethane	38	5.0	50.00	0	75.4	44	138				
1,1,2-Trichloroethane	38	5.0	50.00	0	75.0	47	135				
1,1-Dichloroethane	36	5.0	50.00	0	72.3	41	134				
1,1-Dichloroethene	38	5.0	50.00	0	75.6	48	145				
1,2-Dichlorobenzene	39	5.0	50.00	0	77.2	39	124				
1,2-Dichloroethane	37	5.0	50.00	0	73.3	46	140				
1,2-Dichloropropane	36	5.0	50.00	0	71.6	50	124				
1,3-Dichlorobenzene	38	5.0	50.00	0	77.0	24	136				
1,4-Dichlorobenzene	38	5.0	50.00	0	76.4	23	128				
2-Chloroethyl vinyl ether	35	5.0	50.00	0	69.7	21	130				*
Benzene	36	5.0	50.00	0	72.1	47	133				
Bromodichloromethane	38	5.0	50.00	0	76.2	48	125				
Bromoform	45	5.0	50.00	0	89.8	27	140				
Bromomethane	18	5.0	50.00	0	36.7	20	153				
Carbon tetrachloride	38	5.0	50.00	0	75.4	49	141				
Chlorobenzene	37	5.0	50.00	0	75.0	45	120				
Chloroethane	47	5.0	50.00	0	94.5	37	150				
Chloroform	36	5.0	50.00	0	73.0	43	136				
Chloromethane	36	5.0	50.00	0	72.7	27	146				*
cis-1,3-Dichloropropene	38	5.0	50.00	0	76.1	47	128				
Dibromochloromethane	39	5.0	50.00	0	78.6	42	137				
Ethylbenzene	39	5.0	50.00	0	77.0	46	131				
Methylene chloride	19	10	50.00	0	38.1	20	120				*
Tetrachloroethene	31	5.0	50.00	0	62.7	33	120				
Toluene	38	5.0	50.00	0	75.8	50	130				

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

W Sample container temperature is out of limit as sp



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# QC SUMMARY REPORT

WO#: 1511159  
 02-Dec-15

**Client:** Seacliff Environmental  
**Project:** 150 East 1st Street, Mount Vernon, NY

**BatchID:** 7322

Sample ID	<b>LCS-7322</b>	SampType:	<b>LCS</b>	TestCode:	<b>8260_S</b>	Units:	<b>µg/Kg</b>	Prep Date:	<b>11/25/2015</b>	RunNo:	<b>12608</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>7322</b>	TestNo:	<b>SW8260C</b>		<b>SW5035A</b>	Analysis Date:	<b>11/25/2015</b>	SeqNo:	<b>235230</b>					
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,2-Dichloroethene		36		5.0		50.00		0		72.6	45	141				
trans-1,3-Dichloropropene		38		5.0		50.00		0		76.0	46	135				
Trichloroethene		36		5.0		50.00		0		72.6	46	129				
Trichlorofluoromethane		48		5.0		50.00		0		96.1	46	151				
Vinyl chloride		41		5.0		50.00		0		81.3	43	153				
Surr: 4-Bromofluorobenzene		46				50.00				92.6	48	136				
Surr: Dibromofluoromethane		52				50.00				105	44	154				
Surr: Toluene-d8		53				50.00				106	58	141				

Sample ID	<b>MB-7322</b>	SampType:	<b>MBLK</b>	TestCode:	<b>8260_S</b>	Units:	<b>µg/Kg</b>	Prep Date:	<b>11/25/2015</b>	RunNo:	<b>12608</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>7322</b>	TestNo:	<b>SW8260C</b>		<b>SW5035A</b>	Analysis Date:	<b>11/25/2015</b>	SeqNo:	<b>235231</b>					
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane		ND		5.0												U
1,1,1-Trichloroethane		ND		5.0												U
1,1,2,2-Tetrachloroethane		ND		5.0												U
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		5.0												U
1,1,2-Trichloroethane		ND		5.0												U
1,1-Dichloroethane		ND		5.0												U
1,1-Dichloroethene		ND		5.0												U
1,1-Dichloropropene		ND		5.0												U
1,2,3-Trichlorobenzene		ND		5.0												U
1,2,3-Trichloropropane		ND		5.0												U
1,2,4,5-Tetramethylbenzene		ND		5.0												U
1,2,4-Trichlorobenzene		ND		5.0												U

**Qualifiers:** R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as sp



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 TEL: (631) 454-6100 FAX: (631) 454-8027  
 Website: www.American-Analytical.com

# QC SUMMARY REPORT

WO#: 1511159  
 02-Dec-15

**Client:** Seacliff Environmental  
**Project:** 150 East 1st Street, Mount Vernon, NY

**BatchID:** 7322

Sample ID	MB-7322	SampType:	MBLK	TestCode:	8260_S	Units:	µg/Kg	Prep Date:	11/25/2015	RunNo:	12608
Client ID:	PBS	Batch ID:	7322	TestNo:	SW8260C	SW5035A		Analysis Date:	11/25/2015	SeqNo:	235231
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	ND	5.0									U
1,2-Dibromo-3-chloropropane	ND	5.0									U
1,2-Dibromoethane	ND	5.0									U
1,2-Dichlorobenzene	ND	5.0									U
1,2-Dichloroethane	ND	5.0									U
1,2-Dichloropropane	ND	5.0									U
1,3,5-Trimethylbenzene	ND	5.0									U
1,3-Dichlorobenzene	ND	5.0									U
1,3-dichloropropane	ND	5.0									U
1,4-Dichlorobenzene	ND	5.0									U
1,4-Dioxane	ND	5.0									U
2,2-Dichloropropane	ND	5.0									U
2-Butanone	ND	10									U*
2-Chloroethyl vinyl ether	ND	5.0									U*
2-Chlorotoluene	ND	5.0									U
2-Hexanone	ND	10									U*
2-Propanol	ND	5.0									U
4-Chlorotoluene	ND	5.0									U
4-Isopropyltoluene	ND	5.0									U
4-Methyl-2-pentanone	ND	10									U
Acetone	ND	10									U*
Benzene	ND	5.0									U
Bromobenzene	ND	5.0									U
Bromochloromethane	ND	5.0									U
Bromodichloromethane	ND	5.0									U
Bromoform	ND	5.0									U

**Qualifiers:** R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as sp



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# QC SUMMARY REPORT

WO#: 1511159  
 02-Dec-15

**Client:** Seacliff Environmental  
**Project:** 150 East 1st Street, Mount Vernon, NY

**BatchID:** 7322

Sample ID	MB-7322	SampType:	MBLK	TestCode:	8260_S	Units:	µg/Kg	Prep Date:	11/25/2015	RunNo:	12608
Client ID:	PBS	Batch ID:	7322	TestNo:	SW8260C	SW5035A		Analysis Date:	11/25/2015	SeqNo:	235231
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromomethane	ND	5.0									U
Carbon disulfide	ND	5.0									U
Carbon tetrachloride	ND	5.0									U
Chlorobenzene	ND	5.0									U
Chlorodifluoromethane	ND	5.0									U
Chloroethane	ND	5.0									U
Chloroform	ND	5.0									U
Chloromethane	ND	5.0									U*
cis-1,2-Dichloroethene	ND	5.0									U
cis-1,3-Dichloropropene	ND	5.0									U
Cyclohexane	ND	5.0									U
Dibromochloromethane	ND	5.0									U
Dibromomethane	ND	5.0									U
Dichlorodifluoromethane	ND	5.0									U*
Diisopropyl ether	ND	5.0									U
Ethanol	ND	20									U
Ethylbenzene	ND	5.0									U
Freon-114	ND	5.0									U*
Hexachlorobutadiene	ND	5.0									U
Isopropylbenzene	ND	5.0									U
m,p-Xylene	ND	10									U
Methyl Acetate	ND	5.0									U
Methyl tert-butyl ether	ND	5.0									U
Methylene chloride	ND	10									U*
n-Butylbenzene	ND	5.0									U
n-Propylbenzene	ND	5.0									U

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# QC SUMMARY REPORT

WO#: 1511159  
 02-Dec-15

**Client:** Seacliff Environmental  
**Project:** 150 East 1st Street, Mount Vernon, NY

**BatchID:** 7322

Sample ID	MB-7322	SampType:	MBLK	TestCode:	8260_S	Units:	µg/Kg	Prep Date:	11/25/2015	RunNo:	12608
Client ID:	PBS	Batch ID:	7322	TestNo:	SW8260C	SW5035A		Analysis Date:	11/25/2015	SeqNo:	235231
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	5.0									U
o-Xylene	ND	5.0									U
p-Diethylbenzene	ND	5.0									U
p-Ethyltoluene	ND	5.0									U
sec-Butylbenzene	ND	5.0									U
Styrene	ND	5.0									U
t-Butyl alcohol	ND	5.0									U
tert-Butylbenzene	ND	5.0									U
Tetrachloroethene	ND	5.0									U
Toluene	ND	5.0									U
trans-1,2-Dichloroethene	ND	5.0									U
trans-1,3-Dichloropropene	ND	5.0									U
Trichloroethene	ND	5.0									U
Trichlorofluoromethane	ND	5.0									U
Vinyl acetate	ND	5.0									U
Vinyl chloride	ND	5.0									U
Acrolein	ND	25									U
Acrylonitrile	ND	5.0									U
Surr: 4-Bromofluorobenzene	44		50.00		88.9	48	136				
Surr: Dibromofluoromethane	54		50.00		107	44	154				
Surr: Toluene-d8	51		50.00		102	58	141				

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# QC SUMMARY REPORT

WO#: 1511159

02-Dec-15

**Client:** Seacliff Environmental  
**Project:** 150 East 1st Street, Mount Vernon, NY

**BatchID:** 7322

Sample ID	1511160-001AMS	SampType:	MS	TestCode:	8260_S	Units:	µg/Kg-dry	Prep Date:	11/25/2015	RunNo:	12608
Client ID:	BatchQC	Batch ID:	7322	TestNo:	SW8260C	SW5035A		Analysis Date:	11/25/2015	SeqNo:	235233
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	34	5.0	49.80	0	69.0	22	144				
1,1,2,2-Tetrachloroethane	33	5.0	49.80	0	67.2	21	133				
1,1,2-Trichloroethane	32	5.0	49.80	0	64.7	24	130				
1,1-Dichloroethane	33	5.0	49.80	0	66.0	29	138				
1,1-Dichloroethene	35	5.0	49.80	0	70.6	25	143				
1,2-Dichlorobenzene	34	5.0	49.80	0	69.2	14	130				
1,2-Dichloroethane	33	5.0	49.80	0	66.3	24	137				
1,2-Dichloropropane	33	5.0	49.80	0	65.3	30	132				
1,3-Dichlorobenzene	34	5.0	49.80	0	69.1	14	131				
1,4-Dichlorobenzene	34	5.0	49.80	0	67.7	19	128				
2-Chloroethyl vinyl ether	26	5.0	49.80	0	51.4	13	123				*
Benzene	33	5.0	49.80	0	66.3	20	142				
Bromodichloromethane	34	5.0	49.80	0	68.0	24	126				
Bromoform	40	5.0	49.80	0	81.1	20	135				
Bromomethane	22	5.0	49.80	0	43.9	21	137				
Carbon tetrachloride	35	5.0	49.80	0	70.0	20	143				
Chlorobenzene	33	5.0	49.80	0	66.9	21	129				
Chloroethane	45	5.0	49.80	0	90.6	25	147				
Chloroform	34	5.0	49.80	0	67.7	34	133				
Chloromethane	35	5.0	49.80	0	71.1	30	148				*
cis-1,3-Dichloropropene	32	5.0	49.80	0	64.9	20	130				
Dibromochloromethane	34	5.0	49.80	0	69.2	20	130				
Ethylbenzene	34	5.0	49.80	0	69.0	20	130				
Methylene chloride	18	10	49.80	0	35.8	20	130				*
Tetrachloroethene	28	5.0	49.80	0	56.4	20	120				
Toluene	34	5.0	49.80	0	68.8	21	142				

