Appendix H IDW Disposal Letter Report

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Regional Office
33 Boston Post Rd West
Suite 420
Marlborough, MA 01752

Phone: 508.229.2270
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May 22, 2013

Mr. Eric Cheng, P.E.
Technical Manager
U.S. Army Corps of Engineers, Louisville District
600 Martin Luther King Jr. Place
Louisville, Kentucky 40202-0059

Subject: Investigation-Derived Waste Letter Report
2011 Performance-Based Acquisition
Environmental Investigation and Remediation
14 Compliance Restoration Sites
Ravenna Army Ammunition Plant, Ravenna, Ohio
Contract No. W912QR-04-D-0039
Delivery Order No. 0004
Project No. 5161.004

Dear Mr. Cheng:

Investigation activities in accordance with the Site Inspection and Remedial Investigation Work Plan (October 2012) were conducted from 18 March 2013 through 5 April 2013. These activities resulted in the generation of Investigation-Derived Waste (IDW) consisting of soil cuttings from direct push borings and equipment decontamination fluids. The purpose of this letter report is to characterize and classify IDW for disposal and to propose methods for disposing of the IDW.

This letter report includes a summary of IDW generated, the origin of the IDW (Table 1), as well as proposed classification and recommendations for disposal of the IDW (Table 2). This letter report follows guidance established by the following:

1.) The Facility-Wide Sampling and Analysis Plan (SAIC 2011), and
2.) Final Site Inspection and Remedial Investigation (SI/RI) Work Plan (ECC 2012).

Three distinct IDW streams were sampled as part of the SI/RI Work Plan field activities. Each waste stream was composited and sampled per requirements outlined in Section 7.0 of the Facility-Wide Sampling and Analysis Plan (FWSAP) and SI/RI Work Plan. IDW streams generated are:

- One (1) 55-gallon drum containing equipment decontamination fluids (Liquinox, distilled water (DI), and HCL/nitric acid), sampled on 5 April 2013
- One (1) 55-gallon drum containing soils from RI sampling activities conducted at CC RVAAP-68 Electrical Substations East, West, and No. 3, sampled on 3 April 2013. This drum was sampled separately due to possible poly chlorinated byphynel (PCB) contamination
- Three (3) 55-gallon drums containing soils from RI sampling activities, sampled on 5 April 2013.

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Burlingame, CA 94010

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Per Section 7.0 of the Facility-Wide SAP, three composite samples were collected for Toxicity Characteristic Leaching Procedure (TCLP) parameters, flashpoint, reactivity, and corrosivity and submitted for laboratory analysis to characterize the following waste streams for disposal:

- Liquid IDW

The first sample (068SB-0063-0001-IDW) characterized one drum of decontamination fluid containing 2% hydrochloric acid (HCL)/10% nitric acid, deionized (DI) water, and Liquinox). This sample was analyzed for full TCLP plus poly chlorinated biphenyls (PCBs), flashpoint, reactivity, and corrosivity. Sampling equipment used at CC RVAAP-68 Electrical Substations East, West, and No. 3 were decontaminated following standard protocol. Liquid decontamination fluids generated during sampling at CC RVAAP-68 were containerized in the same drum as non-PCB sites. PCB's were a possible site chemical of concern (COC) at the Electrical Substations East, West, and No. 3 due to the former presence of transformers at these sites.

- Solid IDW

The second sample (068SB-0062-0001-IDW) was composited from three, 55-gallon drums containing soil cuttings.

- Solid IDW with possible PCBs

The third sample (078SB-0059-0001-IDW) was composited from one, 55-gallon drum containing soil cuttings. This drum was sampled separately as the soils may have been impacted with PCBs. These soils originated from drill cuttings collected at CC RVAAP-68 Electrical Substations East, West, and No. 3.

Table 1 summarizes the IDW samples collected.

Table 1 – Summary of Site Inspection/Remedial Investigation Investigation-Derived Waste

Container Type and Size	Contents	Generation Dates	Sample ID
55- Gallon Closed Top Drum	De-con Fluids from sampling equipment decontamination	18 March 2013 through 4 April 2013	068SB-0063-0001-IDW
55- Gallon Closed Top Drum	Soil Cuttings	18 March 2013 through 4 April 2013	068SB-0062-0001-IDW
55- Gallon Closed Top Drum	Soil Cuttings	18 March 2013 through 4 April 2013	068SB-0062-0001-IDW
55- Gallon Closed Top Drum	Soil Cuttings	18 March 2013 through 4 April 2013	068SB-0062-0001-IDW
55-Gallon Closed Top Drum	Soil Cuttings	29 March 2013 through 4 April 2013	078SB-0059-0001-IDW

Per Section 8.0 of the FWSAP, non-indigenous IDW is characterized for disposal on the basis of composite samples collected and submitted for laboratory analysis to characterize the waste stream for disposal. Upon receipt of analytical results from the laboratory, the analytical data was reviewed to determine if the waste was potentially hazardous. This review consisted of a comparison of the analytical results against the TCLP criteria presented in Table 8-1 and 8-2, Maximum Concentration of Contaminants for the Toxicity Characteristic (40 Code of Federal Regulation (CFR) 261.24), presented in the FWSAP. The results of this review are summarized below.

IDW –FLUIDS

One liquid composite sample (068SB-0063-0001-IDW) was collected. **Attachment 1** presents the analytical laboratory data for TCLP flashpoint, reactivity, and corrosivity analyses for IDW fluids generated during the 18 March through 5 April field activities. All analytical results were below regulatory levels as presented in Tables 8-1 and 8-2 in the FWSAP.

IDW –SOLIDS

Two solid composite samples (078SB-0059-0001-IDW, and 068SB-0062-0001-IDW) were collected. **Attachment 2** presents the analytical laboratory data for TCLP, flashpoint, reactivity, and corrosivity analyses for IDW solids generated during the 18 March through 5 April 2013 field activities. All analytical results were below regulatory levels as presented in Tables 8-1 and 8-2 in the FWSAP.

Please note the IDW addressed in this letter report has been characterized under provisions of the FWSAP using TCLP analysis and process knowledge. Unless RVAAP has additional information that would result in the IDW meeting, or containing materials that meet, the definition of a listed hazardous waste as defined in 40 CFR Part 261 Subpart D, it is recommended that the IDW, as presently characterized, be disposed as summarized in Table 2.

Table 2 - Summary of Final Waste Classification and Recommended Options

Medium	Waste Criterion	Disposal Recommendation
Water	Inorganics, Organics	Permitted Wastewater Treatment Facility or Permitted Solid Waste Facility
Soils	Inorganics, Organics	Permitted Wastewater Treatment Facility or Permitted Solid Waste Facility
Soils	Inorganics, Organics	Permitted Wastewater Treatment Facility or Permitted Solid Waste Facility

Since RVAAP, under RCRA, is the generator of this material, ECC requests concurrence or direction in the waste classification prior to disposal to ensure materials are properly disposed. Following your direction and immediate approval, ECC will proceed with appropriate waste disposal.

Should you have any questions or wish to discuss the proposed activities further, please do not hesitate to contact the undersigned at (508) 229-2270, ext. 22109, or via email.

Regards,
ECC

Alexander Easterday
Senior Project Manager

Copy: Ann Wood, ARNG
Katie Tait, OHARNG
Mark Patterson, RVAAP Facility Manager
Eileen Mohr, Ohio EPA
Ed D'Amato, Ohio EPA

ATTACHMENTS

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Attachment 1 – IDW Analytical Results - Fluids

Analysis Type	Chemical	Units	Reporting Limit	TCLP Criteria	Results
					068SB-0063-0001-IDW
TCLP Semi-Volatile Organics	1,4-Dichlorobenzene	mg/L	0.00080	7.50	0.00080 U
TCLP Semi-Volatile Organics	2,4,5-Trichlorophenol	mg/L	0.00080	400.00	0.00080 U
TCLP Semi-Volatile Organics	2,4,6-Trichlorophenol	mg/L	0.00080	2.00	0.00080 U
TCLP Semi-Volatile Organics	2,4-Dinitrotoluene	mg/L	0.00080	0.13	0.00080 U
TCLP Semi-Volatile Organics	Hexachlorobenzene	mg/L	0.00010	0.13	0.00010 U
TCLP Semi-Volatile Organics	Hexachlorobutadiene	mg/L	0.00080	0.50	0.00080 U
TCLP Semi-Volatile Organics	Hexachloroethane	mg/L	0.00080	3.00	0.00080 U
TCLP Semi-Volatile Organics	3 &4 Methylphenol	mg/L	0.00080	200	0.00080 U
TCLP Semi-Volatile Organics	2-Methylphenol	mg/L	0.00080	200	0.00080 U
TCLP Semi-Volatile Organics	Nitrobenzene	mg/L	0.00010	2.00	0.00010 U
TCLP Semi-Volatile Organics	Pentachlorophenol	mg/L	00024	100.00	0.0024 U
TCLP Semi-Volatile Organics	Pyidine	mg/L	0.00080	5.00	0.00080 U
TCLP Metals	Arsenic	mg/L	0.010	5.00	0.010 U
TCLP Metals	Barium	mg/L	0.0050	100.00	0.20 J
TCLP Metals	Cadmium	mg/L	0.0010	1.00	0.00057 J
TCLP Metals	Chromium	mg/L	0.0040	5.00	0.0040 U
TCLP Metals	Lead	mg/L	0.0050	5.00	0.0050 U
TCLP Metals	Mercury	mg/L	0.00020	0.20	0.00020 U
TCLP Metals	Selenium	mg/L	0.010	1.00	0.010 U
TCLP Metals	Silver	mg/L	0.0050	5.00	0.0050 U
TCLP Herbicides	2,4,5-TP (Silvex)	mg/L	0.00010	1.00	0.00010 U
TCLP Herbicides	2,4-D	mg/L	0.00025	10.00	0.00025 U
TCLP Pesticides	Chlordane	mg/L	0.000079	0.03	0.000079 U
TCLP Pesticides	Endrin	mg/L	0.000026	0.02	0.000026 U
TCLP Pesticides	Gamma-BHC (Lindane)	mg/L	0.000024	0.40	0.000024 U
TCLP Pesticides	Heptachlor	mg/L	0.000024	0.01	0.000024 U
TCLP Pesticides	Heptachlor Epoxide	mg/L	0.000024	0.01	0.000024 U
TCLP Pesticides	Methoxychlor	mg/L	0.000077	10.00	0.000077 U
TCLP Pesticides	Toxaphene	mg/L	0.0012	0.50	0.0012 U
TCLP Volatile Organics	1,1-Dichloroethene	mg/L	0.013	0.70	0.013 U
TCLP Volatile Organics	1,2-Dichloroethane	mg/L	0.013	0.50	0.013 U
TCLP Volatile Organics	2-Butanone	mg/L	0.025	200	0.030 J
TCLP Volatile Organics	Benzene	mg/L	0.013	0.50	0.013 U
TCLP Volatile Organics	Carbon Tetrachloride	mg/L	0.013	0.50	0.013 U
TCLP Volatile Organics	Chlorobenzene	mg/L	0.013	100.00	0.013 U
TCLP Volatile Organics	Chloroform	mg/L	0.025	6.00	0.013 U
TCLP Volatile Organics	Tetrachloroethylene	mg/L	0.025	0.70	0.025 U
TCLP Volatile Organics	Trichloroethene	mg/L	0.013	0.50	0.013 U
TCLP Volatile Organics	Vinyl Chloride	mg/L	0.013	0.20	0.013 U
PCBs	Aroclor – 1221	µg/L	1.1	-	1.1 U
PCBs	Aroclor – 1016	µg/L	1.1	-	1.1 U
PCBs	Aroclor – 1232	µg/L	2.2	-	1.1 U
PCBs	Aroclor – 1242	µg/L	1.1	-	2.2 U
PCBs	Aroclor – 1248	µg/L	1.1	-	1.1 U
PCBs	Aroclor – 1254	µg/L	1.1	-	1.1 U
PCBs	Aroclor – 1260	µg/L	1.1	-	1.1 U
Flashpoint	Flashpoint	°F	1.0	-	>180 °F
Reactivity	Cyanide, total	mg/L	0.010	-	0.010 U
Reactivity	Sulfide	mg/L	2.5	-	2.5 U
Corrosivity	Corrosivity	SU	0.100	-	7.87

Notes:
J – Estimated value
U – Undetected above laboratory reporting limit
mg/L – milligrams per liter
µg/L – mircograms per liter
SU – Standard units
°F – degrees Fahrenheit

Attachment 2 – IDW Analytical Results - Solids

Analysis Type	Chemical	Units	Reporting Limit	TCLP Criteria	Results	
					068SB-0062-0001-IDW	078SB-0059-0001-IDW
TCLP Semi-Volatile Organics	1,4-Dichlorobenzene	mg/L	0.00080	7.50	0.00080 U	0.00080 U
TCLP Semi-Volatile Organics	2,4,5-Trichlorophenol	mg/L	0.00080	400.00	0.00080 U	0.00080 U
TCLP Semi-Volatile Organics	2,4,6-Trichlorophenol	mg/L	0.00080	2.00	0.00080 U	0.00080 U
TCLP Semi-Volatile Organics	2,4-Dinitrotoluene	mg/L	0.00080	0.13	0.00080 U	0.00080 U
TCLP Semi-Volatile Organics	Hexachlorobenzene	mg/L	0.00010	0.13	0.00010 U	0.00010 U
TCLP Semi-Volatile Organics	Hexachlorobutadiene	mg/L	0.00080	0.50	0.00080 U	0.00080 U
TCLP Semi-Volatile Organics	Hexachloroethane	mg/L	0.00080	3.00	0.00080 U	0.00080 U
TCLP Semi-Volatile Organics	3 & 4 Methylphenol	mg/L	0.00080	200	0.00080 U	0.00080 U
TCLP Semi-Volatile Organics	2-Methylphenol	mg/L	0.00080	200	0.00080 U	0.00080 U
TCLP Semi-Volatile Organics	Nitrobenzene	mg/L	0.00010	2.00	0.00010 U	0.00010 U
TCLP Semi-Volatile Organics	Pentachlorophenol	mg/L	00024	100.00	0.0024 U	0.0024 U
TCLP Semi-Volatile Organics	Pyidine	mg/L	0.00080	5.00	0.00080 U	0.00080 U
TCLP Metals	Arsenic	mg/L	0.010	5.00	0.0045 J	0.0042 J
TCLP Metals	Barium	mg/L	0.0050	100.00	0.60 J	0.46 J
TCLP Metals	Cadmium	mg/L	0.0010	1.00	0.0023 J	0.00043 J
TCLP Metals	Chromium	mg/L	0.0040	5.00	0.0027 J	0.0018 J
TCLP Metals	Lead	mg/L	0.0050	5.00	0.0050 U	0.0050 U
TCLP Metals	Mercury	mg/L	0.00020	0.20	0.00020 U	0.00020 U
TCLP Metals	Selenium	mg/L	0.010	1.00	0.0051 J	0.0042 J
TCLP Metals	Silver	mg/L	0.0050	5.00	0.0050 U	0.0050 U
TCLP Herbicides	2,4,5-TP (Silvex)	mg/L	0.00010	1.00	0.00010 U	0.00010 U
TCLP Herbicides	2,4-D	mg/L	0.00025	10.00	0.00033 J	0.00025 U
TCLP Pesticides	Chlordane	mg/L	0.000079	0.03	0.000079 U	0.000079 U
TCLP Pesticides	Endrin	mg/L	0.000026	0.02	0.000026 U	0.000026 U
TCLP Pesticides	Gamma-BHC (Lindane)	mg/L	0.000024	0.40	0.000024 U	0.000024 U
TCLP Pesticides	Heptachlor	mg/L	0.000024	0.01	0.000024 U	0.000024 U
TCLP Pesticides	Heptachlor Epoxide	mg/L	0.000024	0.01	0.000024 U	0.000024 U
TCLP Pesticides	Methoxychlor	mg/L	0.000077	10.00	0.000077 U	0.000077 U
TCLP Pesticides	Toxaphene	mg/L	0.0012	0.50	0.0012 U	0.0012 U
TCLP Volatile Organics	1,1-Dichloroethene	mg/L	0.013	0.70	0.013 U	0.013 U
TCLP Volatile Organics	1,2-Dichloroethane	mg/L	0.013	0.50	0.013 U	0.013 U
TCLP Volatile Organics	2-Butanone	mg/L	0.025	200	0.025 U	0.025 U
TCLP Volatile Organics	Benzene	mg/L	0.013	0.50	0.013 U	0.013 U
TCLP Volatile Organics	Carbon Tetrachloride	mg/L	0.013	0.50	0.013 U	0.013 U
TCLP Volatile Organics	Chlorobenzene	mg/L	0.013	100.00	0.013 U	0.013 U
TCLP Volatile Organics	Chloroform	mg/L	0.025	6.00	0.013 U	0.013 U
TCLP Volatile Organics	Tetrachloroethylene	mg/L	0.025	0.70	0.025 U	0.025 U
TCLP Volatile Organics	Trichloroethene	mg/L	0.013	0.50	0.013 U	0.013 U
TCLP Volatile Organics	Vinyl Chloride	mg/L	0.013	0.20	0.013 U	0.013 U
PCBs	Aroclor – 1221	µg/Kg	1.1	-	NA	29 U
PCBs	Aroclor – 1016	µg/Kg	1.1	-	NA	29 U
PCBs	Aroclor – 1232	µg/Kg	2.2	-	NA	29 U
PCBs	Aroclor – 1242	µg/Kg	1.1	-	NA	29 U
PCBs	Aroclor – 1248	µg/Kg	1.1	-	NA	29 U
PCBs	Aroclor – 1254	µg/Kg	1.1	-	NA	29 U
PCBs	Aroclor – 1260	µg/Kg	1.1	-	NA	29 U
Flashpoint	Flashpoint	°F	1.0	-	>180 °F	>180 °F
Reactivity	Cyanide, total	mg/Kg	0.010	-	0.03 U	0.038
Reactivity	Sulfide	mg/Kg	2.5	-	32 U	89
Corrosivity	Corrosivity	SU	0.100	-	7.22	8.20

Notes:
J – Estimated value
U – Undetected above laboratory reporting limit
mg/L – milligrams per liter
µg/Kg – mircograms per kilogram
SU – Standard units for pH
°F – degrees Fahrenheit

John R. Kasich, Governor
Mary Taylor, Lt. Governor
Scott J. Nally, Director

June 5, 2013

RE: RAVENNA ARMY AMMUNITION PLANT
PORTAGE/TRUMBULL COUNTIES
CC SITES IDW
OHIO EPA ID # 67000859155

CERTIFIED LETTER 70101060000000898534

Mr. Mark Patterson
Environmental Program Manager
Ravenna Army Ammunition Plant
Building 1037
8451 State Route 5
Ravenna, OH 44266-9297

Dear Mr. Patterson:

The Ohio Environmental Protection Agency (Ohio EPA), Northeast District Office (NEDO), Division of Environmental Response and Revitalization (DERR) has received and reviewed the document entitled: *"Investigation-Derived Waste Letter Report, 2011 Performance–Based Acquisition, Environmental Investigation and Remediation, 14 Compliance Restoration Sites, Ravenna Army Ammunition Plant, Ravenna, Ohio."* This letter report, dated May 22, 2013 and received at Ohio EPA on June 04, 2013, was prepared for the U.S. Army Corps of Engineers (USACE) – Louisville District by ECC under Contract Number W912QR-04-D-0039.

Based upon the presented results, the Ohio EPA is in agreement that the liquid Investigation Derived Wastes (IDW) should be disposed of at a permitted wastewater treatment facility and the soils at a permitted solid waste facility. As generator of the material, it is the responsibility to ensure that all wastes are disposed of in accordance with applicable state, federal, and local rules, laws and regulations; and that analytical testing is also conducted in accordance with the accepting facility's requirements.

If you have any questions concerning this correspondence, please do not hesitate to contact me at 330-963-1221.

Sincerely,

Eileen T. Mohr
Project Manager
Division of Environmental Response and Revitalization

EM:ds

pc: Katie Tait, OHARNG
Ann Wood, ARNGD
Cullen Grasty, USACE Louisville

ec: Justin Burke, Ohio EPA, DERR, CO
Nancy Zikmanis, Ohio EPA, DERR, NEDO
Todd Fisher, Ohio EPA, DERR, NEDO
Ed D'Amato, Ohio EPA, DERR, NEDO

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Ohio EPA
Northeast District Office
2110 E. Aurora Road
Twinsburg, Ohio 44087

SENDER: *COMPLETE THIS SECTION*

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

MR. MARK PATTERSON
ENVIRONMENTAL PROGRAM MANAGER
RVAAP BLDG 1037
8451 STATE ROUTE 5
RAVENNA, OH 44266-9297

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Gail Harris ☒ Agent ☐ Addressee

B. Received by (*Printed Name*) Gail Harris
C. Date of Delivery 6-7-2013

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☒ No

3. Service Type
☒ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (*Extra Fee*) ☐ Yes

2. Article Number (*Transfer from service label*) 7010106000000898534 EM:ds 6 5 13

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

COPY

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number OH5 210 020 736	2. Page 1 of 1	3. Emergency Response Phone 330-677-0785	4. Waste Tracking Number 08513

GENERATOR

5. Generator's Name and Mailing Address
Ravenna Army Ammunition Plant
8451 State Route 5
Ravenna Ohio 44266
Generator's Phone: 330-358-2920

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

6. Transporter 1 Company Name: Emerald Environmental Services, Inc
U.S. EPA ID Number: OHR 000 102 053

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Vexor Technology
955 West Smith Road
Medina, Ohio 44256
Facility's Phone: 330-721-9773
U.S. EPA ID Number: OHD 077 771 895

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non DOT Regulated, Non Hazardous Material (OIL CUTTINGS)	4	DM	1400	P	
2.	Non DOT Regulated, Non Hazardous Material (DRILL WATER) (LEON FLUID)	1	DM	590	G	
3.						
4.						