**Qualifiers:** R RPD outside accepted recovery limits

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# QC SUMMARY REPORT

WO#: 1511159

02-Dec-15

**Client:** Seacliff Environmental

**Project:** 150 East 1st Street, Mount Vernon, NY

**BatchID:** 7322

Sample ID	1511160-001AMS	SampType:	MS	TestCode:	8260_S	Units:	µg/Kg-dry	Prep Date:	11/25/2015	RunNo:	12608
Client ID:	BatchQC	Batch ID:	7322	TestNo:	SW8260C	SW5035A		Analysis Date:	11/25/2015	SeqNo:	235233
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,2-Dichloroethene	34	5.0	49.80	0	67.4	28	132				
trans-1,3-Dichloropropene	33	5.0	49.80	0	65.9	20	130				
Trichloroethene	32	5.0	49.80	0	64.9	22	147				
Trichlorofluoromethane	44	5.0	49.80	0	89.0	42	149				
Vinyl chloride	41	5.0	49.80	0	82.2	35	152				
Surr: 4-Bromofluorobenzene	44		49.80		88.5	48	136				
Surr: Dibromofluoromethane	52		49.80		104	44	154				
Surr: Toluene-d8	52		49.80		105	58	141				

Sample ID	1511160-001AMSD	SampType:	MSD	TestCode:	8260_S	Units:	µg/Kg-dry	Prep Date:	11/25/2015	RunNo:	12608
Client ID:	BatchQC	Batch ID:	7322	TestNo:	SW8260C	SW5035A		Analysis Date:	11/25/2015	SeqNo:	235234
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	33	5.1	50.78	0	65.6	22	144	34.34	3.10	20	
1,1,1,2,2-Tetrachloroethane	33	5.1	50.78	0	64.6	21	133	33.48	1.99	20	
1,1,2-Trichloroethane	31	5.1	50.78	0	61.7	24	130	32.21	2.82	20	
1,1-Dichloroethane	32	5.1	50.78	0	62.3	29	138	32.86	3.78	20	
1,1-Dichloroethene	34	5.1	50.78	0	67.6	25	143	35.18	2.47	20	
1,2-Dichlorobenzene	34	5.1	50.78	0	67.8	14	130	34.44	0.000457	20	
1,2-Dichloroethane	31	5.1	50.78	0	61.8	24	137	33.04	5.20	20	
1,2-Dichloropropane	32	5.1	50.78	0	62.4	30	132	32.53	2.62	20	
1,3-Dichlorobenzene	35	5.1	50.78	0	68.2	14	131	34.41	0.617	20	
1,4-Dichlorobenzene	34	5.1	50.78	0	67.0	19	128	33.72	0.918	20	
2-Chloroethyl vinyl ether	22	5.1	50.78	0	43.0	13	123	25.60	15.8	20	*
Benzene	31	5.1	50.78	0	62.0	20	142	33.03	4.75	20	

**Qualifiers:** R RPD outside accepted recovery limits

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# QC SUMMARY REPORT

WO#: 1511159

02-Dec-15

**Client:** Seacliff Environmental  
**Project:** 150 East 1st Street, Mount Vernon, NY

**BatchID:** 7322

Sample ID	1511160-001AMSD	SampType:	MSD	TestCode:	8260_S	Units:	µg/Kg-dry	Prep Date:	11/25/2015	RunNo:	12608
Client ID:	BatchQC	Batch ID:	7322	TestNo:	SW8260C	SW5035A		Analysis Date:	11/25/2015	SeqNo:	235234
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromodichloromethane	33	5.1	50.78	0	64.8	24	126	33.84	2.77	20	
Bromoform	39	5.1	50.78	0	76.2	20	135	40.41	4.35	20	
Bromomethane	25	5.1	50.78	0	49.3	21	137	21.86	13.6	20	
Carbon tetrachloride	34	5.1	50.78	0	67.2	20	143	34.88	2.21	20	
Chlorobenzene	32	5.1	50.78	0	63.8	21	129	33.32	2.85	20	
Chloroethane	44	5.1	50.78	0	85.7	25	147	45.13	3.65	20	
Chloroform	33	5.1	50.78	0	64.1	34	133	33.73	3.57	20	
Chloromethane	35	5.1	50.78	0	69.4	30	148	35.39	0.436	20	*
cis-1,3-Dichloropropene	31	5.1	50.78	0	61.8	20	130	32.33	3.00	20	
Dibromochloromethane	33	5.1	50.78	0	65.7	20	130	34.44	3.11	20	
Ethylbenzene	33	5.1	50.78	0	64.9	20	130	34.35	4.20	20	
Methylene chloride	18	10	50.78	0	34.9	20	130	17.82	0.533	20	*
Tetrachloroethene	28	5.1	50.78	0	55.1	20	120	28.10	0.447	20	
Toluene	33	5.1	50.78	0	65.4	21	142	34.25	3.08	20	
trans-1,2-Dichloroethene	32	5.1	50.78	0	63.8	28	132	33.56	3.47	20	
trans-1,3-Dichloropropene	32	5.1	50.78	0	62.7	20	130	32.80	2.93	20	
Trichloroethene	31	5.1	50.78	0	61.8	22	147	32.31	2.87	20	
Trichlorofluoromethane	44	5.1	50.78	0	86.5	42	149	44.30	0.893	20	
Vinyl chloride	41	5.1	50.78	0	81.5	35	152	40.92	1.13	20	
Surr: 4-Bromofluorobenzene	45		50.78		89.5	48	136		0	20	
Surr: Dibromofluoromethane	52		50.78		103	44	154		0	20	
Surr: Toluene-d8	53		50.78		104	58	141		0	20	

**Qualifiers:** R RPD outside accepted recovery limits

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# QC SUMMARY REPORT

WO#: 1511159

02-Dec-15

**Client:** Seacliff Environmental  
**Project:** 150 East 1st Street, Mount Vernon, NY

**BatchID:** 7322

Sample ID	LCS-7322	SampType: LCS	TestCode: 8260_S	Units: µg/Kg	Prep Date: 11/25/2015	RunNo: 12584					
Client ID: LCSS	Batch ID: 7322	TestNo: SW8260C	SW5035A	Analysis Date: 11/25/2015	SeqNo: 234909						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	37	5.0	50.00	0	74.2	42	145				
1,1,2,2-Tetrachloroethane	38	5.0	50.00	0	75.4	44	138				
1,1,2-Trichloroethane	38	5.0	50.00	0	75.0	47	135				
1,1-Dichloroethane	36	5.0	50.00	0	72.3	41	134				
1,1-Dichloroethene	38	5.0	50.00	0	75.6	48	145				
1,2-Dichlorobenzene	39	5.0	50.00	0	77.2	39	124				
1,2-Dichloroethane	37	5.0	50.00	0	73.3	46	140				
1,2-Dichloropropane	36	5.0	50.00	0	71.6	50	124				
1,3-Dichlorobenzene	38	5.0	50.00	0	77.0	24	136				
1,4-Dichlorobenzene	38	5.0	50.00	0	76.4	23	128				
2-Chloroethyl vinyl ether	35	5.0	50.00	0	69.7	21	130				
Benzene	36	5.0	50.00	0	72.1	47	133				
Bromodichloromethane	38	5.0	50.00	0	76.2	48	125				
Bromoform	45	5.0	50.00	0	89.8	27	140				
Bromomethane	18	5.0	50.00	0	36.7	20	153				
Carbon tetrachloride	38	5.0	50.00	0	75.4	49	141				
Chlorobenzene	37	5.0	50.00	0	75.0	45	120				
Chloroethane	47	5.0	50.00	0	94.5	37	150				
Chloroform	36	5.0	50.00	0	73.0	43	136				
Chloromethane	36	5.0	50.00	0	72.7	27	146				
cis-1,3-Dichloropropene	38	5.0	50.00	0	76.1	47	128				
Dibromochloromethane	39	5.0	50.00	0	78.6	42	137				
Ethylbenzene	39	5.0	50.00	0	77.0	46	131				
Methylene chloride	19	10	50.00	0	38.1	20	120				
Tetrachloroethene	31	5.0	50.00	0	62.7	33	120				
Toluene	38	5.0	50.00	0	75.8	50	130				

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

W Sample container temperature is out of limit as sp



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# QC SUMMARY REPORT

WO#: 1511159  
 02-Dec-15

**Client:** Seaclyff Environmental  
**Project:** 150 East 1st Street, Mount Vernon, NY

**BatchID:** 7322

Sample ID	<b>LCS-7322</b>	SampType:	<b>LCS</b>	TestCode:	<b>8260_S</b>	Units:	<b>µg/Kg</b>	Prep Date:	<b>11/25/2015</b>	RunNo:	<b>12584</b>
Client ID:	<b>LCSS</b>	Batch ID:	<b>7322</b>	TestNo:	<b>SW8260C</b>		<b>SW5035A</b>	Analysis Date:	<b>11/25/2015</b>	SeqNo:	<b>234909</b>
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,2-Dichloroethene	36	5.0	50.00	0	72.6	45	141				
trans-1,3-Dichloropropene	38	5.0	50.00	0	76.0	46	135				
Trichloroethene	36	5.0	50.00	0	72.6	46	129				
Trichlorofluoromethane	48	5.0	50.00	0	96.1	46	151				
Vinyl chloride	41	5.0	50.00	0	81.3	43	153				
Surr: 4-Bromofluorobenzene	46		50.00		92.6	48	136				
Surr: Dibromofluoromethane	52		50.00		105	44	154				
Surr: Toluene-d8	53		50.00		106	58	141				

Sample ID	<b>MB-7322</b>	SampType:	<b>MBLK</b>	TestCode:	<b>8260_S</b>	Units:	<b>µg/Kg</b>	Prep Date:	<b>11/25/2015</b>	RunNo:	<b>12584</b>
Client ID:	<b>PBS</b>	Batch ID:	<b>7322</b>	TestNo:	<b>SW8260C</b>		<b>SW5035A</b>	Analysis Date:	<b>11/25/2015</b>	SeqNo:	<b>234910</b>
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0									U
1,1,1-Trichloroethane	ND	5.0									U
1,1,2,2-Tetrachloroethane	ND	5.0									U
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0									U
1,1,2-Trichloroethane	ND	5.0									U
1,1-Dichloroethane	ND	5.0									U
1,1-Dichloroethene	ND	5.0									U
1,1-Dichloropropene	ND	5.0									U
1,2,3-Trichlorobenzene	ND	5.0									U
1,2,3-Trichloropropane	ND	5.0									U
1,2,4,5-Tetramethylbenzene	ND	5.0									U
1,2,4-Trichlorobenzene	ND	5.0									U

**Qualifiers:** R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as sp



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# QC SUMMARY REPORT

WO#: 1511159  
 02-Dec-15

**Client:** Seacliff Environmental  
**Project:** 150 East 1st Street, Mount Vernon, NY

**BatchID:** 7322

Sample ID	MB-7322	SampType:	MBLK	TestCode:	8260_S	Units:	µg/Kg	Prep Date:	11/25/2015	RunNo:	12584
Client ID:	PBS	Batch ID:	7322	TestNo:	SW8260C	SW5035A		Analysis Date:	11/25/2015	SeqNo:	234910
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	ND	5.0									U
1,2-Dibromo-3-chloropropane	ND	5.0									U
1,2-Dibromoethane	ND	5.0									U
1,2-Dichlorobenzene	ND	5.0									U
1,2-Dichloroethane	ND	5.0									U
1,2-Dichloropropane	ND	5.0									U
1,3,5-Trimethylbenzene	ND	5.0									U
1,3-Dichlorobenzene	ND	5.0									U
1,3-dichloropropane	ND	5.0									U
1,4-Dichlorobenzene	ND	5.0									U
1,4-Dioxane	ND	5.0									U
2,2-Dichloropropane	ND	5.0									U
2-Butanone	ND	10									U
2-Chloroethyl vinyl ether	ND	5.0									U
2-Chlorotoluene	ND	5.0									U
2-Hexanone	ND	10									U
2-Propanol	ND	5.0									U
4-Chlorotoluene	ND	5.0									U
4-Isopropyltoluene	ND	5.0									U
4-Methyl-2-pentanone	ND	10									U
Acetone	ND	10									U
Benzene	ND	5.0									U
Bromobenzene	ND	5.0									U
Bromochloromethane	ND	5.0									U
Bromodichloromethane	ND	5.0									U
Bromoform	ND	5.0									U

**Qualifiers:** R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as sp



American Analytical Laboratories, LLC.  
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 Website: www.American-Analytical.com

# QC SUMMARY REPORT

WO#: 1511159  
 02-Dec-15

**Client:** Seacliff Environmental  
**Project:** 150 East 1st Street, Mount Vernon, NY

**BatchID:** 7322

Sample ID	MB-7322	SampType:	MBLK	TestCode:	8260_S	Units:	µg/Kg	Prep Date:	11/25/2015	RunNo:	12584
Client ID:	PBS	Batch ID:	7322	TestNo:	SW8260C	SW5035A		Analysis Date:	11/25/2015	SeqNo:	234910
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromomethane	ND	5.0									U
Carbon disulfide	ND	5.0									U
Carbon tetrachloride	ND	5.0									U
Chlorobenzene	ND	5.0									U
Chlorodifluoromethane	ND	5.0									U
Chloroethane	ND	5.0									U
Chloroform	ND	5.0									U
Chloromethane	ND	5.0									U
cis-1,2-Dichloroethene	ND	5.0									U
cis-1,3-Dichloropropene	ND	5.0									U
Cyclohexane	ND	5.0									U
Dibromochloromethane	ND	5.0									U
Dibromomethane	ND	5.0									U
Dichlorodifluoromethane	ND	5.0									U
Diisopropyl ether	ND	5.0									U
Ethanol	ND	20									U
Ethylbenzene	ND	5.0									U
Freon-114	ND	5.0									U
Hexachlorobutadiene	ND	5.0									U
Isopropylbenzene	ND	5.0									U
m,p-Xylene	ND	10									U
Methyl Acetate	ND	5.0									U
Methyl tert-butyl ether	ND	5.0									U
Methylene chloride	ND	10									U
n-Butylbenzene	ND	5.0									U
n-Propylbenzene	ND	5.0									U

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# QC SUMMARY REPORT

WO#: 1511159  
 02-Dec-15

**Client:** Seacliff Environmental  
**Project:** 150 East 1st Street, Mount Vernon, NY

**BatchID:** 7322

Sample ID	MB-7322	SampType:	MBLK	TestCode:	8260_S	Units:	µg/Kg	Prep Date:	11/25/2015	RunNo:	12584
Client ID:	PBS	Batch ID:	7322	TestNo:	SW8260C	SW5035A		Analysis Date:	11/25/2015	SeqNo:	234910
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	5.0									U
o-Xylene	ND	5.0									U
p-Diethylbenzene	ND	5.0									U
p-Ethyltoluene	ND	5.0									U
sec-Butylbenzene	ND	5.0									U
Styrene	ND	5.0									U
t-Butyl alcohol	ND	5.0									U
tert-Butylbenzene	ND	5.0									U
Tetrachloroethene	ND	5.0									U
Toluene	ND	5.0									U
trans-1,2-Dichloroethene	ND	5.0									U
trans-1,3-Dichloropropene	ND	5.0									U
Trichloroethene	ND	5.0									U
Trichlorofluoromethane	ND	5.0									U
Vinyl acetate	ND	5.0									U
Vinyl chloride	ND	5.0									U
Acrolein	ND	25									U
Acrylonitrile	ND	5.0									U
Surr: 4-Bromofluorobenzene	44		50.00		88.9	48	136				
Surr: Dibromofluoromethane	54		50.00		107	44	154				
Surr: Toluene-d8	51		50.00		102	58	141				

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# QC SUMMARY REPORT

WO#: 1511159

02-Dec-15

**Client:** Seacliff Environmental

**Project:** 150 East 1st Street, Mount Vernon, NY

**BatchID:** 7322

Sample ID	LCS-7322	SampType: LCS	TestCode: 8260_S	Units: µg/Kg	Prep Date: 11/25/2015	RunNo: 12580					
Client ID: LCSS	Batch ID: 7322	TestNo: SW8260C	SW5035A	Analysis Date: 11/25/2015	SeqNo: 234873						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	37	5.0	50.00	0	74.2	42	145				
1,1,2,2-Tetrachloroethane	38	5.0	50.00	0	75.4	44	138				
1,1,2-Trichloroethane	38	5.0	50.00	0	75.0	47	135				
1,1-Dichloroethane	36	5.0	50.00	0	72.3	41	134				
1,1-Dichloroethene	38	5.0	50.00	0	75.6	48	145				
1,2-Dichlorobenzene	39	5.0	50.00	0	77.2	39	124				
1,2-Dichloroethane	37	5.0	50.00	0	73.3	46	140				
1,2-Dichloropropane	36	5.0	50.00	0	71.6	50	124				
1,3-Dichlorobenzene	38	5.0	50.00	0	77.0	24	136				
1,4-Dichlorobenzene	38	5.0	50.00	0	76.4	23	128				
2-Chloroethyl vinyl ether	35	5.0	50.00	0	69.7	21	130				*
Benzene	36	5.0	50.00	0	72.1	47	133				
Bromodichloromethane	38	5.0	50.00	0	76.2	48	125				
Bromoform	45	5.0	50.00	0	89.8	27	140				
Bromomethane	18	5.0	50.00	0	36.7	20	153				
Carbon tetrachloride	38	5.0	50.00	0	75.4	49	141				
Chlorobenzene	37	5.0	50.00	0	75.0	45	120				
Chloroethane	47	5.0	50.00	0	94.5	37	150				
Chloroform	36	5.0	50.00	0	73.0	43	136				
Chloromethane	36	5.0	50.00	0	72.7	27	146				*
cis-1,3-Dichloropropene	38	5.0	50.00	0	76.1	47	128				
Dibromochloromethane	39	5.0	50.00	0	78.6	42	137				
Ethylbenzene	39	5.0	50.00	0	77.0	46	131				
Methylene chloride	19	10	50.00	0	38.1	20	120				*
Tetrachloroethene	31	5.0	50.00	0	62.7	33	120				
Toluene	38	5.0	50.00	0	75.8	50	130				

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S Spike Recovery outside accepted recovery limits

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# QC SUMMARY REPORT

WO#: 1511159  
 02-Dec-15

**Client:** Seacliff Environmental  
**Project:** 150 East 1st Street, Mount Vernon, NY

**BatchID:** 7322

Sample ID	LCS-7322	SampType:	LCS	TestCode:	8260_S	Units:	µg/Kg	Prep Date:	11/25/2015	RunNo:	12580
Client ID:	LCSS	Batch ID:	7322	TestNo:	SW8260C	SW5035A		Analysis Date:	11/25/2015	SeqNo:	234873
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,2-Dichloroethene	36	5.0	50.00	0	72.6	45	141				
trans-1,3-Dichloropropene	38	5.0	50.00	0	76.0	46	135				
Trichloroethene	36	5.0	50.00	0	72.6	46	129				
Trichlorofluoromethane	48	5.0	50.00	0	96.1	46	151				
Vinyl chloride	41	5.0	50.00	0	81.3	43	153				
Surr: 4-Bromofluorobenzene	46		50.00		92.6	48	136				
Surr: Dibromofluoromethane	52		50.00		105	44	154				
Surr: Toluene-d8	53		50.00		106	58	141				

Sample ID	MB-7322	SampType:	MBLK	TestCode:	8260_S	Units:	µg/Kg	Prep Date:	11/25/2015	RunNo:	12580
Client ID:	PBS	Batch ID:	7322	TestNo:	SW8260C	SW5035A		Analysis Date:	11/25/2015	SeqNo:	234874
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0									U
1,1,1-Trichloroethane	ND	5.0									U
1,1,2,2-Tetrachloroethane	ND	5.0									U
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0									U
1,1,2-Trichloroethane	ND	5.0									U
1,1-Dichloroethane	ND	5.0									U
1,1-Dichloroethene	ND	5.0									U
1,1-Dichloropropene	ND	5.0									U
1,2,3-Trichlorobenzene	ND	5.0									U
1,2,3-Trichloropropane	ND	5.0									U
1,2,4,5-Tetramethylbenzene	ND	5.0									U
1,2,4-Trichlorobenzene	ND	5.0									U

**Qualifiers:** R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as sp



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# QC SUMMARY REPORT

WO#: 1511159  
 02-Dec-15

**Client:** Seacliff Environmental  
**Project:** 150 East 1st Street, Mount Vernon, NY

**BatchID:** 7322

Sample ID	MB-7322	SampType:	MBLK	TestCode:	8260_S	Units:	µg/Kg	Prep Date:	11/25/2015	RunNo:	12580
Client ID:	PBS	Batch ID:	7322	TestNo:	SW8260C	SW5035A		Analysis Date:	11/25/2015	SeqNo:	234874
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	ND	5.0									U
1,2-Dibromo-3-chloropropane	ND	5.0									U
1,2-Dibromoethane	ND	5.0									U
1,2-Dichlorobenzene	ND	5.0									U
1,2-Dichloroethane	ND	5.0									U
1,2-Dichloropropane	ND	5.0									U
1,3,5-Trimethylbenzene	ND	5.0									U
1,3-Dichlorobenzene	ND	5.0									U
1,3-dichloropropane	ND	5.0									U
1,4-Dichlorobenzene	ND	5.0									U
1,4-Dioxane	ND	5.0									U
2,2-Dichloropropane	ND	5.0									U
2-Butanone	ND	10									U*
2-Chloroethyl vinyl ether	ND	5.0									U*
2-Chlorotoluene	ND	5.0									U
2-Hexanone	ND	10									U*
2-Propanol	ND	5.0									U
4-Chlorotoluene	ND	5.0									U
4-Isopropyltoluene	ND	5.0									U
4-Methyl-2-pentanone	ND	10									U
Acetone	ND	10									U*
Benzene	ND	5.0									U
Bromobenzene	ND	5.0									U
Bromochloromethane	ND	5.0									U
Bromodichloromethane	ND	5.0									U
Bromoform	ND	5.0									U