13. Special Handling Instructions and Additional Information
9.1.) Approval # VEX 25094
9.2.) Approval # VEX 25095
Job Number: 13-0081EES

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
Generator's/Offeror's Printed/Typed Name: Mark Patterson
Signature: Mark Patterson
Month 8 Day 15 Year 13

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Darrin Bowers
Signature: Darrin Bowers
Month 8 Day 15 Year 13
Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

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: Tim Brier
Signature: Tim Brier
Month 08 Day 15 Year 13

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33 Boston Post Rd West
Suite 420
Marlborough, MA 01752

Phone: 508.229.2270
Fax: 508.229.7737

15 June 2015

Mr. Eric Cheng, P.E.
Technical Manager
U.S. Army Corps of Engineers, Louisville District
600 Martin Luther King Jr. Place
Louisville, Kentucky 40202-0059

Reference: Contract No. W912QR-04-D-0039
Delivery Order No. 0004
Project No. 5161.004

Subject: Revised Investigation Derived Waste Disposal Letter Report
2011 Performance-Based Acquisition
Environmental Investigation and Remediation
14 Compliance Restoration Sites
Former Ravenna Army Ammunition Plant
Portage and Trumbull Counties, Ohio

Dear Mr. Cheng:

Investigation activities in accordance with the Site Inspection and Remedial Investigation Work Plan (October 2012) were conducted from 6 April 2015 through 13 May 2015. These activities resulted in the generation of Investigation-Derived Waste (IDW) consisting of soil cuttings from direct push borings and equipment decontamination fluids. The purpose of this letter report is to characterize and classify IDW for disposal and to propose methods for disposing of the IDW.

This letter report includes a summary of IDW generated, the origin of the IDW (Table 1), as well as proposed classification and recommendations for disposal of the IDW (Table 2). This letter report follows guidance established by the following:

1.) The Facility-Wide Sampling and Analysis Plan (SAIC 2011), and
2.) Final Site Inspection and Remedial Investigation (SI/RI) Work Plan (ECC 2012).

Two distinct IDW streams were sampled as part of the SI/RI Work Plan field activities. Each waste stream was composited and sampled per requirements outlined in Section 7.0 of the Facility-Wide Sampling and Analysis Plan (FWSAP) and SI/RI Work Plan. IDW streams generated are:

- One (1), 55-gallon drum containing equipment decontamination fluids (Liquinox, distilled water [DI], and 2% hydrochloroic acid[HCl]/10% nitric acid), sampled on 10 April 2015 and,
- One (1) 55-gallon drum containing soils from RI sampling activities conducted at CC RVAAP-69 Building 1048 Former Fire Station, CC RVAAP-79 Main Ore Storage Area, CC RVAAP-79 Area 8, CC RVAAP-79 Load Line 3, and CC RVAAP-79 Route 80 Tank Farm, sampled on 10 April 2015.

Per Section 7.0 of the Facility-Wide SAP, two composite samples were collected for Toxicity Characteristic Leaching Procedure (TCLP) parameters (summarized in

Corporate Office
1240 Bayshore Highway
Burlingame, CA 94010

Phone: (650) 347-1555
Fax: (650) 347-8789
www.ecc.net

Attachment 1), flashpoint, reactivity, and corrosivity and submitted for laboratory analysis to characterize the following waste streams for disposal:

- Liquid IDW (Decontamination Fluids)

The first sample (079SB-0384-0001-IDW) characterized one drum of decontamination (de-con) fluid containing 2% HCl/10% Nitric acid, DI water, and Liquinox. This sample was analyzed for full TCLP, flashpoint, reactivity, and corrosivity. Decontamination fluids were generated from the washing, rinsing, and decontamination procedures used for all non-dedicated sampling equipment.

- Solid IDW (Soil Cuttings)

The second sample (079SB-00383-0001-IDW) characterized one drum containing soil cuttings. Table 1 summarizes the IDW samples collected.

Table 1 – Summary of SI/RI IDW

Container Type and Size	Contents	Generation Dates	Sample ID
55- Gallon Closed Top Drum	De-con Fluids from sampling equipment decontamination	6 April 2015 through 13 May 2015	079SB-0384-0001-IDW
55- Gallon Open Top Drum	Soil Cuttings	6 April 2015 through 29 April 2015	079SB-0383-0001-IDW

Per Section 8.0 of the FWSAP, non-indigenous IDW is characterized for disposal on the basis of composite samples collected and submitted for laboratory analysis to characterize the waste stream for disposal. Upon receipt of analytical results from the laboratory, the analytical data was reviewed to determine if the waste was potentially hazardous. This review consisted of a comparison of the analytical results against the TCLP criteria presented in Table 8-1 and 8-2, Maximum Concentration of Contaminants for the Toxicity Characteristic (40 Code of Federal Regulation (CFR) 261.24), presented in the FWSAP. The results of this review are summarized below.

Liquid IDW (Decontamination Fluids)

One liquid composite sample (079SB-0384-0001-IDW) was collected on 10 April 2015. Attachment 2 presents the analytical laboratory data for TCLP, flashpoint, reactivity, and corrosivity analyses for IDW fluids generated during the 6 April through 13 May 2015 field activities. All analytical results were below regulatory levels as presented in Tables 8-1 and 8-2 in the FWSAP. It should be noted that although additional liquid IDW (de-con fluids) generated during the sampling events conducted at CC RVAAP-69 and CC RVAAP-79 on 28 April, 29 April, 12 May, and 13 May 2015 (at CC RVAAP-79 only) was added to the liquid IDW drum after the 10 April 2015 sampling date, the locations sampled were at the suspected horizontal and vertical extent of known site contaminants, and as such would have lower concentrations than previously sampled areas. Therefore, they would not increase the concentrations of contaminants of any liquid IDW analytes.

Solid IDW – Drill Cuttings

One solid composite sample (079SB-00383-0001-IDW) was collected on 10 April 2015. Attachment 3 presents the analytical laboratory data for TCLP, flashpoint, reactivity, and corrosivity analyses for IDW solids generated during the 6 April through 29 April 2015 field activities. All analytical results were below regulatory levels as presented in Tables 8-1 and 8-2 in the FWSAP. It should be noted that although additional solid IDW (drill cuttings) generated during the sampling events conducted at CC RVAAP-69 and CC RVAAP-79 on 28 April and 29 April 2015 was added to the solids IDW drum after the 10 April 2015 sampling date, the locations sampled were at the suspected horizontal and vertical extent of known site contaminants, and as such would have lower concentrations than previously sampled areas. Therefore, they would not increase the concentrations of contaminants of any solid IDW analytes.

A field quality control (QC) sample (trip blank) was included with the IDW samples. The sample (sample ID 079SB-0388-0001-TB) was analyzed for volatile organic compounds (VOCs). The results for this sample were all non-detect with the exception of acetone (detected at 6.5 ug/L (estimated) and methylene chloride (detected at 3.3 ug/L). Both of these compounds are common laboratory contaminants and as such are not believed to be associated with the IDW samples.

The laboratory analytical report is provided as Attachment 4.

Please note that the IDW addressed in this letter report has been characterized under provisions of the FWSAP using TCLP analysis and process knowledge. Unless the former Ravenna Army Ammunition Plant (RVAAP) has additional information that would result in the IDW meeting, or containing materials that meet, the definition of a listed hazardous waste as defined in 40 CFR Part 261 Subpart D, it is recommended that the IDW, as presently characterized, be disposed as summarized in Table 2.

Table 2 - Summary of Final Waste Classification and Recommended Options

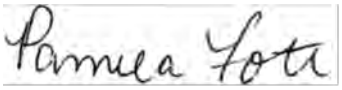
Medium	Sample ID	Waste Criterion	TCLP Criteria	Disposal Recommendation
Water	079SB-0384-0001-IDW	Inorganics, Organics	Regulatory Limits not Exceeded	Offsite Disposal as Non-Hazardous Waste - Permitted Wastewater Treatment Facility or Permitted Solid Waste Facility
Soils	079SB-0383-0001-IDW	Inorganics, Organics	Regulatory Limits not Exceeded	Offsite Disposal as Non-Hazardous Waste - Permitted Wastewater Treatment Facility or Permitted Solid Waste Facility

Since former RVAAP, under the Resource Conservation and Recovery Act (RCRA), is the generator of this material, Environmental Chemical Corporation (ECC) requests concurrence or direction in the waste classification prior to disposal to ensure materials are properly disposed.

Following your direction and immediate approval, ECC will proceed with appropriate waste disposal.

Should you have any questions or wish to discuss the proposed activities further, please do not hesitate to contact the undersigned at 508-274-3084.

Regards,



Pam Foti, Project Manager

Attachments: Attachment 1 – TCLP Parameters and Analytical Methods
Attachment 2 – IDW Sampling Analytical Results – Fluids
Attachment 3 – IDW Sampling Analytical Results - Solids
Attachment 4 – Laboratory Analytical Report

ATTACHMENTS

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Attachment 1 – TCLP Parameters and Analytical Methods

Parameter	Method
Volatile Organic Compounds	SW846 8260B
Semivolatile Organic Compounds	SW846 8270C
Pesticides	SW846 8081A
Herbicides	SW846 8151A
Metals	SW846 6010B
Mercury	SW846 7470A
Ignitability	SW846 1010
Reactivity	SW846 9012A/9034
Corrosivity	SW846 9045C

Notes: TCLP = Toxicity Characteristic Leaching Procedure

Attachment 2 – IDW Sampling Analytical Results – Fluids

Analysis Type	Chemical	Units	Limit of Detection (mg/L)	TCLP Criteria (mg/L)	Results	Above Regulatory Limit – Yes/No
					079SB-0384-0001-IDW (Fluids)	
TCLP Semi-Volatile Organics	1,4-Dichlorobenzene	mg/L	0.0020	7.50	0.0020 U	No
TCLP Semi-Volatile Organics	2,4,5-Trichlorophenol	mg/L	0.0020	400.00	0.0020 U	No
TCLP Semi-Volatile Organics	2,4,6-Trichlorophenol	mg/L	0.0020	2.00	0.0020 U	No
TCLP Semi-Volatile Organics	2,4-Dinitrotoluene	mg/L	0.0020	0.13	0.0020 U	No
TCLP Semi-Volatile Organics	Hexachlorobenzene	mg/L	0.00040	0.13	0.00040 U	No
TCLP Semi-Volatile Organics	Hexachlorobutadiene	mg/L	0.0020	0.50	0.0020 U	No
TCLP Semi-Volatile Organics	Hexachloroethane	mg/L	0.0020	3.00	0.0020 U	No
TCLP Semi-Volatile Organics	3 &4 Methylphenol	mg/L	0.0040	200	0.0040 U	No
TCLP Semi-Volatile Organics	2-Methylphenol	mg/L	0.0020	200	0.0020 U	No
TCLP Semi-Volatile Organics	Nitrobenzene	mg/L	0.00040	2.00	0.00040 U	No
TCLP Semi-Volatile Organics	Pentachlorophenol	mg/L	0.0040	100.00	0.0040 U	No
TCLP Semi-Volatile Organics	Pyidine	mg/L	0.0020	5.00	0.0020 U	No
TCLP Metals	Arsenic	mg/L	0.010	5.00	0.0074 J	No
TCLP Metals	Barium	mg/L	0.0050	100.00	0.045 J	No
TCLP Metals	Cadmium	mg/L	0.0010	1.00	0.00076 J	No
TCLP Metals	Chromium	mg/L	0.0040	5.00	0.0067 J	No
TCLP Metals	Lead	mg/L	0.0050	5.00	0.023 J	No
TCLP Metals	Mercury	mg/L	0.00020	0.20	0.00020 U	No
TCLP Metals	Selenium	mg/L	0.010	1.00	0.010 U	No
TCLP Metals	Silver	mg/L	0.0050	5.00	0.0050 U	No
TCLP Herbicides	2,4,5-TP (Silvex)	mg/L	0.00020	1.00	0.00020 U	No
TCLP Herbicides	2,4-D	mg/L	0.0040	10.00	0.0040 U	No
TCLP Pesticides	Chlordane	mg/L	0.0015	0.03	0.0015 U	No
TCLP Pesticides	Endrin	mg/L	0.00015	0.02	0.00015 U	No
TCLP Pesticides	Gamma-BHC (Lindane)	mg/L	0.00015	0.40	0.00015 U	No
TCLP Pesticides	Heptachlor	mg/L	0.00015	0.01	0.00015 U	No
TCLP Pesticides	Heptachlor Epoxide	mg/L	0.00015	0.01	0.00015 U	No
TCLP Pesticides	Methoxychlor	mg/L	0.00015	10.00	0.00015 U	No
TCLP Pesticides	Toxaphene	mg/L	0.0060	0.50	0.0060 U	No
TCLP Volatile Organics	1,1-Dichloroethene	mg/L	0.013	0.7	0.013 U	No
TCLP Volatile Organics	1,2-Dichloroethane	mg/L	0.013	0.50	0.013 U	No
TCLP Volatile Organics	2-Butanone	mg/L	0.025	200	0.025 U	No
TCLP Volatile Organics	Benzene	mg/L	0.013	0.50	0.013 U	No
TCLP Volatile Organics	Carbon Tetrachloride	mg/L	0.013	0.50	0.013 U	No
TCLP Volatile Organics	Chlorobenzene	mg/L	0.013	100.00	0.013 U	No
TCLP Volatile Organics	Chloroform	mg/L	0.013	6.00	0.013 U	No
TCLP Volatile Organics	Tetrachloroethylene	mg/L	0.025	0.70	0.025 U	No
TCLP Volatile Organics	Trichloroethene	mg/L	0.013	0.50	0.013 U	No
TCLP Volatile Organics	Vinyl Chloride	mg/L	0.013	0.20	0.013 U	No
Flashpoint	Flashpoint	F	1.0	-	>200 F	No
Reactivity	Cyanide, total	mg/L	0.0050	-	0.0050 U	No
Reactivity	Sulfide	mg/L	3.0	-	3.00 U	No
Corrosivity	Corrosivity	SU	0.100	-	7.22	No

Attachment 3 – IDW Sampling Analytical Results - Solids

Analysis Type	Chemical	Units	Limit of Detection (mg/L)	TCLP Criteria (mg/L)	Results	Above Regulatory Limit – Yes/No
					079SB-00383-0001-IDW (Solids)	
TCLP Semi-Volatile Organics	1,4-Dichlorobenzene	mg/L	0.00050	7.50	0.00050 U	No
TCLP Semi-Volatile Organics	2,4,5-Trichlorophenol	mg/L	0.00050	400.0	0.00050 U	No
TCLP Semi-Volatile Organics	2,4,6-Trichlorophenol	mg/L	0.00050	2.00	0.00050 U	No
TCLP Semi-Volatile Organics	2,4-Dinitrotoluene	mg/L	0.00050	0.13	0.00050 U	No
TCLP Semi-Volatile Organics	Hexachlorobenzene	mg/L	0.00010	0.13	0.00010 U	No
TCLP Semi-Volatile Organics	Hexachlorobutadiene	mg/L	0.00050	0.50	0.00050 U	No
TCLP Semi-Volatile Organics	Hexachloroethane	mg/L	0.00050	3.00	0.00050 U	No
TCLP Semi-Volatile Organics	3 &4 Methylphenol	mg/L	0.0010	200	0.0010 U	No
TCLP Semi-Volatile Organics	2-Methylphenol	mg/L	0.00050	200	0.00050 U	No
TCLP Semi-Volatile Organics	Nitrobenzene	mg/L	0.00010	2.00	0.00010 U	No
TCLP Semi-Volatile Organics	Pentachlorophenol	mg/L	0.0010	100.0	0.0010 U	No
TCLP Semi-Volatile Organics	Pyidine	mg/L	0.00050	5.00	0.0011 J	No
TCLP Metals	Arsenic	mg/L	0.040	5.00	0.013 J	No
TCLP Metals	Barium	mg/L	0.0050	100.0	0.38 J	No
TCLP Metals	Cadmium	mg/L	0.0010	1.00	0.0010 J	No
TCLP Metals	Chromium	mg/L	0.0040	5.00	0.0039 J	No
TCLP Metals	Lead	mg/L	0.0050	5.00	0.022 J	No
TCLP Metals	Mercury	mg/L	0.00020	0.20	0.00020 U	No
TCLP Metals	Selenium	mg/L	0.040	1.00	0.018 J	No
TCLP Metals	Silver	mg/L	0.0050	5.00	0.0027 U	No
TCLP Herbicides	2,4,5-TP (Silvex)	mg/L	0.00020	1.00	0.00020 U	No
TCLP Herbicides	2,4-D	mg/L	0.0040	10.00	0.0040 U	No
TCLP Pesticides	Chlordane	mg/L	0.0012	0.03	0.0012 U	No
TCLP Pesticides	Endrin	mg/L	0.00012	0.02	0.00012 U	No
TCLP Pesticides	Gamma-BHC (Lindane)	mg/L	0.00012	0.40	0.00012 U	No
TCLP Pesticides	Heptachlor	mg/L	0.00012	0.01	0.00012 U	No
TCLP Pesticides	Heptachlor Epoxide	mg/L	0.00012	0.01	0.00012 U	No
TCLP Pesticides	Methoxychlor	mg/L	0.00012	10.00	0.00012 U	No
TCLP Pesticides	Toxaphene	mg/L	0.0048	0.50	0.0048 U	No
TCLP Volatile Organics	1,1-Dichloroethene	mg/L	0.013	0.7	0.013 U	No
TCLP Volatile Organics	1,2-Dichloroethane	mg/L	0.013	0.50	0.013 U	No
TCLP Volatile Organics	2-Butanone	mg/L	0.025	200	0.025 U	No
TCLP Volatile Organics	Benzene	mg/L	0.013	0.50	0.013 U	No
TCLP Volatile Organics	Carbon Tetrachloride	mg/L	0.013	0.50	0.013 U	No
TCLP Volatile Organics	Chlorobenzene	mg/L	0.013	100.0	0.013 U	No
TCLP Volatile Organics	Chloroform	mg/L	0.013	6.00	0.013 U	No
TCLP Volatile Organics	Tetrachloroethylene	mg/L	0.025	0.70	0.025 U	No
TCLP Volatile Organics	Trichloroethene	mg/L	0.013	0.50	0.013 U	No
TCLP Volatile Organics	Vinyl Chloride	mg/L	0.013	0.20	0.013 U	No
Flashpoint	Flashpoint	F	1.0	-	>200 F	No
Reactivity	Cyanide, total	mg/kg	0.55	-	0.55 U	No
Reactivity	Sulfide	mg/kg	35	-	35 U	No
Corrosivity	Corrosivity	SU	0.100	-	6.26	No

Notes:
U – Not detected at concentration greater than the limit of detection
ug/kg – micrograms per kilogram
NA - Not Analyzed
J – Estimated Value
mg/L – milligrams per liter
mg/Kg – milligrams per kilogram
F – degrees Farienheight
SU – Standard unit for pH

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Attachment 4 – Laboratory Analytical Report

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Jeff Donovan

From: Tait, Kathryn S NFG NG OHARNG (US) <kathryn.s.tait.nfg@mail.mil>
Sent: Tuesday, June 16, 2015 1:28 PM
To: Pam Foti; Eric Cheng (eric.s.cheng@usace.army.mil)
Cc: Jeff Donovan; Sedlak, Kevin M CTR (US); Leeper, Mark S CIV (US); Catherine Guido
Subject: RE: IDW Disposal Letter Report - RVAAP - ECC Waste (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Pam:
This revised report is acceptable and can be considered the final report. This will need to be included in the applicable site-related reports so the Ohio EPA gets a chance to look at it. Go ahead and work the next steps in the waste process (waste profile and waste pickup). Thanks.

Katie Tait
Environmental Specialist 2
OHARNG
Camp Ravenna
1438 State Route 534 SW
Newton Falls OH 44444
(614)336-6136

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NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
OH5 210 020 736	1	800-851-8061	71415-1

5. Generator's Name and Mailing Address
Former Ravenna Army Ammunition Plant
C/O Camp Ravenna Attn: Kathryn Tait
1438 State Route 534 SW
Newton Falls, OH 44444
Generator's Phone: 614 336 6138

Generator's Site Address (if different than mailing address)
Former Ravenna Army Ammunition Plant
8451 State Route 5
Ravenna, OH 44266 Contact Kathryn Tait

6. Transporter 1 Company Name
Emerald Environmental Services, Inc
U.S. EPA ID Number: OHR 000 102 053

7. Transporter 2 Company Name
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Veolia Technology
955 West Main Road
Medina, Ohio 44256
330-721-4773
U.S. EPA ID Number: OHD 077 772 865
Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	Non DOT Regulated, Non Hazardous Material (Soil Cuttings) NE NO 12196117	1	DM	400	LBS K
2.	Non DOT Regulated, Non Hazardous Material (Decon Solution) 12196118	1	DM	200	LBS K
3.					
4.	WO# 102775				

13. Special Handling Instructions and Additional Information
9.1) Approval # VEX29433
9.2) Approval # VEX29433
Alternate Emergency Contact Jeff Donovan of ECC @ 306-509-1784

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/Offeror's Printed/Typed Name: Kathryn S Tait
Signature:
Month: 1 Day: 12 Year: 15

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Steve S Geary
Signature:
Month: 1 Day: 14 Year: 15

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

VEXOR Technology, Inc.
955 West Smith Road
Medina, Ohio 4425
Phone: 330-721-9773
FAX: 330-721-9438
EPA ID# OHD 077772895

MATERIAL CHARACTERIZATION

Approval#: VEX2943
Sample #:
Sales Rep:
Date Submitted:

Generator: Former Ravenna Army Ammunition Plant			Bill to Name: Emerald Environmental		
Site Address:8451 State Route 5			Site Address:1621 St. Clair Ave.		
City:Ravenna	State:OH	Zip:44266	City: Kent	State: OH	Zip:44240
Phone: (614)336-6136 Attn: Kathryn Tait	Fax:Generator mailing address: Camp Ravenna, 1438 State Route 534 SW, Newton Falls, OH 44444 Attn: Kathryn Tait		Phone: 330-677-0785	Fax:330-677-1567	
EPA ID#:OH5210020736	SIC Code:-		Business Contact:Chris Archacki		
Technical Contact:Jeff Donovan with ECC 508-509-1784			Title: Field Services Manager		
Title:Project Manager			Email:carchacki@emerald-environmental.com		
Email:JDonovan@ecc.net					

MATERIAL DESCRIPTION

Name and Description of Material: Soil Cuttings

Process Generating Material: Site Investigation — U.S. EPA Hazardous Waste: ☐Yes ☒No

Proper DOT Shipping Name: Non DOT Regulated, Non Hazardous Material

Method of Shipment: ☐ Bulk ☒Drum ☐Tote ☐Cubic Yd Box Other Explain:

Estimated Annual Volume: ____Cubic Yards ____Tons ____Gallons 20 Drums meta Container material (metal, plastic etc)

Frequency: ☐One Time Only ☐Daily ☐Weekly ☐Monthly ☐Yearly ☒Other Approx drum weight400 lbs

Special Handling Instructions: N/A

Preferred Disposal Method: ☒Landfill ☐Waste to Energy ☐Recycling ☐VEF ☐Other: ____

MATERIAL PROPERTIES AT 78°F

a) Physical State: ☒Solid ☐Semi-solid ☐Powder ☐Liquid ☐Phases

b) Reactivity: ☐Water reactive ☐Acid Reactive ☐Alkaline Reactive ☐Oxidizer ☐Autosetting ☒none

c) Flash Point, °F: ☐≤ 72 ☐>72-100 ☐ >100-140 ☐ >140-200 ☐>200 ☒ NA

d) S. G./Density e) pH: ☐≤ 2 ☐>2 – 6 ☐>6 – 9 ☐>9 – <12.5 ☐≥12.5 ☒ NA

f) Odor: ☒None ☐Mild ☐Strong Describe: g) Color

h) Total Organic Halogen (TOX) ☒ 0 ppm ☐>1000 ppm* If this material is considered a "USED OIL" and is to be managed as a USED OIL, please complete the "USED OIL" ADDENDUM and attach to this profile.

i) PCB Content: ☒0 ppm ☐1-49 ppm* ☐equal to or > 50 ppm *Supporting analysis and documentation required.