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# QC SUMMARY REPORT

WO#: 1511159  
 02-Dec-15

**Client:** Seacliff Environmental  
**Project:** 150 East 1st Street, Mount Vernon, NY

**BatchID:** 7322

Sample ID	MB-7322	SampType:	MBLK	TestCode:	8260_S	Units:	µg/Kg	Prep Date:	11/25/2015	RunNo:	12580
Client ID:	PBS	Batch ID:	7322	TestNo:	SW8260C	SW5035A		Analysis Date:	11/25/2015	SeqNo:	234874
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromomethane	ND	5.0									U
Carbon disulfide	ND	5.0									U
Carbon tetrachloride	ND	5.0									U
Chlorobenzene	ND	5.0									U
Chlorodifluoromethane	ND	5.0									U
Chloroethane	ND	5.0									U
Chloroform	ND	5.0									U
Chloromethane	ND	5.0									U*
cis-1,2-Dichloroethene	ND	5.0									U
cis-1,3-Dichloropropene	ND	5.0									U
Cyclohexane	ND	5.0									U
Dibromochloromethane	ND	5.0									U
Dibromomethane	ND	5.0									U
Dichlorodifluoromethane	ND	5.0									U*
Diisopropyl ether	ND	5.0									U
Ethanol	ND	20									U
Ethylbenzene	ND	5.0									U
Freon-114	ND	5.0									U*
Hexachlorobutadiene	ND	5.0									U
Isopropylbenzene	ND	5.0									U
m,p-Xylene	ND	10									U
Methyl Acetate	ND	5.0									U
Methyl tert-butyl ether	ND	5.0									U
Methylene chloride	ND	10									U*
n-Butylbenzene	ND	5.0									U
n-Propylbenzene	ND	5.0									U

**Qualifiers:** R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as sp



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# QC SUMMARY REPORT

WO#: 1511159  
 02-Dec-15

**Client:** Seacliff Environmental  
**Project:** 150 East 1st Street, Mount Vernon, NY

**BatchID:** 7322

Sample ID	MB-7322	SampType:	MBLK	TestCode:	8260_S	Units:	µg/Kg	Prep Date:	11/25/2015	RunNo:	12580
Client ID:	PBS	Batch ID:	7322	TestNo:	SW8260C	SW5035A		Analysis Date:	11/25/2015	SeqNo:	234874
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	5.0									U
o-Xylene	ND	5.0									U
p-Diethylbenzene	ND	5.0									U
p-Ethyltoluene	ND	5.0									U
sec-Butylbenzene	ND	5.0									U
Styrene	ND	5.0									U
t-Butyl alcohol	ND	5.0									U
tert-Butylbenzene	ND	5.0									U
Tetrachloroethene	ND	5.0									U
Toluene	ND	5.0									U
trans-1,2-Dichloroethene	ND	5.0									U
trans-1,3-Dichloropropene	ND	5.0									U
Trichloroethene	ND	5.0									U
Trichlorofluoromethane	ND	5.0									U
Vinyl acetate	ND	5.0									U
Vinyl chloride	ND	5.0									U
Acrolein	ND	25									U
Acrylonitrile	ND	5.0									U
Surr: 4-Bromofluorobenzene	44		50.00		88.9	48	136				
Surr: Dibromofluoromethane	54		50.00		107	44	154				
Surr: Toluene-d8	51		50.00		102	58	141				

**Qualifiers:** R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as sp



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# QC SUMMARY REPORT

WO#: 1511159  
 02-Dec-15

**Client:** Seacliff Environmental  
**Project:** 150 East 1st Street, Mount Vernon, NY

**BatchID:** 7325

Sample ID	MB-7325	SampType:	MBLK	TestCode:	8270_S	Units:	µg/Kg	Prep Date:	11/30/2015	RunNo:	12634
Client ID:	PBS	Batch ID:	7325	TestNo:	SW8270D	SW3546		Analysis Date:	12/1/2015	SeqNo:	235447
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
3,3'-Dichlorobenzidine	ND	250									U
Atrazine	ND	250									U
Benzaldehyde	ND	500									U
Benzidine	ND	500									U
Caprolactam	ND	250									U

Sample ID	LCS-7325	SampType:	LCS	TestCode:	8270_S	Units:	µg/Kg	Prep Date:	11/30/2015	RunNo:	12634
Client ID:	LCSS	Batch ID:	7325	TestNo:	SW8270D	SW3546		Analysis Date:	12/1/2015	SeqNo:	235448
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
3,3'-Dichlorobenzidine	1300	250	1997	0	67.5	15	129				
Atrazine	ND	250		0	0	44	138				U
Benzaldehyde	ND	500		0	0	22	142				U
Benzidine	1100	500	1997	0	54.0	1	120				
Caprolactam	ND	250		0	0	29	133				U

Sample ID	LCSD-7325	SampType:	LCSD	TestCode:	8270_S	Units:	µg/Kg	Prep Date:	11/30/2015	RunNo:	12634
Client ID:	LCSS02	Batch ID:	7325	TestNo:	SW8270D	SW3546		Analysis Date:	12/1/2015	SeqNo:	235449
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
3,3'-Dichlorobenzidine	1400	250	2000	0	71.9	15	129	1347	6.46	20	
Atrazine	ND	250		0	0	44	138	0	0	20	U
Benzaldehyde	ND	500		0	0	22	142	0	0	20	U

**Qualifiers:** R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as sp



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# QC SUMMARY REPORT

WO#: 1511159  
 02-Dec-15

**Client:** Seacliff Environmental  
**Project:** 150 East 1st Street, Mount Vernon, NY

**BatchID:** 7325

Sample ID	<b>LCSD-7325</b>	SampType:	<b>LCSD</b>	TestCode:	<b>8270_S</b>	Units:	<b>µg/Kg</b>	Prep Date:	<b>11/30/2015</b>	RunNo:	<b>12634</b>					
Client ID:	<b>LCSS02</b>	Batch ID:	<b>7325</b>	TestNo:	<b>SW8270D</b>		<b>SW3546</b>	Analysis Date:	<b>12/1/2015</b>	SeqNo:	<b>235449</b>					
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzidine		1000		500		2000		0		50.2	1	120	1078	7.12	20	
Caprolactam		ND		250				0		0	29	133	0	0	20	U

**Qualifiers:** R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as sp



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# QC SUMMARY REPORT

WO#: 1511159

02-Dec-15

**Client:** Seacliff Environmental  
**Project:** 150 East 1st Street, Mount Vernon, NY

**BatchID:** 7325

Sample ID	MB-7325	SampType:	MBLK	TestCode:	8270_S	Units:	µg/Kg	Prep Date:	11/30/2015	RunNo:	12633
Client ID:	PBS	Batch ID:	7325	TestNo:	SW8270D	SW3546		Analysis Date:	12/1/2015	SeqNo:	235435
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Biphenyl	ND	250									U
1,2,4-Trichlorobenzene	ND	250									U
1,2-Dichlorobenzene	ND	250									U
1,3-Dichlorobenzene	ND	250									U
1,4-Dichlorobenzene	ND	250									U
2,4,5-Trichlorophenol	ND	250									U
2,4,6-Trichlorophenol	ND	250									U
2,4-Dichlorophenol	ND	250									U
2,4-Dimethylphenol	ND	250									U
2,4-Dinitrophenol	ND	500									U*
2,4-Dinitrotoluene	ND	250									U
2,6-Dinitrotoluene	ND	250									U
2-Chloronaphthalene	ND	250									U
2-Chlorophenol	ND	250									U
2-Methylnaphthalene	ND	250									U
2-Methylphenol	ND	250									U
2-Nitroaniline	ND	250									U
2-Nitrophenol	ND	250									U
3+4-Methylphenol	ND	250									U
3-Nitroaniline	ND	250									U
4,6-Dinitro-2-methylphenol	ND	500									U
4-Bromophenyl phenyl ether	ND	250									U
4-Chloro-3-methylphenol	ND	250									U
4-Chloroaniline	ND	250									U
4-Chlorophenyl phenyl ether	ND	250									U
4-Nitroaniline	ND	250									U

**Qualifiers:** R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as sp



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# QC SUMMARY REPORT

WO#: 1511159  
 02-Dec-15

**Client:** Seacliff Environmental  
**Project:** 150 East 1st Street, Mount Vernon, NY

**BatchID:** 7325

Sample ID	MB-7325	SampType:	MBLK	TestCode:	8270_S	Units:	µg/Kg	Prep Date:	11/30/2015	RunNo:	12633
Client ID:	PBS	Batch ID:	7325	TestNo:	SW8270D	SW3546		Analysis Date:	12/1/2015	SeqNo:	235435
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Nitrophenol	ND	500									U
Acenaphthene	ND	250									U
Acenaphthylene	ND	250									U
Acetophenone	ND	250									U
Aniline	ND	250									U
Anthracene	ND	250									U
Azobenzene	ND	250									U
Benzo(a)anthracene	ND	250									U
Benzo(a)pyrene	ND	150									U
Benzo(b)fluoranthene	ND	250									U
Benzo(g,h,i)perylene	ND	250									U
Benzo(k)fluoranthene	ND	250									U
Benzoic acid	ND	500									U*
Benzyl alcohol	ND	250									U
Bis(2-chloroethoxy)methane	ND	250									U
Bis(2-chloroethyl)ether	ND	250									U
Bis(2-chloroisopropyl)ether	ND	250									U
Bis(2-ethylhexyl)phthalate	ND	250									U
Butyl benzyl phthalate	ND	250									U
Carbazole	ND	250									U
Chrysene	ND	250									U
Di-n-butyl phthalate	ND	250									U
Di-n-octyl phthalate	ND	500									U
Dibenzo(a,h)anthracene	ND	150									U
Dibenzofuran	ND	250									U
Diethyl phthalate	ND	250									U

**Qualifiers:** R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as sp



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 Website: www.American-Analytical.com