Constituent	Range % (wt-vol)	
	Min	Max
Soil	99	100
Water	.5	<1%

Constituent	Range % (wt-vol)	
	Min	Max
Sulfur		
Chlorine		
Bromine		
Fluorine		
Nitrogen		
Oxygen		
Carbon		
Ash		
Btu's		
Biomass		

Metal	**ppm**	**Metal**	**ppm**	**Metal**	**ppm**	**Metal**	**ppm**
Thallium	<RegLevel	Antimony	<RegLevel	Beryllium	<RegLevel	Cobalt	<RegLevel
Copper	<RegLevel	Nickel	<RegLevel	Vanadium	<RegLevel	Tin	<RegLevel
Zinc	<RegLevel	Iron	<RegLevel	Manganese	<RegLevel	Magnesium	<RegLevel
Molybdenum	<RegLevel	Palladium	<RegLevel				

MATERIAL CHARACTERIZATION

Approval#:_____

RCRA CONTAMINANTS ☒TCLP ☐TOTAL ☒NONE IN THIS SECTION

EPA #	NAME		REGULATORY LEVEL	ACTUAL		EPA#	NAME		REGULATORY LEVEL	ACTUAL
D004	Arsenic	☐	>5.0			D024	m-Cresol	☐	>200.0	
D005	Barium	☐	>100.0			D025	p-Cresol	☐	>200.0	
D006	Cadmium	☐	>1.0			D026	Cresol (total)	☐	>200.0	
D007	Chromium	☐	>5.0			D027	1,4-Dichlorobenzene	☐	>7.5	
D008	Lead	☐	>5.0			D028	1,2-Dichlorethane	☐	>0.5	
D009	Mercury	☐	>0.2			D029	1,2-Dichlorethylene	☐	>.13	
D010	Selenium	☐	>1.0			D030	2,4-Dinitrotoluene	☐	>0.008	
D011	Silver	☐	>5.0			D031	Heptachlor	☐	>0.13	
D012	Endrin	☐	>0.02			D032	Hexachlorobenzene	☐	>0.5	
D013	Lindane	☐	>0.4			D033	Hexachloro-1,3-butadiene	☐	>0.5	
D014	Methoxychlor	☐	>10.0			D034	Hexachloroethane	☐	>3.0	
D015	Toxaphene	☐	>0.05			D035	Methyl Ethyl Ketone	☐	>200.0	
D016	2,4-D	☐	>10.0			D036	Nitrobenzene	☐	>2.0	
D017	2,4,5-TP (Silvex)	☐	>1.0			D037	Petachlorophenol	☐	>100.0	
D018	Benzene	☐	>0.5			D038	Pyridine	☐	>100.0	
D019	Carbon Tetrchloride	☐	>0.5			D039	Tetrchloroethylene	☐	>0.7	
D020	Chlordane	☐	>0.03			D040	Trichloroethylene	☐	>0.5	
D021	Chlorobenzene	☐	>100.0			D041	2,4,5-Trichlorophenol	☐	>400.0	
D022	Chloroform	☐	>6.0			D042	2,4,6-Trichlorophenol	☐	>2.0	
D023	o-Cresol	☐	>200.0			D043	Vinyl Chloride	☐	>0.2	

GENERATOR CERTIFICATION

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true and accurate description of the material being offered for disposal.

Samples of this material submitted to VEXOR are representative of the material described in this profile. I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for treatment, processing or recycling or attempt to deliver for same any material that is classified as toxic waste, hazardous waste, medical or infectious waste or any other material that this facility is prohibited from accepting by law.

Authorized Representative Name (Printed): Kathryn S. Tait
Company: Ohio Army National Guard

Authorized Representative Signature: Kathryn S Tait

Title: Environmental Specialist 2 Date: 6/26/2015

For VEXOR Use Only
Reviewed by: _____ Date: 7/7/15 Second review: _____ Date: 7/7/15

VEXOR Technology, Inc.
955 West Smith Road
Medina, Ohio 4425
Phone: 330-721-9773
FAX: 330-721-9438
EPA ID# OHD 077772895

MATERIAL CHARACTERIZATION

Approval#: VEX29432
Sample #:
Sales Rep:
Date Submitted:

Generator: Former Ravenna Army Ammunition Plant			Bill to Name: Emerald Environmental		
Site Address:8451 State Route 5			Site Address:1621 St. Clair Ave.		
City:Ravenna	State:OH	Zip:44266	City: Kent	State: OH	Zip:44240
Phone: (614) 336-6136 Attn: Kathryn Tait	Fax:Generator mailing address: Camp Ravenna, 1438 State Route 534 SW, Newton Falls, OH 44444 Attn: Kathryn Tait		Phone: 330-677-0785	Fax:330-677-1567	
EPA ID#:OH5210020736	SIC Code:-		Business Contact:Chris Archacki		
Technical Contact:Jeff Donovan with ECC 508-509-1784			Title: Field Services Manager		
Title:Project Manager			Email:carchacki@emerald-environmental.com		
Email:JDonovan@ecc.net					

MATERIAL DESCRIPTION

Name and Description of Material: De-contamination Fluids

Process Generating Material: Sampling Equipment Decontamination U.S. EPA Hazardous Waste: ☐Yes ☒No

Proper DOT Shipping Name: Non DOT Regulated, Non Hazardous Material

Method of Shipment: ☐ Bulk ☒Drum ☐Tote ☐Cubic Yd Box Other Explain:

Estimated Annual Volume: ____Cubic Yards ____Tons ____Gallons 20 Drums meta Container material (metal, plastic etc)

Frequency: ☐One Time Only ☐Daily ☐Weekly ☐Monthly ☐Yearly ☒Other Approx drum weight200 lbs

Special Handling Instructions: N/A

Preferred Disposal Method: ☒Landfill ☐Waste to Energy ☐Recycling ☐VEF ☐Other: ____

MATERIAL PROPERTIES AT 78°F

a) Physical State: ☐Solid ☐Semi-solid ☐Powder ☒Liquid ☐Phases

b) Reactivity: ☐Water reactive ☐Acid Reactive ☐Alkaline Reactive ☐Oxidizer ☐Autosetting ☒none

c) Flash Point, °F: ☐≤ 72 ☐>72-100 ☐ >100-140 ☐ >140-200 ☒>200 ☐ NA

d) S. G./Density1.0 e) pH: ☐≤ 2 ☐>2 – 6 ☒>6 – 9 ☐>9 – <12.5 ☐≥12.5 ☐ NA

f) Odor: ☒None ☐Mild ☐Strong Describe: g) Color

h) Total Organic Halogen (TOX) ☒ 0 ppm ☐>1000 ppm* If this material is considered a "USED OIL" and is to be managed as a USED OIL, please complete the "USED OIL" ADDENDUM and attach to this profile.

i) PCB Content: ☒0 ppm ☐1-49 ppm* ☐equal to or > 50 ppm *Supporting analysis and documentation required.

Constituent	Range % (wt-vol)	
	Min	Max
Water	99	100
Sediment	1	<2%

Constituent	Range % (wt-vol)	
	Min	Max
Sulfur		
Chlorine		
Bromine		
Fluorine		
Nitrogen		
Oxygen		
Carbon		
Ash		
Btu's		
Biomass		

Metal	ppm	Metal	ppm	Metal	ppm	Metal	ppm
Thallium	<RegLevel	Antimony	<RegLevel	Beryllium	<RegLevel	Cobalt	<RegLevel
Copper	<RegLevel	Nickel	<RegLevel	Vanadium	<RegLevel	Tin	<RegLevel
Zinc	<RegLevel	Iron	<RegLevel	Manganese	<RegLevel	Magnesium	<RegLevel
Molybdenum	<RegLevel	Palladium	<RegLevel				

MATERIAL CHARACTERIZATION

Approval#:_____

RCRA CONTAMINANTS ☒TCLP ☐TOTAL ☒NONE IN THIS SECTION

EPA #	NAME		REGULATORY LEVEL	ACTUAL		EPA#	NAME		REGULATORY LEVEL	ACTUAL
D004	Arsenic	☐	>5.0			D024	m-Cresol	☐	>200.0	
D005	Barium	☐	>100.0			D025	p-Cresol	☐	>200.0	
D006	Cadmium	☐	>1.0			D026	Cresol (total)	☐	>200.0	
D007	Chromium	☐	>5.0			D027	1,4-Dichlorobenzene	☐	>7.5	
D008	Lead	☐	>5.0			D028	1,2-Dichlorethane	☐	>0.5	
D009	Mercury	☐	>0.2			D029	1,2-Dichlorethylene	☐	>.13	
D010	Selenium	☐	>1.0			D030	2,4-Dinitrotoluene	☐	>0.008	
D011	Silver	☐	>5.0			D031	Heptachlor	☐	>0.13	
D012	Endrin	☐	>0.02			D032	Hexachlorobenzene	☐	>0.5	
D013	Lindane	☐	>0.4			D033	Hexachloro-1,3-butadiene	☐	>0.5	
D014	Methoxychlor	☐	>10.0			D034	Hexachloroethane	☐	>3.0	
D015	Toxaphene	☐	>0.05			D035	Methyl Ethyl Ketone	☐	>200.0	
D016	2,4-D	☐	>10.0			D036	Nitrobenzene	☐	>2.0	
D017	2,4,5-TP (Silvex)	☐	>1.0			D037	Petachlorophenol	☐	>100.0	
D018	Benzene	☐	>0.5			D038	Pyridine	☐	>100.0	
D019	Carbon Tetrchloride	☐	>0.5			D039	Tetrchloroethylene	☐	>0.7	
D020	Chlordane	☐	>0.03			D040	Trichloroethylene	☐	>0.5	
D021	Chlorobenzene	☐	>100.0			D041	2,4,5-Trichlorophenol	☐	>400.0	
D022	Chloroform	☐	>6.0			D042	2,4,6-Trichlorophenol	☐	>2.0	
D023	o-Cresol	☐	>200.0			D043	Vinyl Chloride	☐	>0.2	

GENERATOR CERTIFICATION

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true and accurate description of the material being offered for disposal.

Samples of this material submitted to VEXOR are representative of the material described in this profile. I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for treatment, processing or recycling or attempt to deliver for same any material that is classified as toxic waste, hazardous waste, medical or infectious waste or any other material that this facility is prohibited from accepting by law.

Authorized Representative Name (Printed): Kathryn S Tait
Company: Ohio Army National Guard

Authorized Representative Signature: Kathryn S Tait

Title: Environmental Specialist 2 Date: 6/26/2015

For VEXOR Use Only
Reviewed by: Date: 7/7/15 Second review: Date: 7/7/15

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-49236-1
Client Project/Site: Ravenna Army Ammunition Plant

For:
Environmental Chemical Corp.
33 Boston Post Road West
Suite 420
Marlborough, Massachusetts 01752

Attn: Mr. Jackson Kiker

Authorized for release by:
4/30/2015 6:19:23 PM

Mark Loeb, Project Manager II
(330)966-9387
mark.loeb@testamericainc.com

LINKS

Review your project results through TotalAccess

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Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Undetected at the Limit of Detection.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
^	Instrument related QC is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Undetected at the Limit of Detection.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
M	Manual integrated compound.
^	Instrument related QC is outside acceptance limits.

GC Semi VOA

Qualifier	Qualifier Description
U	Undetected at the Limit of Detection.
Q	One or more quality control criteria failed.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
M	Manual integrated compound.
J	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
D	The reported value is from a dilution.
^	Instrument related QC is outside acceptance limits.

HPLC/IC

Qualifier	Qualifier Description
U	Undetected at the Limit of Detection.
J	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.

Metals

Qualifier	Qualifier Description
U	Undetected at the Limit of Detection.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
D	The reported value is from a dilution.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
U	Undetected at the Limit of Detection.
H	Sample was prepped or analyzed beyond the specified holding time
J	Estimated: The analyte was positively identified; the quantitation is an estimation

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 240-49236-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: Environmental Chemical Corp.

Project: Ravenna Army Ammunition Plant

Report Number: 240-49236-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

The 353.2 Nitrocellulose, 8330 Nitroguanidine and 8330B Explosives analysis were performed at the TestAmerica Sacramento Laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

TestAmerica utilizes USEPA approved methods and DOD QSM, where applicable, in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. A summary of QC data for these analyses is included at the back of the report.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

All parameters for which TestAmerica North Canton has certification were evaluated to the limit of detection (LOD) and include qualified results where applicable. Parameters not certified under QSM, if any, were evaluated to the detection limit (DL) and include qualified results where applicable.

The sample(s) that contain constituents flagged with U are undetected. The result associated with this flag is the limit of detection (LOD).

RECEIPT

The samples were received on 4/10/2015 2:21 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 3.5º C, 3.7º C, 4.1º C and 5.3º C.

TCLP VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples 079SB-0383-0001-IDW (240-49236-1) and 079SB-0384-0001-IDW (240-49236-2) were analyzed for TCLP volatile organic compounds (GCMS) in accordance with EPA SW-846 Methods 1311/8260 DoD. The samples were leached on 04/15/2015 and analyzed on 04/21/2015.

Job ID: 240-49236-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples 079SB-0385-0001-SW (240-49236-3), 079SB-0387-0001-RB (240-49236-5) and 079SB-0388-0001-TB (240-49236-6) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B DoD. The samples were analyzed on 04/14/2015.

Bromomethane and Chloroethane failed the recovery criteria high for MRL 240-176298/15. Bromomethane, Chloroethane, Chloromethane and Vinyl chloride failed the recovery criteria high for MRL 240-176298/5. Refer to the QC report for details.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with 176298. 079SB-0385-0001-SW (240-49236-3), 079SB-0387-0001-RB (240-49236-5) and 079SB-0388-0001-TB (240-49236-6)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TCLP SEMIVOLATILE ORGANIC COMPOUNDS (GCMS)

Samples 079SB-0383-0001-IDW (240-49236-1) and 079SB-0384-0001-IDW (240-49236-2) were analyzed for TCLP semivolatile organic compounds (GCMS) in accordance with EPA SW-846 Methods 1311/8270 DOD. The samples were leached on 04/15/2015, prepared on 04/16/2015 and analyzed on 04/24/2015.

The following sample was diluted due to the nature of the sample matrix: 079SB-0384-0001-IDW (240-49236-2). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SEMIVOLATILE ORGANIC COMPOUNDS (GCMS)

Sample 079SB-0385-0001-SW (240-49236-3) was analyzed for semivolatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8270C. The sample was prepared on 04/13/2015 and analyzed on 04/24/2015.

Surrogates are added during the extraction process prior to dilution. When the sample is diluted, surrogate recoveries are diluted out and no corrective action is required.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with 176086.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

NITROGUANIDINE (HPLC)

Sample 079SB-0385-0001-SW (240-49236-3) was analyzed for nitroguanidine (HPLC) in accordance with EPA SW-846 Method 8330_Ngu. The sample was prepared on 04/13/2015 and analyzed on 04/20/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TCLP CHLORINATED PESTICIDES

Samples 079SB-0383-0001-IDW (240-49236-1) and 079SB-0384-0001-IDW (240-49236-2) were analyzed for TCLP chlorinated pesticides in accordance with EPA SW-846 Methods 1311/8081 DOD. The samples were leached on 04/15/2015, prepared on 04/16/2015 and 04/22/2015 and analyzed on 04/22/2015 and 04/27/2015.

DCB Decachlorobiphenyl and Tetrachloro-m-xylene failed the surrogate recovery criteria low for 079SB-0384-0001-IDW (240-49236-2). DCB Decachlorobiphenyl and Tetrachloro-m-xylene failed the surrogate recovery criteria low for 079SB-0384-0001-IDWMS (240-49236-2MS). Refer to the QC report for details.

Both surrogates failed low. Re-extraction confirms matrix issue. Re-extracted data within hold time and reported. 079SB-0384-0001-IDW (240-49236-2) and (240-49236-F-2-I MS)

Job ID: 240-49236-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

Endrin, Heptachlor, Heptachlor epoxide and Methoxychlor failed the recovery criteria low for the MS of sample 079SB-0384-0001-IDWMS (240-49236-2) in batch 240-178086.

Methoxychlor was detected in method blank MB 240-177491/3-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

CHLORINATED PESTICIDES

Sample 079SB-0385-0001-SW (240-49236-3) was analyzed for chlorinated pesticides in accordance with EPA SW-846 Method 8081A DoD. The samples were prepared on 04/15/2015 and analyzed on 04/16/2015.

The continuing calibration verification (CCV) associated with batch 177258 recovered above the upper control limit for Multiple Analytes. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: 079SB-0383-0001-IDW (240-49236-1).

The continuing calibration verification (CCV) associated with batch 178086 recovered above the upper control limit for Heptachlor. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: 079SB-0384-0001-IDW (240-49236-2).

The DCB surrogate recovery for the following samples was outside acceptance limits (low biased) on the confirmation column : 079SB-0385-0001-SW (240-49236-3). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control. Re-extraction of the sample confirms low DCB recovery.

The continuing calibration verification (CCV) associated with batch 176694 recovered above the upper control limit for DDD. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: 079SB-0385-0001-SW (240-49236-3).

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with 176084.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with 176509.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

POLYCHLORINATED BIPHENYLS (PCBS)

Sample 079SB-0385-0001-SW (240-49236-3) was analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082 DoD. The sample was prepared on 04/13/2015 and analyzed on 04/14/2015.

Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are diluted out and no corrective action is required. All of the samples in this data set analyzed for PCBs were subjected to the sulfuric acid cleanup procedure before instrumental analysis, per EPA Method 3665A.

DCB Decachlorobiphenyl failed the surrogate recovery criteria low for 079SB-0385-0001-SW (240-49236-3). Refer to the QC report for details.

Surrogate DCB recovery for the following sample was outside control limits: 079SB-0385-0001-SW (240-49236-3). Re-extraction and re-analysis was performed with concurring results.The original analysis has been reported.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with 176083.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated

Job ID: 240-49236-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

with 176510.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TCLP CHLORINATED HERBICIDES

Samples 079SB-0383-0001-IDW (240-49236-1) and 079SB-0384-0001-IDW (240-49236-2) were analyzed for TCLP chlorinated herbicides in accordance with EPA SW-846 Methods 1311/8151A DoD. The samples were leached on 04/15/2015, prepared on 04/16/2015 and analyzed on 04/21/2015.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

NITROAROMATICS AND NITRAMINES (HPLC)

Sample 079SB-0385-0001-SW (240-49236-3) was analyzed for Nitroaromatics and Nitramines (HPLC) in accordance with EPA SW-846 Method 8330B. The sample was prepared on 04/13/2015 and analyzed on 04/15/2015 and 04/24/2015.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with 320-70962.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TCLP METALS (ICP)

Samples 079SB-0383-0001-IDW (240-49236-1) and 079SB-0384-0001-IDW (240-49236-2) were analyzed for TCLP metals (ICP) in accordance with EPA SW-846 Methods 1311/6010 DoD. The samples were leached on 04/15/2015, prepared on 04/16/2015 and analyzed on 04/17/2015.

ICB, CCB, and ICSA samples are evaluated using the lowest LOD and DL criteria in LIMS. Using this criteria, an individual element may occasionally be flagged as out of control. If the element has a higher LOD or DL, the data is evaluated to the higher limit and determined to be acceptable.

Arsenic, Barium, Chromium, Lead and Selenium were detected in method blank LB 240-176620/1-B at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Barium and Chromium were detected in method blank MB 240-176697/2-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Arsenic exceeded the RPD limit for the duplicate of sample 079SB-0383-0001-IDWDU (240-49236-1). Refer to the QC report for details.

Sample 079SB-0383-0001-IDW (240-49236-1)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

The following sample was diluted due to the nature of the sample matrix: 079SB-0383-0001-IDW (240-49236-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL RECOVERABLE METALS (ICPMS)

Samples 079SB-0385-0001-SW (240-49236-3) and 079SB-0386-0001-RB (240-49236-4) were analyzed for total recoverable metals (ICPMS) in accordance with EPA SW-846 Method 6020 DoD. The samples were prepared on 04/13/2015 and analyzed on 04/14/2015, 04/15/2015 and 04/20/2015.

ICB, CCB, and ICSA samples are evaluated using the lowest LOD and DL criteria in LIMS. Using this criteria, an individual element may occasionally be flagged as out of control. If the element has a higher LOD or DL, the data is evaluated to the higher limit and determined to be acceptable.

Several analytes were detected in method blank MB 240-176157/1-A at levels that were above the method detection limit but below the

Job ID: 240-49236-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Antimony, Cadmium, Cobalt, Lead and Thallium exceeded the RPD limit for the duplicate of sample 079SB-0385-0001-SWDU (240-49236-3). Refer to the QC report for details.

Sample 079SB-0385-0001-SW (240-49236-3)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TCLP MERCURY
Samples 079SB-0383-0001-IDW (240-49236-1) and 079SB-0384-0001-IDW (240-49236-2) were analyzed for TCLP Mercury in accordance with EPA SW-846 Methods 1311/7470 DoD. The samples were leached on 04/15/2015, prepared on 04/16/2015 and analyzed on 04/17/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL MERCURY
Samples 079SB-0385-0001-SW (240-49236-3) and 079SB-0386-0001-RB (240-49236-4) were analyzed for total mercury in accordance with EPA SW-846 Method 7470A. The samples were prepared on 04/13/2015 and analyzed on 04/14/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

FLASHPOINT
Sample 079SB-0383-0001-IDW (240-49236-1) was analyzed for flashpoint in accordance with EPA SW-846 Method 1010. The sample was analyzed on 04/15/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

FLASHPOINT
Sample 079SB-0384-0001-IDW (240-49236-2) was analyzed for flashpoint in accordance with EPA SW-846 Method 1010. The sample was analyzed on 04/15/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

NITROCELLULOSE
Sample 079SB-0385-0001-SW (240-49236-3) was analyzed for Nitrocellulose in accordance with EPA Method 353.2. The sample was prepared and analyzed on 04/21/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL CYANIDE
Sample 079SB-0383-0001-IDW (240-49236-1) was analyzed for total cyanide in accordance with EPA SW-846 Method 9012A DoD. The sample was prepared and analyzed on 04/13/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL CYANIDE
Sample 079SB-0384-0001-IDW (240-49236-2) was analyzed for total cyanide in accordance with EPA SW-846 Method 9012A DoD. The sample was prepared and analyzed on 04/23/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SULFIDE
Sample 079SB-0383-0001-IDW (240-49236-1) was analyzed for sulfide in accordance with EPA SW-846 Method 9034. The sample was

Job ID: 240-49236-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

prepared and analyzed on 04/14/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SULFIDE
Sample 079SB-0384-0001-IDW (240-49236-2) was analyzed for sulfide in accordance with EPA SW-846 Method 9034. The sample was prepared and analyzed on 04/14/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PH
Sample 079SB-0384-0001-IDW (240-49236-2) was analyzed for pH in accordance with EPA SW-846 Method 9040C. The sample was analyzed on 04/13/2015.