# QC SUMMARY REPORT

WO#: 1511159

02-Dec-15

**Client:** Seacliff Environmental

**Project:** 150 East 1st Street, Mount Vernon, NY

**BatchID:** 7325

Sample ID	MB-7325	SampType:	MBLK	TestCode:	8270_S	Units:	µg/Kg	Prep Date:	11/30/2015	RunNo:	12633
Client ID:	PBS	Batch ID:	7325	TestNo:	SW8270D	SW3546		Analysis Date:	12/1/2015	SeqNo:	235435
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dimethyl phthalate	ND	250									U
Fluoranthene	ND	250									U
Fluorene	ND	250									U
Hexachlorobenzene	ND	250									U
Hexachlorobutadiene	ND	250									U
Hexachlorocyclopentadiene	ND	250									U
Hexachloroethane	ND	250									U
Indeno(1,2,3-c,d)pyrene	ND	250									U
Isophorone	ND	250									U
N-Nitrosodi-n-propylamine	ND	150									U
N-Nitrosodimethylamine	ND	250									U
N-Nitrosodiphenylamine	ND	250									U
Naphthalene	ND	250									U
Nitrobenzene	ND	250									U
Parathion	ND	500									U
Pentachlorophenol	ND	500									U
Phenanthrene	ND	250									U
Phenol	ND	250									U
Pyrene	ND	250									U
Pyridine	ND	250									U
Surr: 2,4,6-Tribromophenol	1200		1997		61.8	13	137				
Surr: 2-Fluorobiphenyl	830		998.5		82.7	15	128				
Surr: 2-Fluorophenol	1600		1997		82.4	18	120				
Surr: 4-Terphenyl-d14	900		998.5		90.1	10	138				
Surr: Nitrobenzene-d5	760		998.5		75.7	10	128				
Surr: Phenol-d6	1600		1997		82.0	10	122				

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

W Sample container temperature is out of limit as sp



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# QC SUMMARY REPORT

WO#: 1511159

02-Dec-15

**Client:** Seacliff Environmental  
**Project:** 150 East 1st Street, Mount Vernon, NY

**BatchID:** 7325

Sample ID <b>MB-7325</b>	SampType: <b>MBLK</b>	TestCode: <b>8270_S</b>	Units: <b>µg/Kg</b>	Prep Date: <b>11/30/2015</b>	RunNo: <b>12633</b>						
Client ID: <b>PBS</b>	Batch ID: <b>7325</b>	TestNo: <b>SW8270D</b>	<b>SW3546</b>	Analysis Date: <b>12/1/2015</b>	SeqNo: <b>235435</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID <b>LCS-7325</b>	SampType: <b>LCS</b>	TestCode: <b>8270_S</b>	Units: <b>µg/Kg</b>	Prep Date: <b>11/30/2015</b>	RunNo: <b>12633</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>7325</b>	TestNo: <b>SW8270D</b>	<b>SW3546</b>	Analysis Date: <b>12/1/2015</b>	SeqNo: <b>235436</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Biphenyl	1800	250	1997	0	87.9	37	135				
1,2,4-Trichlorobenzene	1700	250	1997	0	83.4	20	140				
1,2-Dichlorobenzene	1700	250	1997	0	83.9	26	134				
1,3-Dichlorobenzene	1600	250	1997	0	78.9	21	141				
1,4-Dichlorobenzene	1700	250	1997	0	82.8	24	143				
2,4,5-Trichlorophenol	ND	250		0	0	33	133				U
2,4,6-Trichlorophenol	1600	250	1997	0	81.8	28	146				
2,4-Dichlorophenol	1800	250	1997	0	88.2	27	142				
2,4-Dimethylphenol	1800	250	1997	0	89.0	15	138				
2,4-Dinitrophenol	300	500	1997	0	14.9	1	144				J*
2,4-Dinitrotoluene	1800	250	1997	0	91.9	23	153				
2,6-Dinitrotoluene	1700	250	1997	0	83.5	27	140				
2-Chloronaphthalene	1800	250	1997	0	89.0	28	147				
2-Chlorophenol	1800	250	1997	0	89.9	23	144				
2-Methylnaphthalene	ND	250		0	0	24	134				U
2-Methylphenol	ND	250		0	0	23	143				U
2-Nitroaniline	1800	250	1997	0	90.7	18	148				
2-Nitrophenol	1700	250	1997	0	83.1	11	147				
3+4-Methylphenol	ND	250		0	0	16	137				U
3-Nitroaniline	1800	250	1997	0	89.9	18	133				

**Qualifiers:** R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as sp



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# QC SUMMARY REPORT

WO#: 1511159

02-Dec-15

**Client:** Seacliff Environmental  
**Project:** 150 East 1st Street, Mount Vernon, NY

**BatchID:** 7325

Sample ID	LCS-7325	SampType: LCS	TestCode: 8270_S	Units: µg/Kg	Prep Date: 11/30/2015	RunNo: 12633					
Client ID: LCSS	Batch ID: 7325	TestNo: SW8270D	SW3546	Analysis Date: 12/1/2015	SeqNo: 235436						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,6-Dinitro-2-methylphenol	940	500	1997	0	47.1	10	147				
4-Bromophenyl phenyl ether	1800	250	1997	0	90.2	33	137				
4-Chloro-3-methylphenol	1800	250	1997	0	92.2	27	143				
4-Chloroaniline	1400	250	1997	0	70.6	10	112				
4-Chlorophenyl phenyl ether	1800	250	1997	0	91.5	34	135				
4-Nitroaniline	1900	250	1997	0	93.4	25	141				
4-Nitrophenol	1700	500	1997	0	84.2	9	150				
Acenaphthene	1800	250	1997	0	89.2	30	141				
Acenaphthylene	1800	250	1997	0	88.8	30	139				
Acetophenone	1700	250	1997	0	85.5	30	134				
Aniline	ND	250		0	0	10	100				U
Anthracene	1800	250	1997	0	92.6	32	141				
Azobenzene	ND	250		0	0	42	120				U
Benzo(a)anthracene	2000	250	1997	0	101	28	145				
Benzo(a)pyrene	1900	150	1997	0	96.5	25	144				
Benzo(b)fluoranthene	1900	250	1997	0	94.5	25	148				
Benzo(g,h,i)perylene	1800	250	1997	0	92.6	23	148				
Benzo(k)fluoranthene	2000	250	1997	0	99.1	27	144				
Benzoic acid	ND	500		0	0	1	149				U*
Benzyl alcohol	ND	250		0	0	21	141				U
Bis(2-chloroethoxy)methane	1700	250	1997	0	87.5	24	147				
Bis(2-chloroethyl)ether	1800	250	1997	0	88.3	28	148				
Bis(2-chloroisopropyl)ether	1700	250	1997	0	87.5	22	147				
Bis(2-ethylhexyl)phthalate	2100	250	1997	0	104	26	156				
Butyl benzyl phtalate	2100	250	1997	0	105	30	149				
Carbazole	ND	250		0	0	29	146				U

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

W Sample container temperature is out of limit as sp



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# QC SUMMARY REPORT

WO#: 1511159  
 02-Dec-15

**Client:** Seacliff Environmental  
**Project:** 150 East 1st Street, Mount Vernon, NY

**BatchID:** 7325

Sample ID	LCS-7325	SampType: LCS	TestCode: 8270_S	Units: µg/Kg	Prep Date: 11/30/2015	RunNo: 12633					
Client ID: LCSS	Batch ID: 7325	TestNo: SW8270D	SW3546	Analysis Date: 12/1/2015	SeqNo: 235436						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chrysene	1900	250	1997	0	97.4	29	142				
Di-n-butyl phthalate	1900	250	1997	0	95.3	30	149				
Di-n-octyl phthalate	1900	500	1997	0	95.0	24	150				
Dibenzo(a,h)anthracene	1900	150	1997	0	93.8	29	145				
Dibenzofuran	ND	250		0	0	30	145				U
Diethyl phthalate	1900	250	1997	0	94.5	33	148				
Dimethyl phthalate	1800	250	1997	0	90.4	28	153				
Fluoranthene	1900	250	1997	0	95.6	27	144				
Fluorene	1800	250	1997	0	92.5	29	140				
Hexachlorobenzene	1900	250	1997	0	92.7	24	149				
Hexachlorobutadiene	1700	250	1997	0	83.1	25	138				
Hexachlorocyclopentadiene	1500	250	1997	0	76.0	13	147				
Hexachloroethane	1600	250	1997	0	79.5	22	140				
Indeno(1,2,3-c,d)pyrene	1900	250	1997	0	93.2	25	155				
Isophorone	1700	250	1997	0	85.4	24	145				
N-Nitrosodi-n-propylamine	1700	150	1997	0	86.1	17	148				
N-Nitrosodimethylamine	1500	250	1997	0	77.1	13	147				
N-Nitrosodiphenylamine	1800	250	1997	0	90.0	23	139				
Naphthalene	1700	250	1997	0	85.8	23	146				
Nitrobenzene	1700	250	1997	0	83.9	21	146				
Parathion	ND	500		0	0	22	154				U
Pentachlorophenol	1200	500	1997	0	61.6	6	140				
Phenanthrene	1900	250	1997	0	93.6	30	147				
Phenol	1800	250	1997	0	87.9	17	151				
Pyrene	1900	250	1997	0	97.5	27	149				
Pyridine	ND	250		0	0	18	108				U

**Qualifiers:** R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as sp



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# QC SUMMARY REPORT

WO#: 1511159  
 02-Dec-15

**Client:** Seaclyff Environmental  
**Project:** 150 East 1st Street, Mount Vernon, NY

**BatchID:** 7325

Sample ID	SampType	TestCode	Units	Prep Date	RunNo						
LCS-7325	LCS	8270_S	µg/Kg	11/30/2015	12633						
Client ID: LCSS	Batch ID: 7325	TestNo: SW8270D	SW3546	Analysis Date: 12/1/2015	SeqNo: 235436						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 2,4,6-Tribromophenol	1500		1997		73.5	13	137				
Surr: 2-Fluorobiphenyl	760		998.5		76.3	15	128				
Surr: 2-Fluorophenol	1600		1997		78.4	18	120				
Surr: 4-Terphenyl-d14	820		998.5		82.3	10	138				
Surr: Nitrobenzene-d5	730		998.5		72.8	10	128				
Surr: Phenol-d6	1600		1997		78.9	10	122				

Sample ID	SampType	TestCode	Units	Prep Date	RunNo						
LCSD-7325	LCSD	8270_S	µg/Kg	11/30/2015	12633						
Client ID: LCSS02	Batch ID: 7325	TestNo: SW8270D	SW3546	Analysis Date: 12/1/2015	SeqNo: 235437						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Biphenyl	1700	250	2000	0	85.1	37	135	1756	3.12	20	
1,2,4-Trichlorobenzene	1700	250	2000	0	82.9	20	140	1666	0.485	20	
1,2-Dichlorobenzene	1600	250	2000	0	80.2	26	134	1675	4.29	20	
1,3-Dichlorobenzene	1500	250	2000	0	76.3	21	141	1576	3.26	20	
1,4-Dichlorobenzene	1600	250	2000	0	80.8	24	143	1654	2.40	20	
2,4,5-Trichlorophenol	ND	250		0	0	33	133	0	0	20	U
2,4,6-Trichlorophenol	1700	250	2000	0	84.0	28	146	1634	2.74	20	
2,4-Dichlorophenol	1700	250	2000	0	84.5	27	142	1761	4.14	20	
2,4-Dimethylphenol	1700	250	2000	0	85.8	15	138	1778	3.54	20	
2,4-Dinitrophenol	370	500	2000	0	18.4	1	144	298.5	20.9	20	JR*
2,4-Dinitrotoluene	1700	250	2000	0	84.8	23	153	1836	7.85	20	
2,6-Dinitrotoluene	1600	250	2000	0	81.2	27	140	1668	2.63	20	
2-Chloronaphthalene	1800	250	2000	0	88.2	28	147	1777	0.774	20	
2-Chlorophenol	1700	250	2000	0	86.4	23	144	1796	3.89	20	

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

W Sample container temperature is out of limit as sp



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# QC SUMMARY REPORT

WO#: 1511159

02-Dec-15

**Client:** Seacliff Environmental  
**Project:** 150 East 1st Street, Mount Vernon, NY

**BatchID:** 7325

Sample ID	LCSD-7325	SampType:	LCSD	TestCode:	8270_S	Units:	µg/Kg	Prep Date:	11/30/2015	RunNo:	12633
Client ID:	LCSS02	Batch ID:	7325	TestNo:	SW8270D	SW3546		Analysis Date:	12/1/2015	SeqNo:	235437
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	ND	250		0	0	24	134	0	0	20	U
2-Methylphenol	ND	250		0	0	23	143	0	0	20	U
2-Nitroaniline	1800	250	2000	0	87.6	18	148	1811	3.28	20	
2-Nitrophenol	1600	250	2000	0	82.0	11	147	1659	1.17	20	
3+4-Methylphenol	ND	250		0	0	16	137	0	0	20	U
3-Nitroaniline	1700	250	2000	0	86.1	18	133	1796	4.19	20	
4,6-Dinitro-2-methylphenol	940	500	2000	0	46.8	10	147	940.8	0.447	20	
4-Bromophenyl phenyl ether	1700	250	2000	0	85.0	33	137	1802	5.75	20	
4-Chloro-3-methylphenol	1800	250	2000	0	88.5	27	143	1842	3.91	20	
4-Chloroaniline	1400	250	2000	0	69.8	10	112	1409	0.962	20	
4-Chlorophenyl phenyl ether	1700	250	2000	0	86.8	34	135	1828	5.22	20	
4-Nitroaniline	1800	250	2000	0	88.2	25	141	1864	5.51	20	
4-Nitrophenol	1600	500	2000	0	82.0	9	150	1681	2.48	20	
Acenaphthene	1700	250	2000	0	84.0	30	141	1782	5.89	20	
Acenaphthylene	1700	250	2000	0	84.7	30	139	1773	4.56	20	
Acetophenone	1700	250	2000	0	83.8	30	134	1707	1.91	20	
Aniline	ND	250		0	0	10	100	0	0	20	U
Anthracene	1700	250	2000	0	87.4	32	141	1850	5.70	20	
Azobenzene	ND	250		0	0	42	120	0	0	20	U
Benzo(a)anthracene	1900	250	2000	0	92.8	28	145	2018	8.41	20	
Benzo(a)pyrene	1800	150	2000	0	90.6	25	144	1928	6.25	20	
Benzo(b)fluoranthene	1800	250	2000	0	87.7	25	148	1888	7.39	20	
Benzo(g,h,i)perylene	1700	250	2000	0	86.3	23	148	1850	6.91	20	
Benzo(k)fluoranthene	1900	250	2000	0	97.0	27	144	1979	2.05	20	
Benzoic acid	ND	500		0	0	1	149	0	0	20	U*
Benzyl alcohol	ND	250		0	0	21	141	0	0	20	U

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

W Sample container temperature is out of limit as sp



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# QC SUMMARY REPORT

WO#: 1511159

02-Dec-15

**Client:** Seacliff Environmental

**Project:** 150 East 1st Street, Mount Vernon, NY

**BatchID:** 7325

Sample ID	LCSD-7325	SampType:	LCSD	TestCode:	8270_S	Units:	µg/Kg	Prep Date:	11/30/2015	RunNo:	12633
Client ID:	LCSS02	Batch ID:	7325	TestNo:	SW8270D	SW3546		Analysis Date:	12/1/2015	SeqNo:	235437
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bis(2-chloroethoxy)methane	1700	250	2000	0	83.1	24	147	1747	4.96	20	
Bis(2-chloroethyl)ether	1700	250	2000	0	84.9	28	148	1763	3.80	20	
Bis(2-chloroisopropyl)ether	1700	250	2000	0	82.7	22	147	1747	5.39	20	
Bis(2-ethylhexyl)phthalate	1900	250	2000	0	96.7	26	156	2085	7.51	20	
Butyl benzyl phthalate	2000	250	2000	0	99.5	30	149	2099	5.36	20	
Carbazole	ND	250		0	0	29	146	0	0	20	U
Chrysene	1800	250	2000	0	90.9	29	142	1944	6.77	20	
Di-n-butyl phthalate	1800	250	2000	0	91.2	30	149	1902	4.23	20	
Di-n-octyl phthalate	1800	500	2000	0	89.4	24	150	1897	5.87	20	
Dibenzo(a,h)anthracene	1700	150	2000	0	87.1	29	145	1874	7.27	20	
Dibenzofuran	ND	250		0	0	30	145	0	0	20	U
Diethyl phthalate	1700	250	2000	0	87.4	33	148	1888	7.68	20	
Dimethyl phthalate	1700	250	2000	0	85.0	28	153	1805	5.97	20	
Fluoranthene	1800	250	2000	0	90.1	27	144	1909	5.79	20	
Fluorene	1800	250	2000	0	87.7	29	140	1848	5.28	20	
Hexachlorobenzene	1700	250	2000	0	87.3	24	149	1851	5.81	20	
Hexachlorobutadiene	1600	250	2000	0	81.1	25	138	1659	2.17	20	
Hexachlorocyclopentadiene	1500	250	2000	0	76.6	13	147	1517	1.02	20	
Hexachloroethane	1600	250	2000	0	81.3	22	140	1587	2.40	20	
Indeno(1,2,3-c,d)pyrene	1800	250	2000	0	90.0	25	155	1861	3.26	20	
Isophorone	1600	250	2000	0	82.4	24	145	1706	3.44	20	
N-Nitrosodi-n-propylamine	1700	150	2000	0	82.9	17	148	1719	3.61	20	
N-Nitrosodimethylamine	1500	250	2000	0	74.9	13	147	1540	2.79	20	
N-Nitrosodiphenylamine	1700	250	2000	0	84.8	23	139	1796	5.70	20	
Naphthalene	1600	250	2000	0	82.3	23	146	1714	4.02	20	
Nitrobenzene	1600	250	2000	0	80.1	21	146	1676	4.53	20	

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

W Sample container temperature is out of limit as sp



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# QC SUMMARY REPORT

WO#: 1511159  
 02-Dec-15

**Client:** Seacliff Environmental  
**Project:** 150 East 1st Street, Mount Vernon, NY

**BatchID:** 7325

Sample ID	LCSD-7325	SampType:	LCSD	TestCode:	8270_S	Units:	µg/Kg	Prep Date:	11/30/2015	RunNo:	12633
Client ID:	LCSS02	Batch ID:	7325	TestNo:	SW8270D	SW3546		Analysis Date:	12/1/2015	SeqNo:	235437
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Parathion	ND	500		0	0	22	154	0	0	20	U
Pentachlorophenol	1200	500	2000	0	62.2	6	140	1229	1.14	20	
Phenanthrene	1700	250	2000	0	86.2	30	147	1869	8.06	20	
Phenol	1700	250	2000	0	83.4	17	151	1756	5.10	20	
Pyrene	1800	250	2000	0	87.8	27	149	1946	10.3	20	
Pyridine	ND	250		0	0	18	108	0	0	20	U
Surr: 2,4,6-Tribromophenol	1600		2000		78.1	13	137		0	20	
Surr: 2-Fluorobiphenyl	770		1000		77.2	15	128		0	20	
Surr: 2-Fluorophenol	1600		2000		78.4	18	120		0	20	
Surr: 4-Terphenyl-d14	810		1000		81.1	10	138		0	20	
Surr: Nitrobenzene-d5	750		1000		74.9	10	128		0	20	
Surr: Phenol-d6	1600		2000		79.6	10	122		0	20	

**Qualifiers:** R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as sp



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# QC SUMMARY REPORT

WO#: 1511159  
 02-Dec-15

**Client:** Seacliff Environmental  
**Project:** 150 East 1st Street, Mount Vernon, NY

**BatchID:** 7325

Sample ID <b>MB-7325</b>	SampType: <b>MBLK</b>	TestCode: <b>8270_S</b>	Units: <b>µg/Kg</b>	Prep Date: <b>11/30/2015</b>	RunNo: <b>12596</b>						
Client ID: <b>PBS</b>	Batch ID: <b>7325</b>	TestNo: <b>SW8270D</b>	<b>SW3546</b>	Analysis Date: <b>11/30/2015</b>	SeqNo: <b>235136</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
3,3'-Dichlorobenzidine	ND	250									U
Atrazine	ND	250									U
Benzaldehyde	ND	500									U
Benzidine	ND	500									U
Caprolactam	ND	250									U

Sample ID <b>LCS-7325</b>	SampType: <b>LCS</b>	TestCode: <b>8270_S</b>	Units: <b>µg/Kg</b>	Prep Date: <b>11/30/2015</b>	RunNo: <b>12596</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>7325</b>	TestNo: <b>SW8270D</b>	<b>SW3546</b>	Analysis Date: <b>11/30/2015</b>	SeqNo: <b>235137</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
3,3'-Dichlorobenzidine	1700	250	1997	0	86.6	15	129				
Atrazine	ND	250		0	0	44	138				U
Benzaldehyde	ND	500		0	0	22	142				U
Benzidine	1200	500	1997	0	59.1	1	120				
Caprolactam	ND	250		0	0	29	133				U

Sample ID <b>LCSD-7325</b>	SampType: <b>LCSD</b>	TestCode: <b>8270_S</b>	Units: <b>µg/Kg</b>	Prep Date: <b>11/30/2015</b>	RunNo: <b>12596</b>						
Client ID: <b>LCSS02</b>	Batch ID: <b>7325</b>	TestNo: <b>SW8270D</b>	<b>SW3546</b>	Analysis Date: <b>11/30/2015</b>	SeqNo: <b>235138</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
3,3'-Dichlorobenzidine	1800	250	2000	0	90.7	15	129	0	0	20	
Atrazine	ND	250		0	0	44	138	0	0	20	U
Benzaldehyde	ND	500		0	0	22	142	0	0	20	U

**Qualifiers:** R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as sp



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# QC SUMMARY REPORT

WO#: 1511159  
 02-Dec-15

**Client:** Seacliff Environmental  
**Project:** 150 East 1st Street, Mount Vernon, NY

**BatchID:** 7325

Sample ID	<b>LCSD-7325</b>	SampType:	<b>LCSD</b>	TestCode:	<b>8270_S</b>	Units:	<b>µg/Kg</b>	Prep Date:	<b>11/30/2015</b>	RunNo:	<b>12596</b>			
Client ID:	<b>LCSS02</b>	Batch ID:	<b>7325</b>	TestNo:	<b>SW8270D</b>		<b>SW3546</b>	Analysis Date:	<b>11/30/2015</b>	SeqNo:	<b>235138</b>			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzidine		1200		500	2000	0		59.6	1	120	0	0	20	
Caprolactam		ND		250		0		0	29	133	0	0	20	U