The following sample was received with less than 2 days remaining on the holding time or less than one shift (8 hours) remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: 079SB-0384-0001-IDW (240-49236-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PH
Sample 079SB-0383-0001-IDW (240-49236-1) was analyzed for pH in accordance with EPA SW-846 Method 9045C. The sample was analyzed on 04/13/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PERCENT SOLIDS
Sample 079SB-0383-0001-IDW (240-49236-1) was analyzed for percent solids in accordance with EPA Method 160.3 MOD. The sample was analyzed on 04/10/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Method Summary

Client: Environmental Chemical Corp.
Project/Site: Ravenna Army Ammunition Plant

TestAmerica Job ID: 240-49236-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CAN
8081A	Organochlorine Pesticides (GC)	SW846	TAL CAN
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN
8151A	Herbicides (GC)	SW846	TAL CAN
8330 Modified	Nitroguanidine (HPLC)	SW846	TAL SAC
8330B	Nitroaromatics and Nitramines (HPLC)	SW846	TAL SAC
6010B	Metals (ICP)	SW846	TAL CAN
6020	Metals (ICP/MS)	SW846	TAL CAN
7470A	Mercury (CVAA)	SW846	TAL CAN
1010	Ignitability, Pensky-Martens Closed-Cup Method	SW846	TAL CAN
9012A	Cyanide, Total and/or Amenable	SW846	TAL CAN
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	TAL CAN
9040C	pH	SW846	TAL CAN
9045C	pH	SW846	TAL CAN
Moisture	Percent Moisture	EPA	TAL CAN
WS-WC-0050	Nitrocellulose	TAL-SAC	TAL SAC

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-SAC = TestAmerica Laboratories, West Sacramento, Facility Standard Operating Procedure.

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: Environmental Chemical Corp.
Project/Site: Ravenna Army Ammunition Plant

TestAmerica Job ID: 240-49236-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-49236-1	079SB-0383-0001-IDW	Solid	04/10/15 08:00	04/10/15 14:21
240-49236-2	079SB-0384-0001-IDW	Water	04/10/15 08:30	04/10/15 14:21
240-49236-3	079SB-0385-0001-SW	Water	04/10/15 08:45	04/10/15 14:21
240-49236-4	079SB-0386-0001-RB	Water	04/10/15 08:50	04/10/15 14:21
240-49236-5	079SB-0387-0001-RB	Water	04/10/15 09:00	04/10/15 14:21
240-49236-6	079SB-0388-0001-TB	Water	04/10/15 07:30	04/10/15 14:21

Detection Summary

Client: Environmental Chemical Corp.
Project/Site: Ravenna Army Ammunition Plant

TestAmerica Job ID: 240-49236-1

Client Sample ID: 079SB-0383-0001-IDW — Lab Sample ID: 240-49236-1

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Pyridine	0.0011	J M	0.020	0.00035	mg/L	1		8270C	TCLP
Silver	0.0027	J	0.50	0.00092	mg/L	1		6010B	TCLP
Arsenic	0.013	J D	2.0	0.012	mg/L	4		6010B	TCLP
Barium	0.38	J	10	0.0010	mg/L	1		6010B	TCLP
Cadmium	0.0010	J	0.10	0.00014	mg/L	1		6010B	TCLP
Chromium	0.0039	J	0.50	0.00055	mg/L	1		6010B	TCLP
Lead	0.022	J	0.50	0.0019	mg/L	1		6010B	TCLP
Selenium	0.018	J D	1.0	0.016	mg/L	4		6010B	TCLP
Flashpoint	>200		1.00	1.00	Degrees F	1		1010	Total/NA
Corrosivity	6.26		0.100	0.100	SU	1		9045C	Total/NA

Client Sample ID: 079SB-0384-0001-IDW — Lab Sample ID: 240-49236-2

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0074	J	0.50	0.0029	mg/L	1		6010B	TCLP
Barium	0.045	J	10	0.0010	mg/L	1		6010B	TCLP
Cadmium	0.00076	J	0.10	0.00014	mg/L	1		6010B	TCLP
Chromium	0.0067	J	0.50	0.00055	mg/L	1		6010B	TCLP
Lead	0.023	J	0.50	0.0019	mg/L	1		6010B	TCLP
Flashpoint	>200		1.00	1.00	Degrees F	1		1010	Total/NA
Corrosivity	7.22	H	0.100	0.100	SU	1		9040C	Total/NA

Client Sample ID: 079SB-0385-0001-SW — Lab Sample ID: 240-49236-3

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.9	J	10	0.94	ug/L	1		8260B	Total/NA
Antimony	0.43	J	2.0	0.16	ug/L	1		6020	Total Recoverable
Arsenic	0.93	J	5.0	0.18	ug/L	1		6020	Total Recoverable
Barium	18		5.0	1.1	ug/L	1		6020	Total Recoverable
Beryllium	0.27	J	1.0	0.053	ug/L	1		6020	Total Recoverable
Cadmium	0.38	J	2.0	0.061	ug/L	1		6020	Total Recoverable
Calcium	18000		2000	240	ug/L	1		6020	Total Recoverable
Chromium	1.3	J	6.0	0.20	ug/L	1		6020	Total Recoverable
Cobalt	0.28	J	1.0	0.021	ug/L	1		6020	Total Recoverable
Copper	1.1	J	4.0	0.75	ug/L	1		6020	Total Recoverable
Iron	30	J	150	16	ug/L	1		6020	Total Recoverable
Lead	0.18	J	1.0	0.11	ug/L	1		6020	Total Recoverable
Magnesium	31000	D	5000	240	ug/L	5		6020	Total Recoverable
Potassium	2700		1000	30	ug/L	1		6020	Total Recoverable
Selenium	0.62	J	5.0	0.25	ug/L	1		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: 079SB-0385-0001-SW (Continued) — Lab Sample ID: 240-49236-3

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Sodium	43000		1000	68	ug/L	1		6020	Total Recoverable
Thallium	0.22	J	2.0	0.074	ug/L	1		6020	Total Recoverable
Vanadium	0.35	J	5.0	0.23	ug/L	1		6020	Total Recoverable

Client Sample ID: 079SB-0386-0001-RB — Lab Sample ID: 240-49236-4

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	53	J	60	9.0	ug/L	1		6020	Total Recoverable
Antimony	0.66	J	2.0	0.16	ug/L	1		6020	Total Recoverable
Arsenic	0.38	J	5.0	0.18	ug/L	1		6020	Total Recoverable
Beryllium	0.16	J	1.0	0.053	ug/L	1		6020	Total Recoverable
Cadmium	0.079	J	2.0	0.061	ug/L	1		6020	Total Recoverable
Chromium	2.0	J	6.0	0.20	ug/L	1		6020	Total Recoverable
Cobalt	0.13	J	1.0	0.021	ug/L	1		6020	Total Recoverable
Iron	57	J	150	16	ug/L	1		6020	Total Recoverable
Manganese	5.8	J	10	1.1	ug/L	1		6020	Total Recoverable
Nickel	2.8	J	5.0	0.23	ug/L	1		6020	Total Recoverable
Sodium	840	J	1000	68	ug/L	1		6020	Total Recoverable
Thallium	0.11	J	2.0	0.074	ug/L	1		6020	Total Recoverable
Vanadium	0.26	J	5.0	0.23	ug/L	1		6020	Total Recoverable

Client Sample ID: 079SB-0387-0001-RB — Lab Sample ID: 240-49236-5

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.1	J	10	0.94	ug/L	1		8260B	Total/NA

Client Sample ID: 079SB-0388-0001-TB — Lab Sample ID: 240-49236-6

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6.5	J	10	0.94	ug/L	1		8260B	Total/NA
Methylene Chloride	3.3		1.0	0.33	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 079SB-0383-0001-IDW
Date Collected: 04/10/15 08:00
Date Received: 04/10/15 14:21

Lab Sample ID: 240-49236-1
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.013	U	0.025	0.0095	mg/L			04/21/15 19:11	1
1,2-Dichloroethane	0.013	U	0.025	0.011	mg/L			04/21/15 19:11	1
2-Butanone (MEK)	0.025	U	0.25	0.029	mg/L			04/21/15 19:11	1
Benzene	0.013	U	0.025	0.0065	mg/L			04/21/15 19:11	1
Carbon tetrachloride	0.013	U	0.025	0.0065	mg/L			04/21/15 19:11	1
Chlorobenzene	0.013	U	0.025	0.0075	mg/L			04/21/15 19:11	1
Chloroform	0.013	U	0.025	0.0080	mg/L			04/21/15 19:11	1
Tetrachloroethene	0.025	U	0.025	0.015	mg/L			04/21/15 19:11	1
Trichloroethene	0.013	U	0.025	0.0085	mg/L			04/21/15 19:11	1
Vinyl chloride	0.013	U	0.025	0.011	mg/L			04/21/15 19:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*85*		*80 - 120*		*04/21/15 19:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*80 - 121*		*04/21/15 19:11*	*1*
4-Bromofluorobenzene (Surr)	*77*		*70 - 124*		*04/21/15 19:11*	*1*
Dibromofluoromethane (Surr)	*90*		*84 - 128*		*04/21/15 19:11*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.00050	U	0.0040	0.00034	mg/L		04/16/15 08:13	04/24/15 12:18	1
2,4,5-Trichlorophenol	0.00050	U	0.020	0.00030	mg/L		04/16/15 08:13	04/24/15 12:18	1
2,4,6-Trichlorophenol	0.00050	U	0.020	0.00024	mg/L		04/16/15 08:13	04/24/15 12:18	1
2,4-Dinitrotoluene	0.00050	U	0.020	0.00025	mg/L		04/16/15 08:13	04/24/15 12:18	1
Hexachlorobenzene	0.00010	U	0.020	0.000085	mg/L		04/16/15 08:13	04/24/15 12:18	1
Hexachlorobutadiene	0.00050	U	0.020	0.00027	mg/L		04/16/15 08:13	04/24/15 12:18	1
Hexachloroethane	0.00050	U	0.020	0.00019	mg/L		04/16/15 08:13	04/24/15 12:18	1
3 & 4 Methylphenol	0.0010	U	0.040	0.00080	mg/L		04/16/15 08:13	04/24/15 12:18	1
2-Methylphenol	0.00050	U	0.0040	0.00017	mg/L		04/16/15 08:13	04/24/15 12:18	1
Nitrobenzene	0.00010	U	0.0040	0.000040	mg/L		04/16/15 08:13	04/24/15 12:18	1
Pentachlorophenol	0.0010	U	0.040	0.00027	mg/L		04/16/15 08:13	04/24/15 12:18	1
Pyridine	**0.0011**	**J M**	0.020	0.00035	mg/L		04/16/15 08:13	04/24/15 12:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*81*		*22 - 110*	*04/16/15 08:13*	*04/24/15 12:18*	*1*
2-Fluorophenol (Surr)	*60*		*10 - 110*	*04/16/15 08:13*	*04/24/15 12:18*	*1*
Nitrobenzene-d5 (Surr)	*78*		*29 - 111*	*04/16/15 08:13*	*04/24/15 12:18*	*1*
Terphenyl-d14 (Surr)	*85*		*40 - 119*	*04/16/15 08:13*	*04/24/15 12:18*	*1*
2,4,6-Tribromophenol (Surr)	*84*		*17 - 117*	*04/16/15 08:13*	*04/24/15 12:18*	*1*
Phenol-d5 (Surr)	*74*		*10 - 110*	*04/16/15 08:13*	*04/24/15 12:18*	*1*

Method: 8081A - Organochlorine Pesticides (GC) - TCLP

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	0.0012	U	0.030	0.00014	mg/L		04/16/15 08:22	04/22/15 04:55	1
Endrin	0.00012	U Q	0.010	0.000013	mg/L		04/16/15 08:22	04/22/15 04:55	1
gamma-BHC (Lindane)	0.00012	U Q	0.010	0.000013	mg/L		04/16/15 08:22	04/22/15 04:55	1
Heptachlor	0.00012	U Q	0.010	0.000014	mg/L		04/16/15 08:22	04/22/15 04:55	1
Heptachlor epoxide	0.00012	U Q	0.010	0.000015	mg/L		04/16/15 08:22	04/22/15 04:55	1
Methoxychlor	0.00012	U Q	0.030	0.000013	mg/L		04/16/15 08:22	04/22/15 04:55	1
Toxaphene	0.0048	U	0.50	0.00020	mg/L		04/16/15 08:22	04/22/15 04:55	1

Client Sample ID: 079SB-0383-0001-IDW
Date Collected: 04/10/15 08:00
Date Received: 04/10/15 14:21

Lab Sample ID: 240-49236-1
Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*92*	*Q*	*44 - 144*	*04/16/15 08:22*	*04/22/15 04:55*	*1*
DCB Decachlorobiphenyl	*93*	*Q*	*44 - 144*	*04/16/15 08:22*	*04/22/15 04:55*	*1*
Tetrachloro-m-xylene	*90*	*Q*	*44 - 127*	*04/16/15 08:22*	*04/22/15 04:55*	*1*
Tetrachloro-m-xylene	*92*	*Q*	*44 - 127*	*04/16/15 08:22*	*04/22/15 04:55*	*1*

Method: 8151A - Herbicides (GC) - TCLP

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	0.0040	U	0.50	0.0019	mg/L		04/16/15 08:24	04/21/15 20:53	1
Silvex (2,4,5-TP)	0.00020	U	0.10	0.00027	mg/L		04/16/15 08:24	04/21/15 20:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*91*	*Q*	*37 - 116*	*04/16/15 08:24*	*04/21/15 20:53*	*1*
2,4-Dichlorophenylacetic acid	*82*	*Q*	*37 - 116*	*04/16/15 08:24*	*04/21/15 20:53*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	**0.0027**	**J**	0.50	0.00092	mg/L		04/16/15 09:57	04/17/15 08:35	1
Arsenic	**0.013**	**J D**	2.0	0.012	mg/L		04/16/15 09:57	04/17/15 09:10	4
Barium	**0.38**	**J**	10	0.0010	mg/L		04/16/15 09:57	04/17/15 08:35	1
Cadmium	**0.0010**	**J**	0.10	0.00014	mg/L		04/16/15 09:57	04/17/15 08:35	1
Chromium	**0.0039**	**J**	0.50	0.00055	mg/L		04/16/15 09:57	04/17/15 08:35	1
Lead	**0.022**	**J**	0.50	0.0019	mg/L		04/16/15 09:57	04/17/15 08:35	1
Selenium	**0.018**	**J D**	1.0	0.016	mg/L		04/16/15 09:57	04/17/15 09:10	4

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	0.00020	U	0.0020	0.000090	mg/L		04/16/15 14:00	04/17/15 10:44	1

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>200**		1.00	1.00	Degrees F			04/15/15 09:50	1
Cyanide, Total	0.55	U	0.55	0.33	mg/Kg	☼	04/13/15 09:56	04/13/15 14:29	1
Sulfide	35	U	36	26	mg/Kg	☼	04/14/15 08:03	04/14/15 13:02	1
Corrosivity	**6.26**		0.100	0.100	SU			04/13/15 12:45	1
Percent Solids	**84**		0.10	0.10	%			04/10/15 18:17	1
Percent Moisture	**16**		0.10	0.10	%			04/10/15 18:17	1

Client Sample ID: 079SB-0384-0001-IDW
Date Collected: 04/10/15 08:30
Date Received: 04/10/15 14:21

Lab Sample ID: 240-49236-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.013	U	0.025	0.0095	mg/L			04/21/15 19:36	1
1,2-Dichloroethane	0.013	U	0.025	0.011	mg/L			04/21/15 19:36	1
2-Butanone (MEK)	0.025	U	0.25	0.029	mg/L			04/21/15 19:36	1
Benzene	0.013	U	0.025	0.0065	mg/L			04/21/15 19:36	1
Carbon tetrachloride	0.013	U	0.025	0.0065	mg/L			04/21/15 19:36	1
Chlorobenzene	0.013	U	0.025	0.0075	mg/L			04/21/15 19:36	1
Chloroform	0.013	U	0.025	0.0080	mg/L			04/21/15 19:36	1
Tetrachloroethene	0.025	U	0.025	0.015	mg/L			04/21/15 19:36	1
Trichloroethene	0.013	U	0.025	0.0085	mg/L			04/21/15 19:36	1
Vinyl chloride	0.013	U	0.025	0.011	mg/L			04/21/15 19:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*04/21/15 19:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*80 - 121*		*04/21/15 19:36*	*1*
4-Bromofluorobenzene (Surr)	*85*		*70 - 124*		*04/21/15 19:36*	*1*
Dibromofluoromethane (Surr)	*96*		*84 - 128*		*04/21/15 19:36*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.0020	U	0.016	0.0014	mg/L		04/16/15 08:13	04/24/15 12:43	4
2,4,5-Trichlorophenol	0.0020	U	0.080	0.0012	mg/L		04/16/15 08:13	04/24/15 12:43	4
2,4,6-Trichlorophenol	0.0020	U	0.080	0.00096	mg/L		04/16/15 08:13	04/24/15 12:43	4
2,4-Dinitrotoluene	0.0020	U	0.080	0.0010	mg/L		04/16/15 08:13	04/24/15 12:43	4
Hexachlorobenzene	0.00040	U	0.080	0.00034	mg/L		04/16/15 08:13	04/24/15 12:43	4
Hexachlorobutadiene	0.0020	U	0.080	0.0011	mg/L		04/16/15 08:13	04/24/15 12:43	4
Hexachloroethane	0.0020	U	0.080	0.00076	mg/L		04/16/15 08:13	04/24/15 12:43	4
3 & 4 Methylphenol	0.0040	U	0.16	0.0032	mg/L		04/16/15 08:13	04/24/15 12:43	4
2-Methylphenol	0.0020	U	0.016	0.00068	mg/L		04/16/15 08:13	04/24/15 12:43	4
Nitrobenzene	0.00040	U	0.016	0.00016	mg/L		04/16/15 08:13	04/24/15 12:43	4
Pentachlorophenol	0.0040	U	0.16	0.0011	mg/L		04/16/15 08:13	04/24/15 12:43	4
Pyridine	0.0020	U	0.080	0.0014	mg/L		04/16/15 08:13	04/24/15 12:43	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*85*		*22 - 110*	*04/16/15 08:13*	*04/24/15 12:43*	*4*
2-Fluorophenol (Surr)	*19*		*10 - 110*	*04/16/15 08:13*	*04/24/15 12:43*	*4*
Nitrobenzene-d5 (Surr)	*72*		*29 - 111*	*04/16/15 08:13*	*04/24/15 12:43*	*4*
Terphenyl-d14 (Surr)	*80*		*40 - 119*	*04/16/15 08:13*	*04/24/15 12:43*	*4*
2,4,6-Tribromophenol (Surr)	*96*		*17 - 117*	*04/16/15 08:13*	*04/24/15 12:43*	*4*
Phenol-d5 (Surr)	*68*		*10 - 110*	*04/16/15 08:13*	*04/24/15 12:43*	*4*

Method: 8081A - Organochlorine Pesticides (GC) - TCLP - RE

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	0.0015	U Q	0.038	0.00018	mg/L		04/22/15 15:15	04/27/15 15:27	1
Endrin	0.00015	U Q J	0.013	0.000016	mg/L		04/22/15 15:15	04/27/15 15:27	1
gamma-BHC (Lindane)	0.00015	U Q	0.013	0.000016	mg/L		04/22/15 15:15	04/27/15 15:27	1
Heptachlor	0.00015	U Q J	0.013	0.000018	mg/L		04/22/15 15:15	04/27/15 15:27	1
Heptachlor epoxide	0.00015	U Q J	0.013	0.000019	mg/L		04/22/15 15:15	04/27/15 15:27	1
Methoxychlor	0.00015	U Q J	0.038	0.000016	mg/L		04/22/15 15:15	04/27/15 15:27	1
Toxaphene	0.0060	U Q	0.63	0.00024	mg/L		04/22/15 15:15	04/27/15 15:27	1

Client Sample ID: 079SB-0384-0001-IDW
Date Collected: 04/10/15 08:30
Date Received: 04/10/15 14:21

Lab Sample ID: 240-49236-2
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*4*	*Q*	*44 - 144*	*04/22/15 15:15*	*04/27/15 15:27*	*1*
DCB Decachlorobiphenyl	*4*	*Q*	*44 - 144*	*04/22/15 15:15*	*04/27/15 15:27*	*1*
Tetrachloro-m-xylene	*35*	*Q*	*44 - 127*	*04/22/15 15:15*	*04/27/15 15:27*	*1*
Tetrachloro-m-xylene	*25*	*Q*	*44 - 127*	*04/22/15 15:15*	*04/27/15 15:27*	*1*

Method: 8151A - Herbicides (GC) - TCLP

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	0.0040	U	0.50	0.0019	mg/L		04/16/15 08:24	04/21/15 21:41	1
Silvex (2,4,5-TP)	0.00020	U	0.10	0.00027	mg/L		04/16/15 08:24	04/21/15 21:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*97*	*M Q*	*37 - 116*	*04/16/15 08:24*	*04/21/15 21:41*	*1*
2,4-Dichlorophenylacetic acid	*99*	*Q*	*37 - 116*	*04/16/15 08:24*	*04/21/15 21:41*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0050	U	0.50	0.00092	mg/L		04/16/15 09:57	04/17/15 09:06	1
Arsenic	**0.0074**	**J**	0.50	0.0029	mg/L		04/16/15 09:57	04/17/15 09:06	1
Barium	**0.045**	**J**	10	0.0010	mg/L		04/16/15 09:57	04/17/15 09:06	1
Cadmium	**0.00076**	**J**	0.10	0.00014	mg/L		04/16/15 09:57	04/17/15 09:06	1
Chromium	**0.0067**	**J**	0.50	0.00055	mg/L		04/16/15 09:57	04/17/15 09:06	1
Lead	**0.023**	**J**	0.50	0.0019	mg/L		04/16/15 09:57	04/17/15 09:06	1
Selenium	0.010	U	0.25	0.0040	mg/L		04/16/15 09:57	04/17/15 09:06	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	0.00020	U	0.0020	0.000090	mg/L		04/16/15 14:00	04/17/15 10:49	1