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# QC SUMMARY REPORT

WO#: 1511159  
 02-Dec-15

**Client:** Seacliff Environmental  
**Project:** 150 East 1st Street, Mount Vernon, NY

**BatchID:** 7325

Sample ID	MB-7325	SampType:	MBLK	TestCode:	8270_S	Units:	µg/Kg	Prep Date:	11/30/2015	RunNo:	12595
Client ID:	PBS	Batch ID:	7325	TestNo:	SW8270D	SW3546		Analysis Date:	11/30/2015	SeqNo:	235129
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Biphenyl	ND	250									U
1,2,4-Trichlorobenzene	ND	250									U
1,2-Dichlorobenzene	ND	250									U
1,3-Dichlorobenzene	ND	250									U
1,4-Dichlorobenzene	ND	250									U
2,4,5-Trichlorophenol	ND	250									U
2,4,6-Trichlorophenol	ND	250									U
2,4-Dichlorophenol	ND	250									U
2,4-Dimethylphenol	ND	250									U
2,4-Dinitrophenol	ND	500									U*
2,4-Dinitrotoluene	ND	250									U
2,6-Dinitrotoluene	ND	250									U
2-Chloronaphthalene	ND	250									U
2-Chlorophenol	ND	250									U
2-Methylnaphthalene	ND	250									U
2-Methylphenol	ND	250									U
2-Nitroaniline	ND	250									U
2-Nitrophenol	ND	250									U
3+4-Methylphenol	ND	250									U
3-Nitroaniline	ND	250									U
4,6-Dinitro-2-methylphenol	ND	500									U*
4-Bromophenyl phenyl ether	ND	250									U
4-Chloro-3-methylphenol	ND	250									U
4-Chloroaniline	ND	250									U
4-Chlorophenyl phenyl ether	ND	250									U
4-Nitroaniline	ND	250									U

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WO#: 1511159

02-Dec-15

**Client:** Seacliff Environmental

**Project:** 150 East 1st Street, Mount Vernon, NY

**BatchID:** 7325

Sample ID	MB-7325	SampType:	MBLK	TestCode:	8270_S	Units:	µg/Kg	Prep Date:	11/30/2015	RunNo:	12595
Client ID:	PBS	Batch ID:	7325	TestNo:	SW8270D	SW3546		Analysis Date:	11/30/2015	SeqNo:	235129
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Nitrophenol	ND	500									U
Acenaphthene	ND	250									U
Acenaphthylene	ND	250									U
Acetophenone	ND	250									U
Aniline	ND	250									U
Anthracene	ND	250									U
Azobenzene	ND	250									U
Benzo(a)anthracene	ND	250									U
Benzo(a)pyrene	ND	150									U
Benzo(b)fluoranthene	ND	250									U
Benzo(g,h,i)perylene	ND	250									U*
Benzo(k)fluoranthene	ND	250									U
Benzoic acid	ND	500									U*
Benzyl alcohol	ND	250									U
Bis(2-chloroethoxy)methane	ND	250									U
Bis(2-chloroethyl)ether	ND	250									U
Bis(2-chloroisopropyl)ether	ND	250									U
Bis(2-ethylhexyl)phthalate	ND	250									U
Butyl benzyl phthalate	280	250									U
Carbazole	ND	250									U
Chrysene	ND	250									U
Di-n-butyl phthalate	ND	250									U
Di-n-octyl phthalate	ND	500									U
Dibenzo(a,h)anthracene	ND	150									U
Dibenzofuran	ND	250									U
Diethyl phthalate	ND	250									U

**Qualifiers:** R RPD outside accepted recovery limits

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WO#: 1511159

02-Dec-15

**Client:** Seacliff Environmental

**Project:** 150 East 1st Street, Mount Vernon, NY

**BatchID:** 7325

Sample ID	MB-7325	SampType:	MBLK	TestCode:	8270_S	Units:	µg/Kg	Prep Date:	11/30/2015	RunNo:	12595
Client ID:	PBS	Batch ID:	7325	TestNo:	SW8270D	SW3546		Analysis Date:	11/30/2015	SeqNo:	235129
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dimethyl phthalate	49	250									J
Fluoranthene	ND	250									U
Fluorene	ND	250									U
Hexachlorobenzene	ND	250									U
Hexachlorobutadiene	ND	250									U
Hexachlorocyclopentadiene	ND	250									U
Hexachloroethane	ND	250									U
Indeno(1,2,3-c,d)pyrene	ND	250									U
Isophorone	ND	250									U
N-Nitrosodi-n-propylamine	ND	150									U
N-Nitrosodimethylamine	ND	250									U
N-Nitrosodiphenylamine	ND	250									U
Naphthalene	ND	250									U
Nitrobenzene	ND	250									U
Parathion	ND	500									U
Pentachlorophenol	ND	500									U
Phenanthrene	ND	250									U
Phenol	ND	250									U
Pyrene	ND	250									U
Pyridine	ND	250									U
Surr: 2,4,6-Tribromophenol	1300		1997		62.8	13	137				
Surr: 2-Fluorobiphenyl	920		998.5		91.7	15	128				
Surr: 2-Fluorophenol	1800		1997		92.2	18	120				
Surr: 4-Terphenyl-d14	990		998.5		99.4	10	138				
Surr: Nitrobenzene-d5	800		998.5		80.3	10	128				
Surr: Phenol-d6	1700		1997		87.2	10	122				

**Qualifiers:** R RPD outside accepted recovery limits

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# QC SUMMARY REPORT

WO#: 1511159

02-Dec-15

**Client:** Seaclyff Environmental  
**Project:** 150 East 1st Street, Mount Vernon, NY

**BatchID:** 7325

Sample ID	<b>MB-7325</b>	SampType:	<b>MBLK</b>	TestCode:	<b>8270_S</b>	Units:	<b>µg/Kg</b>	Prep Date:	<b>11/30/2015</b>	RunNo:	<b>12595</b>			
Client ID:	<b>PBS</b>	Batch ID:	<b>7325</b>	TestNo:	<b>SW8270D</b>	<b>SW3546</b>		Analysis Date:	<b>11/30/2015</b>	SeqNo:	<b>235129</b>			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID	<b>LCSD-7325</b>	SampType:	<b>LCSD</b>	TestCode:	<b>8270_S</b>	Units:	<b>µg/Kg</b>	Prep Date:	<b>11/30/2015</b>	RunNo:	<b>12595</b>			
Client ID:	<b>LCSS02</b>	Batch ID:	<b>7325</b>	TestNo:	<b>SW8270D</b>	<b>SW3546</b>		Analysis Date:	<b>11/30/2015</b>	SeqNo:	<b>235131</b>			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Biphenyl		1800		250	2000	0		88.3	37	135	0	0	20	
1,2,4-Trichlorobenzene		1700		250	2000	0		83.2	20	140	0	0	20	
1,2-Dichlorobenzene		1600		250	2000	0		78.8	26	134	0	0	20	
1,3-Dichlorobenzene		1600		250	2000	0		79.3	21	141	0	0	20	
1,4-Dichlorobenzene		1600		250	2000	0		77.8	24	143	0	0	20	
2,4,5-Trichlorophenol		ND		250		0		0	33	133	0	0	20	U
2,4,6-Trichlorophenol		1700		250	2000	0		83.4	28	146	0	0	20	
2,4-Dichlorophenol		1700		250	2000	0		83.1	27	142	0	0	20	
2,4-Dimethylphenol		1700		250	2000	0		86.9	15	138	0	0	20	
2,4-Dinitrophenol		350		500	2000	0		17.6	1	144	0	0	20	J*
2,4-Dinitrotoluene		1500		250	2000	0		72.8	23	153	0	0	20	
2,6-Dinitrotoluene		1500		250	2000	0		72.8	27	140	0	0	20	
2-Chloronaphthalene		1800		250	2000	0		89.2	28	147	0	0	20	
2-Chlorophenol		1800		250	2000	0		88.6	23	144	0	0	20	
2-Methylnaphthalene		ND		250		0		0	24	134	0	0	20	U
2-Methylphenol		ND		250		0		0	23	143	0	0	20	U
2-Nitroaniline		1700		250	2000	0		83.7	18	148	0	0	20	
2-Nitrophenol		1700		250	2000	0		86.6	11	147	0	0	20	
3+4-Methylphenol		ND		250		0		0	16	137	0	0	20	U
3-Nitroaniline		1500		250	2000	0		72.9	18	133	0	0	20	

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

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# QC SUMMARY REPORT

WO#: 1511159

02-Dec-15

**Client:** Seacliff Environmental  
**Project:** 150 East 1st Street, Mount Vernon, NY

**BatchID:** 7325

Sample ID	LCSD-7325	SampType:	LCSD	TestCode:	8270_S	Units:	µg/Kg	Prep Date:	11/30/2015	RunNo:	12595
Client ID:	LCSS02	Batch ID:	7325	TestNo:	SW8270D	SW3546		Analysis Date:	11/30/2015	SeqNo:	235131
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,6-Dinitro-2-methylphenol	720	500	2000	0	35.9	10	147	0	0	20	*
4-Bromophenyl phenyl ether	1900	250	2000	0	92.7	33	137	0	0	20	
4-Chloro-3-methylphenol	1600	250	2000	0	79.0	27	143	0	0	20	
4-Chloroaniline	1500	250	2000	0	75.6	10	112	0	0	20	
4-Chlorophenyl phenyl ether	1600	250	2000	0	82.0	34	135	0	0	20	
4-Nitroaniline	1400	250	2000	0	70.0	25	141	0	0	20	
4-Nitrophenol	1300	500	2000	0	64.4	9	150	0	0	20	
Acenaphthene	1700	250	2000	0	84.8	30	141	0	0	20	
Acenaphthylene	1700	250	2000	0	84.0	30	139	0	0	20	
Acetophenone	1600	250	2000	0	77.8	30	134	0	0	20	
Aniline	ND	250		0	0	10	100	0	0	20	U
Anthracene	1800	250	2000	0	89.6	32	141	0	0	20	
Azobenzene	ND	250		0	0	42	120	0	0	20	U
Benzo(a)anthracene	1900	250	2000	0	93.3	28	145	0	0	20	
Benzo(a)pyrene	1800	150	2000	0	90.0	25	144	0	0	20	
Benzo(b)fluoranthene	1700	250	2000	0	84.7	25	148	0	0	20	
Benzo(g,h,i)perylene	2100	250	2000	0	106	23	148	0	0	20	*
Benzo(k)fluoranthene	1800	250	2000	0	92.2	27	144	0	0	20	
Benzoic acid	ND	500		0	0	1	149	0	0	20	U*
Benzyl alcohol	ND	250		0	0	21	141	0	0	20	U
Bis(2-chloroethoxy)methane	1700	250	2000	0	82.8	24	147	0	0	20	
Bis(2-chloroethyl)ether	1800	250	2000	0	87.9	28	148	0	0	20	
Bis(2-chloroisopropyl)ether	1500	250	2000	0	73.3	22	147	0	0	20	
Bis(2-ethylhexyl)phthalate	1700	250	2000	0	87.2	26	156	0	0	20	
Butyl benzyl phthalate	1900	250	2000	0	94.5	30	149	0	0	20	B
Carbazole	ND	250		0	0	29	146	0	0	20	U

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

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# QC SUMMARY REPORT

WO#: 1511159

02-Dec-15

**Client:** Seacliff Environmental  
**Project:** 150 East 1st Street, Mount Vernon, NY

**BatchID:** 7325

Sample ID	LCSD-7325	SampType:	LCSD	TestCode:	8270_S	Units:	µg/Kg	Prep Date:	11/30/2015	RunNo:	12595
Client ID:	LCSS02	Batch ID:	7325	TestNo:	SW8270D	SW3546		Analysis Date:	11/30/2015	SeqNo:	235131
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chrysene	1800	250	2000	0	89.6	29	142	0	0	20	
Di-n-butyl phthalate	1700	250	2000	0	87.0	30	149	0	0	20	
Di-n-octyl phthalate	1600	500	2000	0	79.9	24	150	0	0	20	
Dibenzo(a,h)anthracene	2100	150	2000	0	103	29	145	0	0	20	
Dibenzofuran	ND	250		0	0	30	145	0	0	20	U
Diethyl phthalate	1600	250	2000	0	78.3	33	148	0	0	20	
Dimethyl phthalate	1600	250	2000	0	81.7	28	153	0	0	20	B
Fluoranthene	1600	250	2000	0	81.4	27	144	0	0	20	
Fluorene	1600	250	2000	0	82.3	29	140	0	0	20	
Hexachlorobenzene	1900	250	2000	0	93.5	24	149	0	0	20	
Hexachlorobutadiene	1700	250	2000	0	83.8	25	138	0	0	20	
Hexachlorocyclopentadiene	1800	250	2000	0	91.6	13	147	0	0	20	
Hexachloroethane	1600	250	2000	0	81.8	22	140	0	0	20	
Indeno(1,2,3-c,d)pyrene	2100	250	2000	0	107	25	155	0	0	20	
Isophorone	1600	250	2000	0	78.2	24	145	0	0	20	
N-Nitrosodi-n-propylamine	1500	150	2000	0	75.9	17	148	0	0	20	
N-Nitrosodimethylamine	1500	250	2000	0	72.7	13	147	0	0	20	
N-Nitrosodiphenylamine	1800	250	2000	0	91.2	23	139	0	0	20	
Naphthalene	1600	250	2000	0	82.0	23	146	0	0	20	
Nitrobenzene	1600	250	2000	0	80.5	21	146	0	0	20	
Parathion	ND	500		0	0	22	154	0	0	20	U
Pentachlorophenol	1200	500	2000	0	57.7	6	140	0	0	20	
Phenanthrene	1700	250	2000	0	87.2	30	147	0	0	20	
Phenol	1700	250	2000	0	85.1	17	151	0	0	20	
Pyrene	1900	250	2000	0	92.8	27	149	0	0	20	
Pyridine	ND	250		0	0	18	108	0	0	20	U

**Qualifiers:** R RPD outside accepted recovery limits

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# QC SUMMARY REPORT

WO#: 1511159

02-Dec-15

**Client:** Seacliff Environmental  
**Project:** 150 East 1st Street, Mount Vernon, NY

**BatchID:** 7325

Sample ID	SampType	TestCode	Units	Prep Date	RunNo						
LCSD-7325	LCSD	8270_S	µg/Kg	11/30/2015	12595						
Client ID: LCSS02	Batch ID: 7325	TestNo: SW8270D	SW3546	Analysis Date: 11/30/2015	SeqNo: 235131						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 2,4,6-Tribromophenol	1600		2000		79.3	13	137		0	20	
Surr: 2-Fluorobiphenyl	810		1000		80.8	15	128		0	20	
Surr: 2-Fluorophenol	1700		2000		85.8	18	120		0	20	
Surr: 4-Terphenyl-d14	860		1000		85.7	10	138		0	20	
Surr: Nitrobenzene-d5	740		1000		74.3	10	128		0	20	
Surr: Phenol-d6	1600		2000		79.8	10	122		0	20	

Sample ID	SampType	TestCode	Units	Prep Date	RunNo						
LCS-7325	LCS	8270_S	µg/Kg	11/30/2015	12595						
Client ID: LCSS	Batch ID: 7325	TestNo: SW8270D	SW3546	Analysis Date: 11/30/2015	SeqNo: 235142						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Biphenyl	1800	250	1997	0	90.9	37	135				
1,2,4-Trichlorobenzene	1700	250	1997	0	87.2	20	140				
1,2-Dichlorobenzene	1600	250	1997	0	81.0	26	134				
1,3-Dichlorobenzene	1600	250	1997	0	81.7	21	141				
1,4-Dichlorobenzene	1600	250	1997	0	80.0	24	143				
2,4,5-Trichlorophenol	ND	250		0	0	33	133				U
2,4,6-Trichlorophenol	1600	250	1997	0	80.6	28	146				
2,4-Dichlorophenol	1800	250	1997	0	88.6	27	142				
2,4-Dimethylphenol	1800	250	1997	0	91.5	15	138				
2,4-Dinitrophenol	280	500	1997	0	13.9	1	144				J*
2,4-Dinitrotoluene	1500	250	1997	0	73.9	23	153				
2,6-Dinitrotoluene	1500	250	1997	0	74.5	27	140				
2-Chloronaphthalene	1800	250	1997	0	91.1	28	147				
2-Chlorophenol	1800	250	1997	0	90.1	23	144				

**Qualifiers:** R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

W Sample container temperature is out of limit as sp



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# QC SUMMARY REPORT

WO#: 1511159

02-Dec-15

**Client:** Seacliff Environmental  
**Project:** 150 East 1st Street, Mount Vernon, NY

**BatchID:** 7325

Sample ID	LCS-7325	SampType: LCS	TestCode: 8270_S	Units: µg/Kg	Prep Date: 11/30/2015	RunNo: 12595					
Client ID: LCSS	Batch ID: 7325	TestNo: SW8270D	SW3546	Analysis Date: 11/30/2015	SeqNo: 235142						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	ND	250		0	0	24	134				U
2-Methylphenol	ND	250		0	0	23	143				U
2-Nitroaniline	1700	250	1997	0	83.3	18	148				
2-Nitrophenol	1700	250	1997	0	87.6	11	147				
3+4-Methylphenol	ND	250		0	0	16	137				U
3-Nitroaniline	1500	250	1997	0	75.1	18	133				
4,6-Dinitro-2-methylphenol	750	500	1997	0	37.5	10	147				*
4-Bromophenyl phenyl ether	2000	250	1997	0	98.2	33	137				
4-Chloro-3-methylphenol	1700	250	1997	0	85.6	27	143				
4-Chloroaniline	1600	250	1997	0	79.6	10	112				
4-Chlorophenyl phenyl ether	1700	250	1997	0	86.5	34	135				
4-Nitroaniline	1500	250	1997	0	74.3	25	141				
4-Nitrophenol	1300	500	1997	0	63.7	9	150				
Acenaphthene	1700	250	1997	0	87.5	30	141				
Acenaphthylene	1700	250	1997	0	87.6	30	139				
Acetophenone	1600	250	1997	0	79.8	30	134				
Aniline	ND	250		0	0	10	100				U
Anthracene	1900	250	1997	0	94.0	32	141				
Azobenzene	ND	250		0	0	42	120				U
Benzo(a)anthracene	2000	250	1997	0	100	28	145				
Benzo(a)pyrene	1900	150	1997	0	97.2	25	144				
Benzo(b)fluoranthene	1900	250	1997	0	94.5	25	148				
Benzo(g,h,i)perylene	2300	250	1997	0	117	23	148				*
Benzo(k)fluoranthene	1900	250	1997	0	92.7	27	144				
Benzoic acid	ND	500		0	0	1	149				U*
Benzyl alcohol	ND	250		0	0	21	141				U

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# QC SUMMARY REPORT

WO#: 1511159

02-Dec-15

**Client:** Seacliff Environmental  
**Project:** 150 East 1st Street, Mount Vernon, NY

**BatchID:** 7325

Sample ID	LCS-7325	SampType: LCS	TestCode: 8270_S	Units: µg/Kg	Prep Date: 11/30/2015	RunNo: 12595					
Client ID: LCSS	Batch ID: 7325	TestNo: SW8270D	SW3546	Analysis Date: 11/30/2015	SeqNo: 235142						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bis(2-chloroethoxy)methane	1800	250	1997	0	89.7	24	147				
Bis(2-chloroethyl)ether	1800	250	1997	0	91.3	28	148				
Bis(2-chloroisopropyl)ether	1600	250	1997	0	78.1	22	147				
Bis(2-ethylhexyl)phthalate	1800	250	1997	0	90.7	26	156				
Butyl benzyl phthalate	1900	250	1997	0	96.2	30	149				B
Carbazole	ND	250		0	0	29	146				U
Chrysene	1900	250	1997	0	94.8	29	142				
Di-n-butyl phthalate	1800	250	1997	0	90.0	30	149				
Di-n-octyl phthalate	1700	500	1997	0	85.1	24	150				
Dibenzo(a,h)anthracene	2200	150	1997	0	111	29	145				
Dibenzofuran	ND	250		0	0	30	145				U
Diethyl phthalate	1700	250	1997	0	83.0	33	148				
Dimethyl phthalate	1700	250	1997	0	85.9	28	153				B
Fluoranthene	1700	250	1997	0	86.4	27	144				
Fluorene	1700	250	1997	0	86.2	29	140				
Hexachlorobenzene	1900	250	1997	0	97.4	24	149				
Hexachlorobutadiene	1800	250	1997	0	88.4	25	138				
Hexachlorocyclopentadiene	1800	250	1997	0	88.7	13	147				
Hexachloroethane	1600	250	1997	0	81.3	22	140				
Indeno(1,2,3-c,d)pyrene	2400	250	1997	0	118	25	155				
Isophorone	1600	250	1997	0	82.5	24	145				
N-Nitrosodi-n-propylamine	1600	150	1997	0	78.4	17	148				
N-Nitrosodimethylamine	1500	250	1997	0	74.2	13	147				
N-Nitrosodiphenylamine	1900	250	1997	0	94.8	23	139				
Naphthalene	1800	250	1997	0	88.2	23	146				
Nitrobenzene	1700	250	1997	0	86.2	21	146				

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# QC SUMMARY REPORT

WO#: 1511159  
 02-Dec-15

**Client:** Seacliff Environmental  
**Project:** 150 East 1st Street, Mount Vernon, NY

**BatchID:** 7325

Sample ID	LCS-7325	SampType: LCS	TestCode: 8270_S	Units: µg/Kg	Prep Date: 11/30/2015	RunNo: 12595					
Client ID: LCSS	Batch ID: 7325	TestNo: SW8270D	SW3546	Analysis Date: 11/30/2015	SeqNo: 235142						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Parathion	ND	500		0	0	22	154				U
Pentachlorophenol	1200	500	1997	0	58.2	6	140				
Phenanthrene	1900	250	1997	0	94.0	30	147				
Phenol	1800	250	1997	0	88.2	17	151				
Pyrene	2000	250	1997	0	100	27	149				
Pyridine	ND	250		0	0	18	108				U
Surr: 2,4,6-Tribromophenol	1600		1997		77.8	13	137				
Surr: 2-Fluorobiphenyl	790		998.5		79.1	15	128				
Surr: 2-Fluorophenol	1600		1997		81.9	18	120				
Surr: 4-Terphenyl-d14	820		998.5		81.8	10	138				
Surr: Nitrobenzene-d5	740		998.5		74.6	10	128				
Surr: Phenol-d6	1600		1997		78.0	10	122				

**Qualifiers:** R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as sp