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>200**		1.00	1.00	Degrees F			04/15/15 06:57	1
Cyanide, Total	0.0050	U	0.010	0.0020	mg/L		04/23/15 11:18	04/23/15 14:37	1
Sulfide	3.0	U	3.0	0.94	mg/L		04/14/15 08:03	04/14/15 13:11	1
Corrosivity	**7.22**	**H**	0.100	0.100	SU			04/13/15 11:27	1

Client Sample ID: 079SB-0385-0001-SW
Date Collected: 04/10/15 08:45
Date Received: 04/10/15 14:21

Lab Sample ID: 240-49236-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			04/14/15 12:04	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.22	ug/L			04/14/15 12:04	1
1,1,2-Trichloroethane	0.50	U	1.0	0.24	ug/L			04/14/15 12:04	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			04/14/15 12:04	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			04/14/15 12:04	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			04/14/15 12:04	1
1,2-Dichloroethene, Total	1.0	U	2.0	0.20	ug/L			04/14/15 12:04	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			04/14/15 12:04	1
2-Butanone (MEK)	2.0	U	10	0.53	ug/L			04/14/15 12:04	1
2-Hexanone	2.0	U	10	0.48	ug/L			04/14/15 12:04	1
4-Methyl-2-pentanone (MIBK)	2.0	U	10	0.99	ug/L			04/14/15 12:04	1
Acetone	**1.9**	**J**	10	0.94	ug/L			04/14/15 12:04	1
Benzene	1.0	U	1.0	0.35	ug/L			04/14/15 12:04	1
Bromoform	1.0	U	1.0	0.56	ug/L			04/14/15 12:04	1
Bromomethane	1.0	U	1.0	0.44	ug/L			04/14/15 12:04	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			04/14/15 12:04	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			04/14/15 12:04	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			04/14/15 12:04	1
Chloromethane	1.0	U	1.0	0.44	ug/L			04/14/15 12:04	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			04/14/15 12:04	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			04/14/15 12:04	1
Bromodichloromethane	1.0	U	1.0	0.29	ug/L			04/14/15 12:04	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			04/14/15 12:04	1
Methyl tert-butyl ether	0.50	U	1.0	0.20	ug/L			04/14/15 12:04	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			04/14/15 12:04	1
Styrene	0.50	U	1.0	0.45	ug/L			04/14/15 12:04	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			04/14/15 12:04	1
Toluene	1.0	U	1.0	0.23	ug/L			04/14/15 12:04	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			04/14/15 12:04	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			04/14/15 12:04	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			04/14/15 12:04	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			04/14/15 12:04	1
Chloroform	1.0	U	1.0	0.25	ug/L			04/14/15 12:04	1
Bromochloromethane	1.0	U	1.0	0.50	ug/L			04/14/15 12:04	1
1,2-Dibromoethane	1.0	U	1.0	0.32	ug/L			04/14/15 12:04	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/14/15 12:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*85 - 120*		*04/14/15 12:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 120*		*04/14/15 12:04*	*1*
4-Bromofluorobenzene (Surr)	*95*		*75 - 120*		*04/14/15 12:04*	*1*
Dibromofluoromethane (Surr)	*96*		*85 - 115*		*04/14/15 12:04*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.096	U	0.19	0.043	ug/L		04/13/15 06:18	04/24/15 11:53	1
Acenaphthylene	0.096	U	0.19	0.046	ug/L		04/13/15 06:18	04/24/15 11:53	1
Anthracene	0.096	U	0.19	0.085	ug/L		04/13/15 06:18	04/24/15 11:53	1
Benzo[a]anthracene	0.096	U	0.19	0.028	ug/L		04/13/15 06:18	04/24/15 11:53	1
Benzo[a]pyrene	0.096	U	0.19	0.049	ug/L		04/13/15 06:18	04/24/15 11:53	1

Client: Environmental Chemical Corp.
Project/Site: Ravenna Army Ammunition Plant

TestAmerica Job ID: 240-49236-1

Client Sample ID: 079SB-0385-0001-SW
Date Collected: 04/10/15 08:45
Date Received: 04/10/15 14:21

Lab Sample ID: 240-49236-3
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	0.096	U	0.19	0.038	ug/L		04/13/15 06:18	04/24/15 11:53	1
Benzo[g,h,i]perylene	0.096	U	0.19	0.045	ug/L		04/13/15 06:18	04/24/15 11:53	1
Benzoic acid	19	U	24	9.6	ug/L		04/13/15 06:18	04/24/15 11:53	1
Benzo[k]fluoranthene	0.096	U	0.19	0.043	ug/L		04/13/15 06:18	04/24/15 11:53	1
Benzyl alcohol	0.48	U	4.8	0.37	ug/L		04/13/15 06:18	04/24/15 11:53	1
Bis(2-chloroethoxy)methane	0.48	U	0.96	0.31	ug/L		04/13/15 06:18	04/24/15 11:53	1
Bis(2-chloroethyl)ether	0.096	U	0.96	0.096	ug/L		04/13/15 06:18	04/24/15 11:53	1
bis (2-chloroisopropyl) ether	0.48	U	0.96	0.38	ug/L		04/13/15 06:18	04/24/15 11:53	1
Bis(2-ethylhexyl) phthalate	4.8	U	4.8	1.6	ug/L		04/13/15 06:18	04/24/15 11:53	1
4-Bromophenyl phenyl ether	0.48	U	1.9	0.21	ug/L		04/13/15 06:18	04/24/15 11:53	1
Butyl benzyl phthalate	0.48	U	4.8	0.25	ug/L		04/13/15 06:18	04/24/15 11:53	1
Carbazole	0.48	U	0.96	0.27	ug/L		04/13/15 06:18	04/24/15 11:53	1
4-Chloroaniline	0.48	U	1.9	0.20	ug/L		04/13/15 06:18	04/24/15 11:53	1
4-Chloro-3-methylphenol	0.48	U	1.9	0.20	ug/L		04/13/15 06:18	04/24/15 11:53	1
2-Chloronaphthalene	0.48	U	0.96	0.096	ug/L		04/13/15 06:18	04/24/15 11:53	1
2-Chlorophenol	0.48	U	0.96	0.28	ug/L		04/13/15 06:18	04/24/15 11:53	1
4-Chlorophenyl phenyl ether	0.48	U	1.9	0.29	ug/L		04/13/15 06:18	04/24/15 11:53	1
Chrysene	0.096	U	0.19	0.048	ug/L		04/13/15 06:18	04/24/15 11:53	1
Dibenz(a,h)anthracene	0.096	U	0.19	0.043	ug/L		04/13/15 06:18	04/24/15 11:53	1
Dibenzofuran	0.096	U	0.96	0.019	ug/L		04/13/15 06:18	04/24/15 11:53	1
1,2-Dichlorobenzene	0.48	U	0.96	0.28	ug/L		04/13/15 06:18	04/24/15 11:53	1
1,3-Dichlorobenzene	0.48	U	0.96	0.22	ug/L		04/13/15 06:18	04/24/15 11:53	1
1,4-Dichlorobenzene	0.48	U	0.96	0.33	ug/L		04/13/15 06:18	04/24/15 11:53	1
3,3'-Dichlorobenzidine	0.96	U	4.8	0.36	ug/L		04/13/15 06:18	04/24/15 11:53	1
2,4-Dichlorophenol	0.48	U	1.9	0.18	ug/L		04/13/15 06:18	04/24/15 11:53	1
Diethyl phthalate	0.96	U	1.9	0.58	ug/L		04/13/15 06:18	04/24/15 11:53	1
2,4-Dimethylphenol	0.48	U	1.9	0.24	ug/L		04/13/15 06:18	04/24/15 11:53	1
Dimethyl phthalate	0.48	U	1.9	0.28	ug/L		04/13/15 06:18	04/24/15 11:53	1
Di-n-butyl phthalate	4.8	U	4.8	1.6	ug/L		04/13/15 06:18	04/24/15 11:53	1
4,6-Dinitro-2-methylphenol	3.8	U	4.8	2.3	ug/L		04/13/15 06:18	04/24/15 11:53	1
2,4-Dinitrophenol	0.96	U	4.8	0.31	ug/L		04/13/15 06:18	04/24/15 11:53	1
2,4-Dinitrotoluene	0.48	U	4.8	0.24	ug/L		04/13/15 06:18	04/24/15 11:53	1
2,6-Dinitrotoluene	4.8	U	4.8	1.0	ug/L		04/13/15 06:18	04/24/15 11:53	1
Di-n-octyl phthalate	0.48	U	1.9	0.22	ug/L		04/13/15 06:18	04/24/15 11:53	1
Fluoranthene	0.096	U	0.19	0.043	ug/L		04/13/15 06:18	04/24/15 11:53	1
Fluorene	0.096	U	0.19	0.039	ug/L		04/13/15 06:18	04/24/15 11:53	1
Hexachlorobenzene	0.096	U	0.19	0.082	ug/L		04/13/15 06:18	04/24/15 11:53	1
Hexachlorobutadiene	0.48	U	0.96	0.26	ug/L		04/13/15 06:18	04/24/15 11:53	1
Hexachlorocyclopentadiene	0.48	U	9.6	0.23	ug/L		04/13/15 06:18	04/24/15 11:53	1
Hexachloroethane	0.48	U	0.96	0.18	ug/L		04/13/15 06:18	04/24/15 11:53	1
Indeno[1,2,3-cd]pyrene	0.096	U	0.19	0.042	ug/L		04/13/15 06:18	04/24/15 11:53	1
Isophorone	0.48	U	0.96	0.26	ug/L		04/13/15 06:18	04/24/15 11:53	1
2-Methylnaphthalene	0.096	U	0.19	0.087	ug/L		04/13/15 06:18	04/24/15 11:53	1
2-Methylphenol	0.48	U	0.96	0.16	ug/L		04/13/15 06:18	04/24/15 11:53	1
3 & 4 Methylphenol	0.96	U	1.9	0.77	ug/L		04/13/15 06:18	04/24/15 11:53	1
Naphthalene	0.096	U	0.19	0.060	ug/L		04/13/15 06:18	04/24/15 11:53	1
2-Nitroaniline	0.48	U	1.9	0.20	ug/L		04/13/15 06:18	04/24/15 11:53	1
3-Nitroaniline	0.48	U	1.9	0.27	ug/L		04/13/15 06:18	04/24/15 11:53	1
4-Nitroaniline	0.48	U	1.9	0.21	ug/L		04/13/15 06:18	04/24/15 11:53	1

Client Sample ID: 079SB-0385-0001-SW
Date Collected: 04/10/15 08:45
Date Received: 04/10/15 14:21

Lab Sample ID: 240-49236-3
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	0.096	U	0.96	0.038	ug/L		04/13/15 06:18	04/24/15 11:53	1
2-Nitrophenol	0.48	U	1.9	0.27	ug/L		04/13/15 06:18	04/24/15 11:53	1
4-Nitrophenol	3.8	U	4.8	0.28	ug/L		04/13/15 06:18	04/24/15 11:53	1
N-Nitrosodi-n-propylamine	0.48	U	0.96	0.23	ug/L		04/13/15 06:18	04/24/15 11:53	1
N-Nitrosodiphenylamine	0.48	U	0.96	0.30	ug/L		04/13/15 06:18	04/24/15 11:53	1
Pentachlorophenol	0.96	U	4.8	0.26	ug/L		04/13/15 06:18	04/24/15 11:53	1
Phenanthrene	0.096	U	0.19	0.060	ug/L		04/13/15 06:18	04/24/15 11:53	1
Phenol	0.96	U	0.96	0.58	ug/L		04/13/15 06:18	04/24/15 11:53	1
Pyrene	0.096	U	0.19	0.040	ug/L		04/13/15 06:18	04/24/15 11:53	1
1,2,4-Trichlorobenzene	0.48	U	0.96	0.27	ug/L		04/13/15 06:18	04/24/15 11:53	1
2,4,5-Trichlorophenol	0.48	U	4.8	0.29	ug/L		04/13/15 06:18	04/24/15 11:53	1
2,4,6-Trichlorophenol	0.48	U	4.8	0.23	ug/L		04/13/15 06:18	04/24/15 11:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*74*		*50 - 110*	*04/13/15 06:18*	*04/24/15 11:53*	*1*
2-Fluorophenol (Surr)	*75*		*20 - 110*	*04/13/15 06:18*	*04/24/15 11:53*	*1*
Nitrobenzene-d5 (Surr)	*69*		*40 - 110*	*04/13/15 06:18*	*04/24/15 11:53*	*1*
Phenol-d5 (Surr)	*74*		*10 - 115*	*04/13/15 06:18*	*04/24/15 11:53*	*1*
Terphenyl-d14 (Surr)	*53*		*50 - 135*	*04/13/15 06:18*	*04/24/15 11:53*	*1*
2,4,6-Tribromophenol (Surr)	*87*		*40 - 125*	*04/13/15 06:18*	*04/24/15 11:53*	*1*

Method: 8081A - Organochlorine Pesticides (GC) - RE

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.048	U Q	0.048	0.017	ug/L		04/15/15 09:05	04/16/15 20:43	1
4,4'-DDE	0.048	U	0.048	0.012	ug/L		04/15/15 09:05	04/16/15 20:43	1
4,4'-DDT	0.048	U	0.048	0.016	ug/L		04/15/15 09:05	04/16/15 20:43	1
Aldrin	0.048	U	0.048	0.013	ug/L		04/15/15 09:05	04/16/15 20:43	1
alpha-BHC	0.048	U	0.048	0.013	ug/L		04/15/15 09:05	04/16/15 20:43	1
alpha-Chlordane	0.048	U	0.048	0.012	ug/L		04/15/15 09:05	04/16/15 20:43	1
beta-BHC	0.048	U	0.048	0.017	ug/L		04/15/15 09:05	04/16/15 20:43	1
delta-BHC	0.048	U	0.048	0.028	ug/L		04/15/15 09:05	04/16/15 20:43	1
Dieldrin	0.048	U	0.048	0.013	ug/L		04/15/15 09:05	04/16/15 20:43	1
Endosulfan I	0.048	U	0.048	0.015	ug/L		04/15/15 09:05	04/16/15 20:43	1
Endosulfan II	0.048	U	0.048	0.014	ug/L		04/15/15 09:05	04/16/15 20:43	1
Endosulfan sulfate	0.048	U	0.048	0.014	ug/L		04/15/15 09:05	04/16/15 20:43	1
Endrin	0.048	U	0.048	0.013	ug/L		04/15/15 09:05	04/16/15 20:43	1
Endrin aldehyde	0.048	U	0.048	0.017	ug/L		04/15/15 09:05	04/16/15 20:43	1
Endrin ketone	0.048	U	0.048	0.015	ug/L		04/15/15 09:05	04/16/15 20:43	1
gamma-BHC (Lindane)	0.048	U	0.048	0.013	ug/L		04/15/15 09:05	04/16/15 20:43	1
gamma-Chlordane	0.048	U	0.048	0.013	ug/L		04/15/15 09:05	04/16/15 20:43	1
Heptachlor	0.048	U	0.048	0.013	ug/L		04/15/15 09:05	04/16/15 20:43	1
Heptachlor epoxide	0.048	U	0.048	0.014	ug/L		04/15/15 09:05	04/16/15 20:43	1
Methoxychlor	0.048	U	0.096	0.013	ug/L		04/15/15 09:05	04/16/15 20:43	1
Toxaphene	1.9	U	1.9	0.19	ug/L		04/15/15 09:05	04/16/15 20:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*35*		*30 - 135*	*04/15/15 09:05*	*04/16/15 20:43*	*1*
DCB Decachlorobiphenyl	*28*	*Q*	*30 - 135*	*04/15/15 09:05*	*04/16/15 20:43*	*1*
Tetrachloro-m-xylene	*78*		*25 - 140*	*04/15/15 09:05*	*04/16/15 20:43*	*1*
Tetrachloro-m-xylene	*73*		*25 - 140*	*04/15/15 09:05*	*04/16/15 20:43*	*1*

Client Sample ID: 079SB-0385-0001-SW
Date Collected: 04/10/15 08:45
Date Received: 04/10/15 14:21

Lab Sample ID: 240-49236-3
Matrix: Water

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1221	0.19	U Q	0.48	0.12	ug/L		04/13/15 06:11	04/14/15 14:05	1
Aroclor-1016	0.19	U Q	0.48	0.16	ug/L		04/13/15 06:11	04/14/15 14:05	1
Aroclor-1232	0.19	U Q	0.48	0.15	ug/L		04/13/15 06:11	04/14/15 14:05	1
Aroclor-1242	0.38	U Q	0.48	0.21	ug/L		04/13/15 06:11	04/14/15 14:05	1
Aroclor-1248	0.19	U Q	0.48	0.095	ug/L		04/13/15 06:11	04/14/15 14:05	1
Aroclor-1254	0.19	U Q	0.48	0.15	ug/L		04/13/15 06:11	04/14/15 14:05	1
Aroclor-1260	0.19	U Q	0.48	0.16	ug/L		04/13/15 06:11	04/14/15 14:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*76*		*40 - 140*	*04/13/15 06:11*	*04/14/15 14:05*	*1*
Tetrachloro-m-xylene	*76*		*40 - 140*	*04/13/15 06:11*	*04/14/15 14:05*	*1*
DCB Decachlorobiphenyl	*23*	*Q*	*40 - 135*	*04/13/15 06:11*	*04/14/15 14:05*	*1*
DCB Decachlorobiphenyl	*23*	*Q*	*40 - 135*	*04/13/15 06:11*	*04/14/15 14:05*	*1*

Method: 8330 Modified - Nitroguanidine (HPLC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Nitroguanidine	6.0	U	20	2.4	ug/L		04/13/15 19:24	04/20/15 17:05	1

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	0.053	U	0.11	0.033	ug/L		04/13/15 09:25	04/15/15 20:09	1
1,3-Dinitrobenzene	0.11	U	0.11	0.053	ug/L		04/13/15 09:25	04/15/15 20:09	1
2,4,6-Trinitrotoluene	0.11	U J	0.11	0.053	ug/L		04/13/15 09:25	04/15/15 20:09	1
2,4-Dinitrotoluene	0.11	U	0.11	0.053	ug/L		04/13/15 09:25	04/15/15 20:09	1
2,6-Dinitrotoluene	0.11	U	0.11	0.053	ug/L		04/13/15 09:25	04/15/15 20:09	1
2-Amino-4,6-dinitrotoluene	0.11	U	0.21	0.016	ug/L		04/13/15 09:25	04/15/15 20:09	1
2-Nitrotoluene	0.11	U	0.53	0.094	ug/L		04/13/15 09:25	04/15/15 20:09	1
3-Nitrotoluene	0.11	U	0.53	0.061	ug/L		04/13/15 09:25	04/15/15 20:09	1
4-Nitrotoluene	0.11	U	0.53	0.094	ug/L		04/13/15 09:25	04/15/15 20:09	1
4-Amino-2,6-dinitrotoluene	0.11	U	0.11	0.053	ug/L		04/13/15 09:25	04/15/15 20:09	1
HMX	0.053	U	0.11	0.038	ug/L		04/13/15 09:25	04/15/15 20:09	1
RDX	0.053	U	0.11	0.038	ug/L		04/13/15 09:25	04/15/15 20:09	1
Nitrobenzene	0.11	U	0.11	0.053	ug/L		04/13/15 09:25	04/15/15 20:09	1
Tetryl	0.11	U	0.11	0.053	ug/L		04/13/15 09:25	04/15/15 20:09	1
Nitroglycerin	0.53	U	0.69	0.35	ug/L		04/13/15 09:25	04/15/15 20:09	1
PETN	0.53	U	0.69	0.32	ug/L		04/13/15 09:25	04/15/15 20:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
3,4-Dinitrotoluene	*91*		*79 - 111*	*04/13/15 09:25*	*04/15/15 20:09*	*1*
3,4-Dinitrotoluene	*95*		*79 - 111*	*04/13/15 09:25*	*04/24/15 02:59*	*1*

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	60	U	60	9.0	ug/L		04/13/15 10:08	04/15/15 13:07	1
Antimony	**0.43**	**J**	2.0	0.16	ug/L		04/13/15 10:08	04/14/15 11:16	1
Arsenic	**0.93**	**J**	5.0	0.18	ug/L		04/13/15 10:08	04/14/15 11:16	1
Barium	**18**		5.0	1.1	ug/L		04/13/15 10:08	04/14/15 11:16	1
Beryllium	**0.27**	**J**	1.0	0.053	ug/L		04/13/15 10:08	04/20/15 17:32	1
Cadmium	**0.38**	**J**	2.0	0.061	ug/L		04/13/15 10:08	04/14/15 11:16	1
Calcium	**18000**		2000	240	ug/L		04/13/15 10:08	04/14/15 11:16	1
Chromium	**1.3**	**J**	6.0	0.20	ug/L		04/13/15 10:08	04/14/15 11:16	1

Client Sample ID: 079SB-0385-0001-SW
Date Collected: 04/10/15 08:45
Date Received: 04/10/15 14:21

Lab Sample ID: 240-49236-3
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	**0.28**	**J**	1.0	0.021	ug/L		04/13/15 10:08	04/14/15 11:16	1
Copper	**1.1**	**J**	4.0	0.75	ug/L		04/13/15 10:08	04/14/15 11:16	1
Iron	**30**	**J**	150	16	ug/L		04/13/15 10:08	04/14/15 11:16	1
Lead	**0.18**	**J**	1.0	0.11	ug/L		04/13/15 10:08	04/14/15 11:16	1
Magnesium	**31000**	**D**	5000	240	ug/L		04/13/15 10:08	04/15/15 13:43	5
Manganese	10	U	10	1.1	ug/L		04/13/15 10:08	04/15/15 13:07	1
Nickel	3.0	U	5.0	0.23	ug/L		04/13/15 10:08	04/14/15 11:16	1
Potassium	**2700**		1000	30	ug/L		04/13/15 10:08	04/14/15 11:16	1
Selenium	**0.62**	**J**	5.0	0.25	ug/L		04/13/15 10:08	04/14/15 11:16	1
Silver	0.25	U	1.0	0.020	ug/L		04/13/15 10:08	04/14/15 11:16	1
Sodium	**43000**		1000	68	ug/L		04/13/15 10:08	04/15/15 13:07	1
Thallium	**0.22**	**J**	2.0	0.074	ug/L		04/13/15 10:08	04/14/15 11:16	1
Vanadium	**0.35**	**J**	5.0	0.23	ug/L		04/13/15 10:08	04/14/15 11:16	1
Zinc	50	U	50	7.3	ug/L		04/13/15 10:08	04/14/15 11:16	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		04/13/15 14:00	04/14/15 11:15	1

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrocellulose	1.0	U	2.0	0.48	mg/L		04/21/15 06:08	04/21/15 14:53	1

Client Sample ID: 079SB-0386-0001-RB

Lab Sample ID: 240-49236-4

Date Collected: 04/10/15 08:50

Matrix: Water

Date Received: 04/10/15 14:21

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**53**	**J**	60	9.0	ug/L		04/13/15 10:08	04/15/15 13:31	1
Antimony	**0.66**	**J**	2.0	0.16	ug/L		04/13/15 10:08	04/14/15 11:43	1
Arsenic	**0.38**	**J**	5.0	0.18	ug/L		04/13/15 10:08	04/14/15 11:43	1
Barium	4.0	U	5.0	1.1	ug/L		04/13/15 10:08	04/14/15 11:43	1
Beryllium	**0.16**	**J**	1.0	0.053	ug/L		04/13/15 10:08	04/20/15 17:51	1
Cadmium	**0.079**	**J**	2.0	0.061	ug/L		04/13/15 10:08	04/14/15 11:43	1
Calcium	1000	U	2000	240	ug/L		04/13/15 10:08	04/14/15 11:43	1
Chromium	**2.0**	**J**	6.0	0.20	ug/L		04/13/15 10:08	04/14/15 11:43	1
Cobalt	**0.13**	**J**	1.0	0.021	ug/L		04/13/15 10:08	04/14/15 11:43	1
Copper	4.0	U	4.0	0.75	ug/L		04/13/15 10:08	04/14/15 11:43	1
Iron	**57**	**J**	150	16	ug/L		04/13/15 10:08	04/14/15 11:43	1
Lead	0.50	U	1.0	0.11	ug/L		04/13/15 10:08	04/14/15 11:43	1
Magnesium	300	U	1000	48	ug/L		04/13/15 10:08	04/14/15 11:43	1
Manganese	**5.8**	**J**	10	1.1	ug/L		04/13/15 10:08	04/15/15 13:31	1
Nickel	**2.8**	**J**	5.0	0.23	ug/L		04/13/15 10:08	04/14/15 11:43	1
Potassium	150	U	1000	30	ug/L		04/13/15 10:08	04/14/15 11:43	1
Selenium	0.50	U	5.0	0.25	ug/L		04/13/15 10:08	04/14/15 11:43	1
Silver	0.25	U	1.0	0.020	ug/L		04/13/15 10:08	04/14/15 11:43	1
Sodium	**840**	**J**	1000	68	ug/L		04/13/15 10:08	04/14/15 11:43	1
Thallium	**0.11**	**J**	2.0	0.074	ug/L		04/13/15 10:08	04/14/15 11:43	1
Vanadium	**0.26**	**J**	5.0	0.23	ug/L		04/13/15 10:08	04/14/15 11:43	1
Zinc	50	U	50	7.3	ug/L		04/13/15 10:08	04/14/15 11:43	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		04/13/15 14:00	04/14/15 11:16	1

Client Sample ID: 079SB-0387-0001-RB
Date Collected: 04/10/15 09:00
Date Received: 04/10/15 14:21

Lab Sample ID: 240-49236-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			04/14/15 12:27	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.22	ug/L			04/14/15 12:27	1
1,1,2-Trichloroethane	0.50	U	1.0	0.24	ug/L			04/14/15 12:27	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			04/14/15 12:27	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			04/14/15 12:27	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			04/14/15 12:27	1
1,2-Dichloroethene, Total	1.0	U	2.0	0.20	ug/L			04/14/15 12:27	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			04/14/15 12:27	1
2-Butanone (MEK)	2.0	U	10	0.53	ug/L			04/14/15 12:27	1
2-Hexanone	2.0	U	10	0.48	ug/L			04/14/15 12:27	1
4-Methyl-2-pentanone (MIBK)	2.0	U	10	0.99	ug/L			04/14/15 12:27	1
Acetone	**1.1**	**J**	10	0.94	ug/L			04/14/15 12:27	1
Benzene	1.0	U	1.0	0.35	ug/L			04/14/15 12:27	1
Bromoform	1.0	U	1.0	0.56	ug/L			04/14/15 12:27	1
Bromomethane	1.0	U	1.0	0.44	ug/L			04/14/15 12:27	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			04/14/15 12:27	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			04/14/15 12:27	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			04/14/15 12:27	1
Chloromethane	1.0	U	1.0	0.44	ug/L			04/14/15 12:27	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			04/14/15 12:27	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			04/14/15 12:27	1
Bromodichloromethane	1.0	U	1.0	0.29	ug/L			04/14/15 12:27	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			04/14/15 12:27	1
Methyl tert-butyl ether	0.50	U	1.0	0.20	ug/L			04/14/15 12:27	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			04/14/15 12:27	1
Styrene	0.50	U	1.0	0.45	ug/L			04/14/15 12:27	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			04/14/15 12:27	1
Toluene	1.0	U	1.0	0.23	ug/L			04/14/15 12:27	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			04/14/15 12:27	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			04/14/15 12:27	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			04/14/15 12:27	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			04/14/15 12:27	1
Chloroform	1.0	U	1.0	0.25	ug/L			04/14/15 12:27	1
Bromochloromethane	1.0	U	1.0	0.50	ug/L			04/14/15 12:27	1
1,2-Dibromoethane	1.0	U	1.0	0.32	ug/L			04/14/15 12:27	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/14/15 12:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*85 - 120*		*04/14/15 12:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 120*		*04/14/15 12:27*	*1*
4-Bromofluorobenzene (Surr)	*97*		*75 - 120*		*04/14/15 12:27*	*1*
Dibromofluoromethane (Surr)	*97*		*85 - 115*		*04/14/15 12:27*	*1*

Client Sample ID: 079SB-0388-0001-TB
Date Collected: 04/10/15 07:30
Date Received: 04/10/15 14:21

Lab Sample ID: 240-49236-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			04/14/15 12:50	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.22	ug/L			04/14/15 12:50	1
1,1,2-Trichloroethane	0.50	U	1.0	0.24	ug/L			04/14/15 12:50	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			04/14/15 12:50	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			04/14/15 12:50	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			04/14/15 12:50	1
1,2-Dichloroethene, Total	1.0	U	2.0	0.20	ug/L			04/14/15 12:50	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			04/14/15 12:50	1
2-Butanone (MEK)	2.0	U	10	0.53	ug/L			04/14/15 12:50	1
2-Hexanone	2.0	U	10	0.48	ug/L			04/14/15 12:50	1
4-Methyl-2-pentanone (MIBK)	2.0	U	10	0.99	ug/L			04/14/15 12:50	1
Acetone	**6.5**	**J**	10	0.94	ug/L			04/14/15 12:50	1
Benzene	1.0	U	1.0	0.35	ug/L			04/14/15 12:50	1
Bromoform	1.0	U	1.0	0.56	ug/L			04/14/15 12:50	1
Bromomethane	1.0	U	1.0	0.44	ug/L			04/14/15 12:50	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			04/14/15 12:50	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			04/14/15 12:50	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			04/14/15 12:50	1
Chloromethane	1.0	U	1.0	0.44	ug/L			04/14/15 12:50	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			04/14/15 12:50	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			04/14/15 12:50	1
Bromodichloromethane	1.0	U	1.0	0.29	ug/L			04/14/15 12:50	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			04/14/15 12:50	1
Methyl tert-butyl ether	0.50	U	1.0	0.20	ug/L			04/14/15 12:50	1
Methylene Chloride	**3.3**		1.0	0.33	ug/L			04/14/15 12:50	1
Styrene	0.50	U	1.0	0.45	ug/L			04/14/15 12:50	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			04/14/15 12:50	1
Toluene	1.0	U	1.0	0.23	ug/L			04/14/15 12:50	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			04/14/15 12:50	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			04/14/15 12:50	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			04/14/15 12:50	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			04/14/15 12:50	1
Chloroform	1.0	U	1.0	0.25	ug/L			04/14/15 12:50	1
Bromochloromethane	1.0	U	1.0	0.50	ug/L			04/14/15 12:50	1
1,2-Dibromoethane	1.0	U	1.0	0.32	ug/L			04/14/15 12:50	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/14/15 12:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*85 - 120*		*04/14/15 12:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 120*		*04/14/15 12:50*	*1*
4-Bromofluorobenzene (Surr)	*95*		*75 - 120*		*04/14/15 12:50*	*1*
Dibromofluoromethane (Surr)	*97*		*85 - 115*		*04/14/15 12:50*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	12DCE	BFB	DBFM
Lab Sample ID	Client Sample ID	(80-120)	(80-121)	(70-124)	(84-128)
LCS 240-177316/9	Lab Control Sample	90	84	84	94

Surrogate Legend

TOL = Toluene-d8 (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	12DCE	BFB	DBFM
Lab Sample ID	Client Sample ID	(50-150)	(50-150)	(50-150)	(50-150)
MRL 240-177316/14	Lab Control Sample	87	88	80	91
MRL 240-177316/7	Lab Control Sample	97	91	89	94

Surrogate Legend

TOL = Toluene-d8 (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid — **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	12DCE	BFB	DBFM
Lab Sample ID	Client Sample ID	(80-120)	(80-121)	(70-124)	(84-128)
240-49236-1	079SB-0383-0001-IDW	85	85	77	90
LB 240-176667/1-A MB	Method Blank	89	88	82	95

Surrogate Legend

TOL = Toluene-d8 (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	12DCE	BFB	DBFM
Lab Sample ID	Client Sample ID	(50-150)	(50-150)	(50-150)	(50-150)
MRL 240-176298/15	Lab Control Sample	96	101	97	96
MRL 240-176298/5	Lab Control Sample	96	100	99	99

Surrogate Legend

TOL = Toluene-d8 (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	12DCE	BFB	DBFM
Lab Sample ID	Client Sample ID	(85-120)	(70-120)	(75-120)	(85-115)
240-49236-3	079SB-0385-0001-SW	95	101	95	96
240-49236-5	079SB-0387-0001-RB	97	99	97	97
240-49236-6	079SB-0388-0001-TB	97	98	95	97
LCS 240-176298/4	Lab Control Sample	97	100	98	98
MB 240-176298/6	Method Blank	95	99	95	95

Surrogate Legend

TOL = Toluene-d8 (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	12DCE	BFB	DBFM
Lab Sample ID	Client Sample ID	(80-120)	(80-121)	(70-124)	(84-128)
240-49236-2	079SB-0384-0001-IDW	99	93	85	96
240-49236-2 MS	079SB-0384-0001-IDW	97	87	92	99
240-49236-2 MSD	079SB-0384-0001-IDW	95	99	88	98

Surrogate Legend

TOL = Toluene-d8 (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPH	TBP
Lab Sample ID	Client Sample ID	(22-110)	(10-110)	(29-111)	(10-110)	(40-119)	(17-117)
LCS 240-176654/9-A	Lab Control Sample	85	33	86	70	83	97
MB 240-176654/8-A	Method Blank	87	46	82	74	84	71

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)

Surrogate Summary

Client: Environmental Chemical Corp.
Project/Site: Ravenna Army Ammunition Plant

TestAmerica Job ID: 240-49236-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		FBP	2FP	NBZ	PHL	TPH	TBP		
Lab Sample ID	Client Sample ID	(70-130)	(50-150)	(50-150)	(50-150)	(50-150)	(50-150)		
MRL 240-177779/17	Lab Control Sample	95	101	95	96	98	113		
MRL 240-177779/3	Lab Control Sample	94	107	97	99	98	108		

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid — **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)							
		FBP	2FP	NBZ	TPH	TBP	PHL		
Lab Sample ID	Client Sample ID	(22-110)	(10-110)	(29-111)	(40-119)	(17-117)	(10-110)		
240-49236-1	079SB-0383-0001-IDW	81	60	78	85	84	74		

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPH = Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
PHL = Phenol-d5 (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		FBP	2FP	NBZ	PHL	TPH	TBP		
Lab Sample ID	Client Sample ID	(50-110)	(20-110)	(40-110)	(10-115)	(50-135)	(40-125)		
240-49236-3	079SB-0385-0001-SW	74	75	69	74	53	87		
LCS 240-176086/3-A	Lab Control Sample	69	70	70	67	70	83		
MB 240-176086/2-A	Method Blank	78	80	75	80	80	86		

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)

Surrogate Summary

Client: Environmental Chemical Corp.
Project/Site: Ravenna Army Ammunition Plant

TestAmerica Job ID: 240-49236-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)							
		FBP	2FP	NBZ	TPH	TBP	PHL		
Lab Sample ID	Client Sample ID	(22-110)	(10-110)	(29-111)	(40-119)	(17-117)	(10-110)		
240-49236-2	079SB-0384-0001-IDW	85	19	72	80	96	68		

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPH = Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
PHL = Phenol-d5 (Surr)

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		DCB1	DCB2	TCX1	TCX2				
Lab Sample ID	Client Sample ID	(44-144)	(44-144)	(44-127)	(44-127)				
LCS 240-176661/6-A	Lab Control Sample	102	101	89	87				
MB 240-176661/5-A	Method Blank	78	82	83	80				

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		DCB1	DCB2	TCX1	TCX2				
Lab Sample ID	Client Sample ID	(50-150)	(50-150)	(50-150)	(50-150)				
MRL 240-177258/31	Lab Control Sample	123	123	116	120				
MRL 240-177258/49	Lab Control Sample	116	117	117	118				

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid — **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)							
		DCB1	DCB2	TCX1	TCX2				
Lab Sample ID	Client Sample ID	(44-144)	(44-144)	(44-127)	(44-127)				
240-49236-1	079SB-0383-0001-IDW	92 Q	93 Q	90 Q	92 Q				

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: Environmental Chemical Corp.
Project/Site: Ravenna Army Ammunition Plant

TestAmerica Job ID: 240-49236-1

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(30-135)	(30-135)	(25-140)	(25-140)
240-49236-3 - RE	079SB-0385-0001-SW	35	28 Q	78	73
LCS 240-176509/3-A	Lab Control Sample	92	93	91	88
MB 240-176509/2-A	Method Blank	99	96	84	84

Surrogate Legend

DCB = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(44-144)	(44-144)	(44-127)	(44-127)
LCS 240-177491/4-A	Lab Control Sample	108	105	72	71
MB 240-177491/3-A	Method Blank	98	98	79	78

Surrogate Legend

DCB = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(50-150)	(50-150)	(50-150)	(50-150)
MRL 240-176694/16	Lab Control Sample	125	120	107	109
MRL 240-176694/31	Lab Control Sample	126	123	112	112
MRL 240-178086/12	Lab Control Sample	101	101	109	113
MRL 240-178086/19	Lab Control Sample	119	115	112	115

Surrogate Legend

DCB = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Water — **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(44-144)	(44-144)	(44-127)	(44-127)
240-49236-2 - RE	079SB-0384-0001-IDW	4 Q	4 Q	35 Q	25 Q
240-49236-2 MS	079SB-0384-0001-IDW	2 Q	2 Q	34 Q	26 Q

Surrogate Legend

DCB = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: Environmental Chemical Corp.
Project/Site: Ravenna Army Ammunition Plant

TestAmerica Job ID: 240-49236-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCB1	DCB2
Lab Sample ID	Client Sample ID	(40-140)	(40-140)	(40-135)	(40-135)
240-49236-3	079SB-0385-0001-SW	76	76	23 Q	23 Q
LCS 240-176083/4-A	Lab Control Sample	74	82	70	69
MB 240-176083/3-A	Method Blank	74	70	90	88

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCB1	DCB2
Lab Sample ID	Client Sample ID	(50-150)	(50-150)	(50-150)	(50-150)
MRL 240-176376/10	Lab Control Sample	119	111	120	130
MRL 240-176376/4	Lab Control Sample	104	111	111	118

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Method: 8151A - Herbicides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCPA1	DCPA2
Lab Sample ID	Client Sample ID	(37-116)	(37-116)
LCS 240-176663/6-A	Lab Control Sample	88	90
MB 240-176663/5-A	Method Blank	94	72
MRL 240-177320/15	Lab Control Sample	147	113
MRL 240-177320/7	Lab Control Sample	103	108

Surrogate Legend

DCPA = 2,4-Dichlorophenylacetic acid

Method: 8151A - Herbicides (GC)

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCPA1	DCPA2
Lab Sample ID	Client Sample ID	(37-116)	(37-116)
240-49236-1	079SB-0383-0001-IDW	91 Q	82 Q
240-49236-1 MS	079SB-0383-0001-IDW	81	78

Surrogate Legend

DCPA = 2,4-Dichlorophenylacetic acid

Surrogate Summary

Client: Environmental Chemical Corp.
Project/Site: Ravenna Army Ammunition Plant

TestAmerica Job ID: 240-49236-1

Method: 8151A - Herbicides (GC)

Matrix: Water **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	DCPA1 (37-116)	DCPA2 (37-116)								
240-49236-2	079SB-0384-0001-IDW	97 M Q	99 Q								

Surrogate Legend

DCPA = 2,4-Dichlorophenylacetic acid

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	DNT1 (79-111)									
240-49236-3	079SB-0385-0001-SW	91									
240-49236-3	079SB-0385-0001-SW	95									
LCS 320-70962/2-A	Lab Control Sample	95									
MB 320-70962/1-A	Method Blank	92									

Surrogate Legend

DNT = 3,4-Dinitrotoluene

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-176298/6
Matrix: Water
Analysis Batch: 176298

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			04/14/15 09:38	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.22	ug/L			04/14/15 09:38	1
1,1,2-Trichloroethane	0.50	U	1.0	0.24	ug/L			04/14/15 09:38	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			04/14/15 09:38	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			04/14/15 09:38	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			04/14/15 09:38	1
1,2-Dichloroethene, Total	1.0	U	2.0	0.20	ug/L			04/14/15 09:38	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			04/14/15 09:38	1
2-Butanone (MEK)	2.0	U	10	0.53	ug/L			04/14/15 09:38	1
2-Hexanone	2.0	U	10	0.48	ug/L			04/14/15 09:38	1
4-Methyl-2-pentanone (MIBK)	2.0	U	10	0.99	ug/L			04/14/15 09:38	1
Acetone	2.0	U	10	0.94	ug/L			04/14/15 09:38	1
Benzene	1.0	U	1.0	0.35	ug/L			04/14/15 09:38	1
Bromoform	1.0	U	1.0	0.56	ug/L			04/14/15 09:38	1
Bromomethane	1.0	U	1.0	0.44	ug/L			04/14/15 09:38	1
Carbon disulfide	1.0	U	1.0	0.38	ug/L			04/14/15 09:38	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			04/14/15 09:38	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			04/14/15 09:38	1
Chloromethane	1.0	U	1.0	0.44	ug/L			04/14/15 09:38	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			04/14/15 09:38	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			04/14/15 09:38	1
Bromodichloromethane	1.0	U	1.0	0.29	ug/L			04/14/15 09:38	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			04/14/15 09:38	1
Methyl tert-butyl ether	0.50	U	1.0	0.20	ug/L			04/14/15 09:38	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			04/14/15 09:38	1
Styrene	0.50	U	1.0	0.45	ug/L			04/14/15 09:38	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			04/14/15 09:38	1
Toluene	1.0	U	1.0	0.23	ug/L			04/14/15 09:38	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			04/14/15 09:38	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			04/14/15 09:38	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			04/14/15 09:38	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			04/14/15 09:38	1
Chloroform	1.0	U	1.0	0.25	ug/L			04/14/15 09:38	1
Bromochloromethane	1.0	U	1.0	0.50	ug/L			04/14/15 09:38	1
1,2-Dibromoethane	1.0	U	1.0	0.32	ug/L			04/14/15 09:38	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/14/15 09:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*85 - 120*		*04/14/15 09:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 120*		*04/14/15 09:38*	*1*
4-Bromofluorobenzene (Surr)	*95*		*75 - 120*		*04/14/15 09:38*	*1*
Dibromofluoromethane (Surr)	*95*		*85 - 115*		*04/14/15 09:38*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-176298/4
Matrix: Water
Analysis Batch: 176298

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	10.0	10.7		ug/L		107	65 - 130
1,1,2,2-Tetrachloroethane	10.0	9.22		ug/L		92	65 - 130
1,1,2-Trichloroethane	10.0	9.39		ug/L		94	75 - 125
1,1-Dichloroethane	10.0	10.6		ug/L		106	70 - 135
1,1-Dichloroethene	10.0	10.9		ug/L		109	70 - 130
1,2-Dichloroethane	10.0	10.5		ug/L		105	70 - 130
1,2-Dichloropropane	10.0	10.2		ug/L		102	75 - 125
2-Butanone (MEK)	20.0	19.4		ug/L		97	30 - 150
2-Hexanone	20.0	17.8		ug/L		89	55 - 130
4-Methyl-2-pentanone (MIBK)	20.0	19.4		ug/L		97	60 - 135
Acetone	20.0	16.4		ug/L		82	40 - 140
Benzene	10.0	10.2		ug/L		102	80 - 120
Bromoform	10.0	9.41		ug/L		94	70 - 130
Bromomethane	10.0	8.72		ug/L		87	30 - 145
Carbon disulfide	10.0	11.3		ug/L		113	35 - 160
Carbon tetrachloride	10.0	11.2		ug/L		112	65 - 140
Chlorobenzene	10.0	9.48		ug/L		95	80 - 120
Chloromethane	10.0	10.3		ug/L		103	40 - 125
cis-1,3-Dichloropropene	10.0	10.6		ug/L		106	70 - 130
Dibromochloromethane	10.0	9.75		ug/L		97	60 - 135
Bromodichloromethane	10.0	9.94		ug/L		99	75 - 120
Ethylbenzene	10.0	9.93		ug/L		99	75 - 125
Methyl tert-butyl ether	10.0	10.2		ug/L		102	65 - 125
Methylene Chloride	10.0	10.1		ug/L		101	55 - 140
Styrene	10.0	10.1		ug/L		101	65 - 135
Tetrachloroethene	10.0	10.0		ug/L		100	45 - 150
Toluene	10.0	9.79		ug/L		98	75 - 120
trans-1,3-Dichloropropene	10.0	10.7		ug/L		107	55 - 140
Trichloroethene	10.0	10.5		ug/L		105	70 - 125
Vinyl chloride	10.0	9.95		ug/L		100	50 - 145
Xylenes, Total	20.0	19.8		ug/L		99	75 - 130
Chloroform	10.0	10.3		ug/L		103	65 - 135
Bromochloromethane	10.0	10.2		ug/L		102	65 - 130
Chloroethane	10.0	9.31		ug/L		93	60 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*85 - 120*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 120*
4-Bromofluorobenzene (Surr)	*98*		*75 - 120*
Dibromofluoromethane (Surr)	*98*		*85 - 115*

Lab Sample ID: MRL 240-176298/15
Matrix: Water
Analysis Batch: 176298

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	0.00100	0.000982	J	ng/uL		98	70 - 130
1,1,2,2-Tetrachloroethane	0.00100	0.000945	J	ng/uL		95	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MRL 240-176298/15
Matrix: Water
Analysis Batch: 176298

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	0.00100	0.000931	J	ng/uL		93	70 - 130
1,1-Dichloroethane	0.00100	0.000968	J	ng/uL		97	70 - 130
1,1-Dichloroethene	0.00100	0.000965	J	ng/uL		97	70 - 130
1,2-Dichloroethane	0.00100	0.000984	J	ng/uL		98	70 - 130
1,2-Dichloropropane	0.00100	0.000928	J	ng/uL		93	70 - 130
2-Butanone (MEK)	0.0100	0.00811	J	ng/uL		81	70 - 130
2-Hexanone	0.0100	0.00817	J	ng/uL		82	70 - 130
4-Methyl-2-pentanone (MIBK)	0.0100	0.00909	J	ng/uL		91	70 - 130
Acetone	0.0100	0.00706	J	ng/uL		71	70 - 130
Benzene	0.00100	0.000970	J	ng/uL		97	70 - 130
Bromoform	0.00100	0.000830	J	ng/uL		83	70 - 130
Bromomethane	0.00100	0.00136	^	ng/uL		136	70 - 130
Carbon disulfide	0.00100	0.000787	J	ng/uL		79	70 - 130
Carbon tetrachloride	0.00100	0.000935	J	ng/uL		94	70 - 130
Chlorobenzene	0.00100	0.000960	J	ng/uL		96	70 - 130
Chloromethane	0.00100	0.00130		ng/uL		130	70 - 130
cis-1,3-Dichloropropene	0.00100	0.000825	J	ng/uL		83	70 - 130
Dibromochloromethane	0.00100	0.000768	J	ng/uL		77	70 - 130
Bromodichloromethane	0.00100	0.000958	J	ng/uL		96	70 - 130
Ethylbenzene	0.00100	0.00101		ng/uL		101	70 - 130
Methyl tert-butyl ether	0.00100	0.000891	J	ng/uL		89	70 - 130
Methylene Chloride	0.00100	0.000972	J	ng/uL		97	70 - 130
Styrene	0.00100	0.000846	J	ng/uL		85	70 - 130
Tetrachloroethene	0.00100	0.00102		ng/uL		102	70 - 130
Toluene	0.00100	0.000947	J	ng/uL		95	70 - 130
trans-1,3-Dichloropropene	0.00100	0.000794	J	ng/uL		79	70 - 130
Trichloroethene	0.00100	0.000992	J	ng/uL		99	70 - 130
Vinyl chloride	0.00100	0.00130		ng/uL		130	70 - 130
Xylenes, Total	0.00200	0.00189	J	ng/uL		95	70 - 130
Chloroform	0.00100	0.000964	J	ng/uL		96	70 - 130
Bromochloromethane	0.00100	0.000981	J	ng/uL		98	70 - 130
Chloroethane	0.00100	0.00131	^	ng/uL		131	70 - 130

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
Toluene-d8 (Surr)	*96*		*50 - 150*
1,2-Dichloroethane-d4 (Surr)	*101*		*50 - 150*
4-Bromofluorobenzene (Surr)	*97*		*50 - 150*
Dibromofluoromethane (Surr)	*96*		*50 - 150*

Lab Sample ID: MRL 240-176298/5
Matrix: Water
Analysis Batch: 176298

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	0.00100	0.00109		ng/uL		109	70 - 130
1,1,2,2-Tetrachloroethane	0.00100	0.000903	J	ng/uL		90	70 - 130
1,1,2-Trichloroethane	0.00100	0.000924	J	ng/uL		92	70 - 130
1,1-Dichloroethane	0.00100	0.00104		ng/uL		104	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MRL 240-176298/5
Matrix: Water
Analysis Batch: 176298

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	0.00100	0.00100		ng/uL		100	70 - 130
1,2-Dichloroethane	0.00100	0.000987	J	ng/uL		99	70 - 130
1,2-Dichloropropane	0.00100	0.00102		ng/uL		102	70 - 130
2-Butanone (MEK)	0.0100	0.00892	J	ng/uL		89	70 - 130
2-Hexanone	0.0100	0.00881	J	ng/uL		88	70 - 130
4-Methyl-2-pentanone (MIBK)	0.0100	0.00924	J	ng/uL		92	70 - 130
Acetone	0.0100	0.00855	J	ng/uL		85	70 - 130
Benzene	0.00100	0.00102		ng/uL		102	70 - 130
Bromoform	0.00100	0.000768	J	ng/uL		77	70 - 130
Bromomethane	0.00100	0.00143	^	ng/uL		143	70 - 130
Carbon disulfide	0.00100	0.000940	J	ng/uL		94	70 - 130
Carbon tetrachloride	0.00100	0.000976	J	ng/uL		98	70 - 130
Chlorobenzene	0.00100	0.000987	J	ng/uL		99	70 - 130
Chloromethane	0.00100	0.00138	^	ng/uL		138	70 - 130
cis-1,3-Dichloropropene	0.00100	0.000980	J	ng/uL		98	70 - 130
Dibromochloromethane	0.00100	0.000862	J	ng/uL		86	70 - 130
Bromodichloromethane	0.00100	0.000930	J	ng/uL		93	70 - 130
Ethylbenzene	0.00100	0.000988	J	ng/uL		99	70 - 130
Methyl tert-butyl ether	0.00100	0.00101		ng/uL		101	70 - 130
Methylene Chloride	0.00100	0.000888	J	ng/uL		89	70 - 130
Styrene	0.00100	0.000929	J	ng/uL		93	70 - 130
Tetrachloroethene	0.00100	0.00110		ng/uL		110	70 - 130
Toluene	0.00100	0.000982	J	ng/uL		98	70 - 130
trans-1,3-Dichloropropene	0.00100	0.000921	J	ng/uL		92	70 - 130
Trichloroethene	0.00100	0.00105		ng/uL		105	70 - 130
Vinyl chloride	0.00100	0.00137	^	ng/uL		137	70 - 130
Xylenes, Total	0.00200	0.00187	J	ng/uL		93	70 - 130
Chloroform	0.00100	0.000987	J	ng/uL		99	70 - 130
Bromochloromethane	0.00100	0.00104		ng/uL		104	70 - 130
Chloroethane	0.00100	0.00133	^	ng/uL		133	70 - 130

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
Toluene-d8 (Surr)	*96*		*50 - 150*
1,2-Dichloroethane-d4 (Surr)	*100*		*50 - 150*
4-Bromofluorobenzene (Surr)	*99*		*50 - 150*
Dibromofluoromethane (Surr)	*99*		*50 - 150*

Lab Sample ID: LCS 240-177316/9
Matrix: Solid
Analysis Batch: 177316

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	0.500	0.511		mg/L		102	71 - 133
1,2-Dichloroethane	0.500	0.464		mg/L		93	80 - 120
2-Butanone (MEK)	1.00	0.859		mg/L		86	49 - 120
Benzene	0.500	0.485		mg/L		97	80 - 120
Carbon tetrachloride	0.500	0.402		mg/L		80	54 - 122
Chlorobenzene	0.500	0.483		mg/L		97	80 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-177316/9
Matrix: Solid
Analysis Batch: 177316

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	0.500	0.463		mg/L		93	79 - 134
Trichloroethene	0.500	0.531		mg/L		106	78 - 130
Vinyl chloride	0.500	0.493		mg/L		99	56 - 120
Chloroform	0.500	0.481		mg/L		96	80 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*90*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*84*		*80 - 121*
4-Bromofluorobenzene (Surr)	*84*		*70 - 124*
Dibromofluoromethane (Surr)	*94*		*84 - 128*

Lab Sample ID: MRL 240-177316/14
Matrix: Solid
Analysis Batch: 177316

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	0.00100	0.00102		ng/uL		102	70 - 130
1,2-Dichloroethane	0.00100	0.00105		ng/uL		105	70 - 130
2-Butanone (MEK)	0.0100	0.00805	J	ng/uL		80	70 - 130
Benzene	0.00100	0.00105		ng/uL		105	70 - 130
Carbon tetrachloride	0.00100	0.00105		ng/uL		105	70 - 130
Chlorobenzene	0.00100	0.00113		ng/uL		113	70 - 130
Tetrachloroethene	0.00100	0.00135	^	ng/uL		135	70 - 130
Trichloroethene	0.00100	0.00110		ng/uL		110	70 - 130
Vinyl chloride	0.00100	0.000875	J	ng/uL		88	70 - 130
Chloroform	0.00100	0.00114		ng/uL		114	70 - 130

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
Toluene-d8 (Surr)	*87*		*50 - 150*
1,2-Dichloroethane-d4 (Surr)	*88*		*50 - 150*
4-Bromofluorobenzene (Surr)	*80*		*50 - 150*
Dibromofluoromethane (Surr)	*91*		*50 - 150*

Lab Sample ID: MRL 240-177316/7
Matrix: Solid
Analysis Batch: 177316

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	0.00100	0.000978	J	ng/uL		98	70 - 130
1,2-Dichloroethane	0.00100	0.00118		ng/uL		118	70 - 130
2-Butanone (MEK)	0.0100	0.00738	J	ng/uL		74	70 - 130
Benzene	0.00100	0.00104		ng/uL		104	70 - 130
Carbon tetrachloride	0.00100	0.000795	J	ng/uL		80	70 - 130
Chlorobenzene	0.00100	0.00111		ng/uL		111	70 - 130
Tetrachloroethene	0.00100	0.00106		ng/uL		106	70 - 130
Trichloroethene	0.00100	0.00118		ng/uL		118	70 - 130
Vinyl chloride	0.00100	0.00127		ng/uL		127	70 - 130
Chloroform	0.00100	0.00110		ng/uL		110	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MRL 240-177316/7
Matrix: Solid
Analysis Batch: 177316

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	MRL %Recovery	MRL Qualifier	Limits
Toluene-d8 (Surr)	*97*		*50 - 150*
1,2-Dichloroethane-d4 (Surr)	*91*		*50 - 150*
4-Bromofluorobenzene (Surr)	*89*		*50 - 150*
Dibromofluoromethane (Surr)	*94*		*50 - 150*

Lab Sample ID: LB 240-176667/1-A MB
Matrix: Solid
Analysis Batch: 177316

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.013	U	0.025	0.0095	mg/L			04/21/15 18:23	1
1,2-Dichloroethane	0.013	U	0.025	0.011	mg/L			04/21/15 18:23	1
2-Butanone (MEK)	0.025	U	0.25	0.029	mg/L			04/21/15 18:23	1
Benzene	0.013	U	0.025	0.0065	mg/L			04/21/15 18:23	1
Carbon tetrachloride	0.013	U	0.025	0.0065	mg/L			04/21/15 18:23	1
Chlorobenzene	0.013	U	0.025	0.0075	mg/L			04/21/15 18:23	1
Tetrachloroethene	0.025	U	0.025	0.015	mg/L			04/21/15 18:23	1
Trichloroethene	0.013	U	0.025	0.0085	mg/L			04/21/15 18:23	1
Vinyl chloride	0.013	U	0.025	0.011	mg/L			04/21/15 18:23	1
Chloroform	0.013	U	0.025	0.0080	mg/L			04/21/15 18:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*89*		*80 - 120*		*04/21/15 18:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*80 - 121*		*04/21/15 18:23*	*1*
4-Bromofluorobenzene (Surr)	*82*		*70 - 124*		*04/21/15 18:23*	*1*
Dibromofluoromethane (Surr)	*95*		*84 - 128*		*04/21/15 18:23*	*1*

Lab Sample ID: 240-49236-2 MS
Matrix: Water
Analysis Batch: 177316

Client Sample ID: 079SB-0384-0001-IDW
Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	0.013	U	0.500	0.574		mg/L		115	67 - 139
1,2-Dichloroethane	0.013	U	0.500	0.455		mg/L		91	80 - 120
2-Butanone (MEK)	0.025	U	1.00	0.923		mg/L		92	49 - 120
Benzene	0.013	U	0.500	0.459		mg/L		92	80 - 120
Carbon tetrachloride	0.013	U	0.500	0.338		mg/L		68	60 - 120
Chlorobenzene	0.013	U	0.500	0.467		mg/L		93	80 - 120
Tetrachloroethene	0.025	U	0.500	0.477		mg/L		95	74 - 138
Trichloroethene	0.013	U	0.500	0.515		mg/L		103	75 - 134
Vinyl chloride	0.013	U	0.500	0.508		mg/L		102	51 - 120
Chloroform	0.013	U	0.500	0.470		mg/L		94	80 - 124

Surrogate	MS %Recovery	MS Qualifier	Limits
Toluene-d8 (Surr)	*97*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*87*		*80 - 121*
4-Bromofluorobenzene (Surr)	*92*		*70 - 124*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-49236-2 MS
Matrix: Water
Analysis Batch: 177316

Client Sample ID: 079SB-0384-0001-IDW
Prep Type: TCLP

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr)	99		84 - 128

Lab Sample ID: 240-49236-2 MSD
Matrix: Water
Analysis Batch: 177316

Client Sample ID: 079SB-0384-0001-IDW
Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene	0.013	U	0.500	0.660		mg/L		132	67 - 139	14	30
1,2-Dichloroethane	0.013	U	0.500	0.471		mg/L		94	80 - 120	4	30
2-Butanone (MEK)	0.025	U	1.00	0.990		mg/L		99	49 - 120	7	30
Benzene	0.013	U	0.500	0.489		mg/L		98	80 - 120	6	30
Carbon tetrachloride	0.013	U	0.500	0.380		mg/L		76	60 - 120	12	30
Chlorobenzene	0.013	U	0.500	0.494		mg/L		99	80 - 120	6	30
Tetrachloroethene	0.025	U	0.500	0.480		mg/L		96	74 - 138	1	30
Trichloroethene	0.013	U	0.500	0.547		mg/L		109	75 - 134	6	30
Vinyl chloride	0.013	U	0.500	0.541		mg/L		108	51 - 120	6	30
Chloroform	0.013	U	0.500	0.501		mg/L		100	80 - 124	6	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Toluene-d8 (Surr)	95		80 - 120
1,2-Dichloroethane-d4 (Surr)	99		80 - 121
4-Bromofluorobenzene (Surr)	88		70 - 124
Dibromofluoromethane (Surr)	98		84 - 128

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-176086/2-A
Matrix: Water
Analysis Batch: 177779

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 176086

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.10	U	0.20	0.044	ug/L		04/13/15 06:18	04/24/15 09:23	1
Acenaphthylene	0.10	U	0.20	0.048	ug/L		04/13/15 06:18	04/24/15 09:23	1
Anthracene	0.10	U	0.20	0.088	ug/L		04/13/15 06:18	04/24/15 09:23	1
Benzo[a]anthracene	0.10	U	0.20	0.030	ug/L		04/13/15 06:18	04/24/15 09:23	1
Benzo[a]pyrene	0.10	U	0.20	0.051	ug/L		04/13/15 06:18	04/24/15 09:23	1
Benzo[b]fluoranthene	0.10	U	0.20	0.039	ug/L		04/13/15 06:18	04/24/15 09:23	1
Benzo[g,h,i]perylene	0.10	U	0.20	0.046	ug/L		04/13/15 06:18	04/24/15 09:23	1
Benzoic acid	20	U	25	10	ug/L		04/13/15 06:18	04/24/15 09:23	1
Benzo[k]fluoranthene	0.10	U	0.20	0.045	ug/L		04/13/15 06:18	04/24/15 09:23	1
Benzyl alcohol	0.50	U	5.0	0.38	ug/L		04/13/15 06:18	04/24/15 09:23	1
Bis(2-chloroethoxy)methane	0.50	U	1.0	0.32	ug/L		04/13/15 06:18	04/24/15 09:23	1
Bis(2-chloroethyl)ether	0.10	U	1.0	0.10	ug/L		04/13/15 06:18	04/24/15 09:23	1
bis (2-chloroisopropyl) ether	0.50	U	1.0	0.40	ug/L		04/13/15 06:18	04/24/15 09:23	1
Bis(2-ethylhexyl) phthalate	5.0	U	5.0	1.7	ug/L		04/13/15 06:18	04/24/15 09:23	1
4-Bromophenyl phenyl ether	0.50	U	2.0	0.22	ug/L		04/13/15 06:18	04/24/15 09:23	1
Butyl benzyl phthalate	0.50	U	5.0	0.26	ug/L		04/13/15 06:18	04/24/15 09:23	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-176086/2-A
Matrix: Water
Analysis Batch: 177779

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 176086

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Carbazole	0.50	U	1.0	0.28	ug/L		04/13/15 06:18	04/24/15 09:23	1
4-Chloroaniline	0.50	U	2.0	0.21	ug/L		04/13/15 06:18	04/24/15 09:23	1
4-Chloro-3-methylphenol	0.50	U	2.0	0.21	ug/L		04/13/15 06:18	04/24/15 09:23	1
2-Chloronaphthalene	0.50	U	1.0	0.10	ug/L		04/13/15 06:18	04/24/15 09:23	1
2-Chlorophenol	0.50	U	1.0	0.29	ug/L		04/13/15 06:18	04/24/15 09:23	1
4-Chlorophenyl phenyl ether	0.50	U	2.0	0.30	ug/L		04/13/15 06:18	04/24/15 09:23	1
Chrysene	0.10	U	0.20	0.050	ug/L		04/13/15 06:18	04/24/15 09:23	1
Dibenz(a,h)anthracene	0.10	U	0.20	0.045	ug/L		04/13/15 06:18	04/24/15 09:23	1
Dibenzofuran	0.10	U	1.0	0.020	ug/L		04/13/15 06:18	04/24/15 09:23	1
1,2-Dichlorobenzene	0.50	U	1.0	0.29	ug/L		04/13/15 06:18	04/24/15 09:23	1
1,3-Dichlorobenzene	0.50	U	1.0	0.23	ug/L		04/13/15 06:18	04/24/15 09:23	1
1,4-Dichlorobenzene	0.50	U	1.0	0.34	ug/L		04/13/15 06:18	04/24/15 09:23	1
3,3'-Dichlorobenzidine	1.0	U	5.0	0.37	ug/L		04/13/15 06:18	04/24/15 09:23	1
2,4-Dichlorophenol	0.50	U	2.0	0.19	ug/L		04/13/15 06:18	04/24/15 09:23	1
Diethyl phthalate	1.0	U	2.0	0.60	ug/L		04/13/15 06:18	04/24/15 09:23	1
2,4-Dimethylphenol	0.50	U	2.0	0.25	ug/L		04/13/15 06:18	04/24/15 09:23	1
Dimethyl phthalate	0.50	U	2.0	0.29	ug/L		04/13/15 06:18	04/24/15 09:23	1
Di-n-butyl phthalate	5.0	U	5.0	1.7	ug/L		04/13/15 06:18	04/24/15 09:23	1
4,6-Dinitro-2-methylphenol	4.0	U	5.0	2.4	ug/L		04/13/15 06:18	04/24/15 09:23	1
2,4-Dinitrophenol	1.0	U	5.0	0.32	ug/L		04/13/15 06:18	04/24/15 09:23	1
2,4-Dinitrotoluene	0.50	U	5.0	0.25	ug/L		04/13/15 06:18	04/24/15 09:23	1
2,6-Dinitrotoluene	5.0	U	5.0	1.1	ug/L		04/13/15 06:18	04/24/15 09:23	1
Di-n-octyl phthalate	0.50	U	2.0	0.23	ug/L		04/13/15 06:18	04/24/15 09:23	1
Fluoranthene	0.10	U	0.20	0.045	ug/L		04/13/15 06:18	04/24/15 09:23	1
Fluorene	0.10	U	0.20	0.041	ug/L		04/13/15 06:18	04/24/15 09:23	1
Hexachlorobenzene	0.10	U	0.20	0.085	ug/L		04/13/15 06:18	04/24/15 09:23	1
Hexachlorobutadiene	0.50	U	1.0	0.27	ug/L		04/13/15 06:18	04/24/15 09:23	1
Hexachlorocyclopentadiene	0.50	U	10	0.24	ug/L		04/13/15 06:18	04/24/15 09:23	1
Hexachloroethane	0.50	U	1.0	0.19	ug/L		04/13/15 06:18	04/24/15 09:23	1
Indeno[1,2,3-cd]pyrene	0.10	U	0.20	0.043	ug/L		04/13/15 06:18	04/24/15 09:23	1
Isophorone	0.50	U	1.0	0.27	ug/L		04/13/15 06:18	04/24/15 09:23	1
2-Methylnaphthalene	0.10	U	0.20	0.090	ug/L		04/13/15 06:18	04/24/15 09:23	1
2-Methylphenol	0.50	U	1.0	0.17	ug/L		04/13/15 06:18	04/24/15 09:23	1
3 & 4 Methylphenol	1.0	U	2.0	0.80	ug/L		04/13/15 06:18	04/24/15 09:23	1
Naphthalene	0.10	U	0.20	0.063	ug/L		04/13/15 06:18	04/24/15 09:23	1
2-Nitroaniline	0.50	U	2.0	0.21	ug/L		04/13/15 06:18	04/24/15 09:23	1
3-Nitroaniline	0.50	U	2.0	0.28	ug/L		04/13/15 06:18	04/24/15 09:23	1
4-Nitroaniline	0.50	U	2.0	0.22	ug/L		04/13/15 06:18	04/24/15 09:23	1
Nitrobenzene	0.10	U	1.0	0.040	ug/L		04/13/15 06:18	04/24/15 09:23	1
2-Nitrophenol	0.50	U	2.0	0.28	ug/L		04/13/15 06:18	04/24/15 09:23	1
4-Nitrophenol	4.0	U	5.0	0.29	ug/L		04/13/15 06:18	04/24/15 09:23	1
N-Nitrosodi-n-propylamine	0.50	U	1.0	0.24	ug/L		04/13/15 06:18	04/24/15 09:23	1
N-Nitrosodiphenylamine	0.50	U	1.0	0.31	ug/L		04/13/15 06:18	04/24/15 09:23	1
Pentachlorophenol	1.0	U	5.0	0.27	ug/L		04/13/15 06:18	04/24/15 09:23	1
Phenanthrene	0.10	U	0.20	0.062	ug/L		04/13/15 06:18	04/24/15 09:23	1
Phenol	1.0	U	1.0	0.60	ug/L		04/13/15 06:18	04/24/15 09:23	1
Pyrene	0.10	U	0.20	0.042	ug/L		04/13/15 06:18	04/24/15 09:23	1
1,2,4-Trichlorobenzene	0.50	U	1.0	0.28	ug/L		04/13/15 06:18	04/24/15 09:23	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-176086/2-A
Matrix: Water
Analysis Batch: 177779

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 176086

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	0.50	U	5.0	0.30	ug/L		04/13/15 06:18	04/24/15 09:23	1
2,4,6-Trichlorophenol	0.50	U	5.0	0.24	ug/L		04/13/15 06:18	04/24/15 09:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*78*		*50 - 110*	*04/13/15 06:18*	*04/24/15 09:23*	*1*
2-Fluorophenol (Surr)	*80*		*20 - 110*	*04/13/15 06:18*	*04/24/15 09:23*	*1*
Nitrobenzene-d5 (Surr)	*75*		*40 - 110*	*04/13/15 06:18*	*04/24/15 09:23*	*1*
Phenol-d5 (Surr)	*80*		*10 - 115*	*04/13/15 06:18*	*04/24/15 09:23*	*1*
Terphenyl-d14 (Surr)	*80*		*50 - 135*	*04/13/15 06:18*	*04/24/15 09:23*	*1*
2,4,6-Tribromophenol (Surr)	*86*		*40 - 125*	*04/13/15 06:18*	*04/24/15 09:23*	*1*

Lab Sample ID: LCS 240-176086/3-A
Matrix: Water
Analysis Batch: 177779

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 176086

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	20.0	14.7		ug/L		73	45 - 110
Acenaphthylene	20.0	14.1		ug/L		70	50 - 105
Anthracene	20.0	15.1		ug/L		75	55 - 110
Benzo[a]anthracene	20.0	14.6		ug/L		73	55 - 110
Benzo[a]pyrene	20.0	13.4		ug/L		67	55 - 110
Benzo[b]fluoranthene	20.0	14.7		ug/L		74	45 - 120
Benzo[g,h,i]perylene	20.0	14.2		ug/L		71	40 - 125
Benzoic acid	40.0	13.5	J M	ug/L		34	0 - 125
Benzo[k]fluoranthene	20.0	15.3		ug/L		77	45 - 125
Benzyl alcohol	20.0	13.5		ug/L		67	30 - 110
Bis(2-chloroethoxy)methane	20.0	15.5		ug/L		77	45 - 105
Bis(2-chloroethyl)ether	20.0	14.5		ug/L		72	35 - 110
bis (2-chloroisopropyl) ether	20.0	15.5		ug/L		78	25 - 130
Bis(2-ethylhexyl) phthalate	20.0	14.6		ug/L		73	40 - 125
4-Bromophenyl phenyl ether	20.0	17.1		ug/L		86	50 - 115
Butyl benzyl phthalate	20.0	15.1		ug/L		76	45 - 115
Carbazole	20.0	16.5		ug/L		83	50 - 115
4-Chloroaniline	20.0	13.8		ug/L		69	15 - 110
4-Chloro-3-methylphenol	20.0	15.3		ug/L		77	45 - 110
2-Chloronaphthalene	20.0	14.2		ug/L		71	50 - 105
2-Chlorophenol	20.0	14.2		ug/L		71	35 - 105
4-Chlorophenyl phenyl ether	20.0	15.4		ug/L		77	50 - 110
Chrysene	20.0	15.8		ug/L		79	55 - 110
Dibenz(a,h)anthracene	20.0	14.5		ug/L		73	40 - 125
Dibenzofuran	20.0	15.1		ug/L		75	55 - 105
1,2-Dichlorobenzene	20.0	13.6		ug/L		68	35 - 100
1,3-Dichlorobenzene	20.0	12.9		ug/L		64	30 - 100
1,4-Dichlorobenzene	20.0	13.4		ug/L		67	30 - 100
3,3'-Dichlorobenzidine	40.0	29.7		ug/L		74	20 - 110
2,4-Dichlorophenol	20.0	14.9		ug/L		74	50 - 105
Diethyl phthalate	20.0	16.0		ug/L		80	40 - 120
2,4-Dimethylphenol	20.0	11.6		ug/L		58	30 - 110

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-176086/3-A
Matrix: Water
Analysis Batch: 177779

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 176086

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dimethyl phthalate	20.0	16.1		ug/L		81	25 - 125
Di-n-butyl phthalate	20.0	18.0		ug/L		90	55 - 115
4,6-Dinitro-2-methylphenol	40.0	29.2		ug/L		73	40 - 130
2,4-Dinitrophenol	40.0	26.0		ug/L		65	15 - 140
2,4-Dinitrotoluene	20.0	16.2		ug/L		81	50 - 120
2,6-Dinitrotoluene	20.0	15.6		ug/L		78	50 - 115
Di-n-octyl phthalate	20.0	13.7		ug/L		69	35 - 135
Fluoranthene	20.0	16.8		ug/L		84	55 - 115
Fluorene	20.0	15.0		ug/L		75	50 - 110
Hexachlorobenzene	20.0	16.1		ug/L		81	50 - 110
Hexachlorobutadiene	20.0	12.9		ug/L		65	25 - 105
Hexachlorocyclopentadiene	20.0	0.839	J	ug/L		4	4 - 110
Hexachloroethane	20.0	13.4		ug/L		67	30 - 95
Indeno[1,2,3-cd]pyrene	20.0	14.0		ug/L		70	45 - 125
Isophorone	20.0	14.5		ug/L		72	50 - 110
2-Methylnaphthalene	20.0	13.8		ug/L		69	45 - 105
2-Methylphenol	20.0	13.7		ug/L		68	40 - 110
3 & 4 Methylphenol	20.0	14.1		ug/L		71	30 - 110
Naphthalene	20.0	13.8		ug/L		69	40 - 100
2-Nitroaniline	20.0	15.7		ug/L		78	50 - 115
3-Nitroaniline	20.0	16.9		ug/L		84	20 - 125
4-Nitroaniline	20.0	16.4		ug/L		82	35 - 120
Nitrobenzene	20.0	14.4		ug/L		72	45 - 110
2-Nitrophenol	20.0	14.6		ug/L		73	40 - 115
4-Nitrophenol	40.0	32.2		ug/L		80	0 - 125
N-Nitrosodi-n-propylamine	20.0	14.5		ug/L		72	35 - 130
N-Nitrosodiphenylamine	40.0	33.0		ug/L		83	50 - 110
Pentachlorophenol	40.0	28.5		ug/L		71	40 - 115
Phenanthrene	20.0	15.2		ug/L		76	50 - 115
Phenol	20.0	14.2		ug/L		71	0 - 115
Pyrene	20.0	15.6		ug/L		78	50 - 130
1,2,4-Trichlorobenzene	20.0	13.5		ug/L		68	35 - 105
2,4,5-Trichlorophenol	20.0	15.3		ug/L		77	50 - 110
2,4,6-Trichlorophenol	20.0	14.5		ug/L		73	50 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*69*		*50 - 110*
2-Fluorophenol (Surr)	*70*		*20 - 110*
Nitrobenzene-d5 (Surr)	*70*		*40 - 110*
Phenol-d5 (Surr)	*67*		*10 - 115*
Terphenyl-d14 (Surr)	*70*		*50 - 135*
2,4,6-Tribromophenol (Surr)	*83*		*40 - 125*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-176654/8-A
Matrix: Solid
Analysis Batch: 177779

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 176654

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Pyridine	0.00050	U	0.020	0.00035	mg/L		04/16/15 08:13	04/24/15 10:13	1
1,4-Dichlorobenzene	0.00050	U	0.0040	0.00034	mg/L		04/16/15 08:13	04/24/15 10:13	1
2,4-Dinitrotoluene	0.00050	U	0.020	0.00025	mg/L		04/16/15 08:13	04/24/15 10:13	1
Hexachlorobenzene	0.00010	U	0.020	0.000085	mg/L		04/16/15 08:13	04/24/15 10:13	1
Hexachlorobutadiene	0.00050	U	0.020	0.00027	mg/L		04/16/15 08:13	04/24/15 10:13	1
Hexachloroethane	0.00050	U	0.020	0.00019	mg/L		04/16/15 08:13	04/24/15 10:13	1
2-Methylphenol	0.00050	U	0.0040	0.00017	mg/L		04/16/15 08:13	04/24/15 10:13	1
3 & 4 Methylphenol	0.0010	U	0.040	0.00080	mg/L		04/16/15 08:13	04/24/15 10:13	1
Nitrobenzene	0.00010	U	0.0040	0.000040	mg/L		04/16/15 08:13	04/24/15 10:13	1
Pentachlorophenol	0.0010	U	0.040	0.00027	mg/L		04/16/15 08:13	04/24/15 10:13	1
2,4,5-Trichlorophenol	0.00050	U	0.020	0.00030	mg/L		04/16/15 08:13	04/24/15 10:13	1
2,4,6-Trichlorophenol	0.00050	U	0.020	0.00024	mg/L		04/16/15 08:13	04/24/15 10:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*87*		*22 - 110*	*04/16/15 08:13*	*04/24/15 10:13*	*1*
2-Fluorophenol (Surr)	*46*		*10 - 110*	*04/16/15 08:13*	*04/24/15 10:13*	*1*
Nitrobenzene-d5 (Surr)	*82*		*29 - 111*	*04/16/15 08:13*	*04/24/15 10:13*	*1*
Phenol-d5 (Surr)	*74*		*10 - 110*	*04/16/15 08:13*	*04/24/15 10:13*	*1*
Terphenyl-d14 (Surr)	*84*		*40 - 119*	*04/16/15 08:13*	*04/24/15 10:13*	*1*
2,4,6-Tribromophenol (Surr)	*71*		*17 - 117*	*04/16/15 08:13*	*04/24/15 10:13*	*1*

Lab Sample ID: LCS 240-176654/9-A
Matrix: Solid
Analysis Batch: 177779

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 176654

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Pyridine	0.0800	0.0583		mg/L		73	10 - 110
1,4-Dichlorobenzene	0.0800	0.0633		mg/L		79	16 - 110
2,4-Dinitrotoluene	0.0800	0.0758		mg/L		95	45 - 126
Hexachlorobenzene	0.0800	0.0713		mg/L		89	47 - 116
Hexachlorobutadiene	0.0800	0.0619		mg/L		77	10 - 110
Hexachloroethane	0.0800	0.0620		mg/L		78	10 - 110
2-Methylphenol	0.0800	0.0627		mg/L		78	24 - 110
3 & 4 Methylphenol	0.0800	0.0651		mg/L		81	27 - 110
Nitrobenzene	0.0800	0.0686		mg/L		86	35 - 117
Pentachlorophenol	0.160	0.115		mg/L		72	12 - 110
2,4,5-Trichlorophenol	0.0800	0.0674		mg/L		84	35 - 111
2,4,6-Trichlorophenol	0.0800	0.0675		mg/L		84	32 - 110

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*85*		*22 - 110*
2-Fluorophenol (Surr)	*33*		*10 - 110*
Nitrobenzene-d5 (Surr)	*86*		*29 - 111*
Phenol-d5 (Surr)	*70*		*10 - 110*
Terphenyl-d14 (Surr)	*83*		*40 - 119*
2,4,6-Tribromophenol (Surr)	*97*		*17 - 117*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MRL 240-177779/17
Matrix: Solid
Analysis Batch: 177779

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	5.00	4.72		ng/uL		94	70 - 130
Acenaphthylene	5.00	4.86		ng/uL		97	70 - 130
Anthracene	5.00	4.94		ng/uL		99	70 - 130
Benzo[a]anthracene	5.00	4.85		ng/uL		97	70 - 130
Benzo[a]pyrene	5.00	4.94		ng/uL		99	70 - 130
Benzo[b]fluoranthene	5.00	4.72		ng/uL		94	70 - 130
Benzo[g,h,i]perylene	5.00	4.79		ng/uL		96	70 - 130
Benzoic acid	10.0	8.79	M	ng/uL		88	70 - 130
Benzo[k]fluoranthene	5.00	5.00		ng/uL		100	70 - 130
Benzyl alcohol	5.00	4.61		ng/uL		92	70 - 130
Bis(2-chloroethoxy)methane	5.00	5.01		ng/uL		100	70 - 130
Bis(2-chloroethyl)ether	5.00	4.69		ng/uL		94	70 - 130
bis (2-chloroisopropyl) ether	5.00	5.11		ng/uL		102	70 - 130
Bis(2-ethylhexyl) phthalate	5.00	5.02		ng/uL		100	70 - 130
4-Bromophenyl phenyl ether	5.00	5.21		ng/uL		104	70 - 130
Butyl benzyl phthalate	5.00	4.89		ng/uL		98	70 - 130
Carbazole	5.00	4.94		ng/uL		99	70 - 130
4-Chloroaniline	5.00	5.20		ng/uL		104	70 - 130
Pyridine	5.00	4.55		ng/uL		91	70 - 130
4-Chloro-3-methylphenol	5.00	5.15		ng/uL		103	70 - 130
2-Chloronaphthalene	5.00	4.77		ng/uL		95	70 - 130
2-Chlorophenol	5.00	4.74		ng/uL		95	70 - 130
4-Chlorophenyl phenyl ether	5.00	4.89		ng/uL		98	70 - 130
Chrysene	5.00	4.88		ng/uL		98	70 - 130
Dibenz(a,h)anthracene	5.00	4.93		ng/uL		99	70 - 130
Dibenzofuran	5.00	4.99		ng/uL		100	70 - 130
1,2-Dichlorobenzene	5.00	4.99		ng/uL		100	70 - 130
1,3-Dichlorobenzene	5.00	4.83		ng/uL		97	70 - 130
1,4-Dichlorobenzene	5.00	4.85		ng/uL		97	70 - 130
3,3'-Dichlorobenzidine	10.0	9.15		ng/uL		91	70 - 130
2,4-Dichlorophenol	5.00	5.08		ng/uL		102	70 - 130
Diethyl phthalate	5.00	5.09		ng/uL		102	70 - 130
2,4-Dimethylphenol	5.00	5.00		ng/uL		100	70 - 130
Dimethyl phthalate	5.00	5.13		ng/uL		103	70 - 130
Di-n-butyl phthalate	5.00	5.03		ng/uL		101	70 - 130
4,6-Dinitro-2-methylphenol	10.0	4.42	^	ng/uL		44	70 - 130
2,4-Dinitrophenol	10.0	4.84	^	ng/uL		48	70 - 130
2,4-Dinitrotoluene	5.00	5.28		ng/uL		106	70 - 130
2,6-Dinitrotoluene	5.00	4.89		ng/uL		98	70 - 130
Di-n-octyl phthalate	5.00	5.02		ng/uL		100	70 - 130
Fluoranthene	5.00	4.93		ng/uL		99	70 - 130
Fluorene	5.00	4.98		ng/uL		100	70 - 130
Hexachlorobenzene	5.00	4.80		ng/uL		96	70 - 130
Hexachlorobutadiene	5.00	4.95		ng/uL		99	70 - 130
Hexachlorocyclopentadiene	5.00	2.69	^	ng/uL		54	70 - 130
Hexachloroethane	5.00	4.93		ng/uL		99	70 - 130
Indeno[1,2,3-cd]pyrene	5.00	4.96		ng/uL		99	70 - 130
Isophorone	5.00	4.99		ng/uL		100	70 - 130

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MRL 240-177779/17
Matrix: Solid
Analysis Batch: 177779

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	5.00	4.67		ng/uL		93	70 - 130
2-Methylphenol	5.00	4.98		ng/uL		100	70 - 130
3 & 4 Methylphenol	5.00	4.87		ng/uL		97	70 - 130
Naphthalene	5.00	4.87		ng/uL		97	70 - 130
2-Nitroaniline	5.00	5.10		ng/uL		102	70 - 130
3-Nitroaniline	5.00	5.26		ng/uL		105	70 - 130
4-Nitroaniline	5.00	4.71		ng/uL		94	70 - 130
Nitrobenzene	5.00	4.74		ng/uL		95	70 - 130
2-Nitrophenol	5.00	4.89		ng/uL		98	70 - 130
4-Nitrophenol	10.0	9.69		ng/uL		97	70 - 130
N-Nitrosodi-n-propylamine	5.00	4.92		ng/uL		98	70 - 130
N-Nitrosodiphenylamine	10.0	10.4		ng/uL		104	70 - 130
Pentachlorophenol	10.0	8.76		ng/uL		88	70 - 130
Phenanthrene	5.00	4.87		ng/uL		97	70 - 130
Phenol	5.00	4.91		ng/uL		98	70 - 130
Pyrene	5.00	4.90		ng/uL		98	70 - 130
1,2,4-Trichlorobenzene	5.00	4.91		ng/uL		98	70 - 130
2,4,5-Trichlorophenol	5.00	4.94		ng/uL		99	70 - 130
2,4,6-Trichlorophenol	5.00	5.14		ng/uL		103	70 - 130

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*95*		*70 - 130*
2-Fluorophenol (Surr)	*101*		*50 - 150*
Nitrobenzene-d5 (Surr)	*95*		*50 - 150*
Phenol-d5 (Surr)	*96*		*50 - 150*
Terphenyl-d14 (Surr)	*98*		*50 - 150*
2,4,6-Tribromophenol (Surr)	*113*		*50 - 150*

Lab Sample ID: MRL 240-177779/3
Matrix: Solid
Analysis Batch: 177779

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	5.00	4.82		ng/uL		96	70 - 130
Acenaphthylene	5.00	4.81		ng/uL		96	70 - 130
Anthracene	5.00	4.99		ng/uL		100	70 - 130
Benzo[a]anthracene	5.00	4.92		ng/uL		98	70 - 130
Benzo[a]pyrene	5.00	4.91		ng/uL		98	70 - 130
Benzo[b]fluoranthene	5.00	4.62		ng/uL		92	70 - 130
Benzo[g,h,i]perylene	5.00	4.94		ng/uL		99	70 - 130
Benzoic acid	10.0	9.82		ng/uL		98	70 - 130
Benzo[k]fluoranthene	5.00	5.27		ng/uL		105	70 - 130
Benzyl alcohol	5.00	5.12		ng/uL		102	70 - 130
Bis(2-chloroethoxy)methane	5.00	5.02		ng/uL		100	70 - 130
Bis(2-chloroethyl)ether	5.00	4.93		ng/uL		99	70 - 130
bis (2-chloroisopropyl) ether	5.00	5.36		ng/uL		107	70 - 130
Bis(2-ethylhexyl) phthalate	5.00	4.95		ng/uL		99	70 - 130
4-Bromophenyl phenyl ether	5.00	5.51		ng/uL		110	70 - 130

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MRL 240-177779/3
Matrix: Solid
Analysis Batch: 177779

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Butyl benzyl phthalate	5.00	4.76		ng/uL		95	70 - 130
Carbazole	5.00	5.16		ng/uL		103	70 - 130
4-Chloroaniline	5.00	4.85	M	ng/uL		97	70 - 130
Pyridine	5.00	4.95		ng/uL		99	70 - 130
4-Chloro-3-methylphenol	5.00	5.12		ng/uL		102	70 - 130
2-Chloronaphthalene	5.00	4.87		ng/uL		97	70 - 130
2-Chlorophenol	5.00	5.07		ng/uL		101	70 - 130
4-Chlorophenyl phenyl ether	5.00	5.04		ng/uL		101	70 - 130
Chrysene	5.00	5.00		ng/uL		100	70 - 130
Dibenz(a,h)anthracene	5.00	4.92		ng/uL		98	70 - 130
Dibenzofuran	5.00	4.87		ng/uL		97	70 - 130
1,2-Dichlorobenzene	5.00	5.33		ng/uL		107	70 - 130
1,3-Dichlorobenzene	5.00	5.18		ng/uL		104	70 - 130
1,4-Dichlorobenzene	5.00	5.28		ng/uL		106	70 - 130
3,3'-Dichlorobenzidine	10.0	9.74		ng/uL		97	70 - 130
2,4-Dichlorophenol	5.00	4.96		ng/uL		99	70 - 130
Diethyl phthalate	5.00	5.02		ng/uL		100	70 - 130
2,4-Dimethylphenol	5.00	4.92		ng/uL		98	70 - 130
Dimethyl phthalate	5.00	5.12		ng/uL		102	70 - 130
Di-n-butyl phthalate	5.00	5.36		ng/uL		107	70 - 130
4,6-Dinitro-2-methylphenol	10.0	10.3		ng/uL		103	70 - 130
2,4-Dinitrophenol	10.0	9.94		ng/uL		99	70 - 130
2,4-Dinitrotoluene	5.00	5.21		ng/uL		104	70 - 130
2,6-Dinitrotoluene	5.00	5.05		ng/uL		101	70 - 130
Di-n-octyl phthalate	5.00	4.79		ng/uL		96	70 - 130
Fluoranthene	5.00	5.18		ng/uL		104	70 - 130
Fluorene	5.00	4.86		ng/uL		97	70 - 130
Hexachlorobenzene	5.00	5.41		ng/uL		108	70 - 130
Hexachlorobutadiene	5.00	4.94		ng/uL		99	70 - 130
Hexachlorocyclopentadiene	5.00	4.97		ng/uL		99	70 - 130
Hexachloroethane	5.00	5.44		ng/uL		109	70 - 130
Indeno[1,2,3-cd]pyrene	5.00	4.86		ng/uL		97	70 - 130
Isophorone	5.00	4.85		ng/uL		97	70 - 130
2-Methylnaphthalene	5.00	4.74		ng/uL		95	70 - 130
2-Methylphenol	5.00	5.15		ng/uL		103	70 - 130
3 & 4 Methylphenol	5.00	5.07		ng/uL		101	70 - 130
Naphthalene	5.00	4.70		ng/uL		94	70 - 130
2-Nitroaniline	5.00	5.03		ng/uL		101	70 - 130
3-Nitroaniline	5.00	5.21		ng/uL		104	70 - 130
4-Nitroaniline	5.00	4.71		ng/uL		94	70 - 130
Nitrobenzene	5.00	4.76		ng/uL		95	70 - 130
2-Nitrophenol	5.00	5.00		ng/uL		100	70 - 130
4-Nitrophenol	10.0	10.0		ng/uL		100	70 - 130
N-Nitrosodi-n-propylamine	5.00	5.28		ng/uL		106	70 - 130
N-Nitrosodiphenylamine	10.0	11.0		ng/uL		110	70 - 130
Pentachlorophenol	10.0	9.10		ng/uL		91	70 - 130
Phenanthrene	5.00	4.96		ng/uL		99	70 - 130
Phenol	5.00	5.05		ng/uL		101	70 - 130

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MRL 240-177779/3
Matrix: Solid
Analysis Batch: 177779

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Pyrene	5.00	4.94		ng/uL		99	70 - 130
1,2,4-Trichlorobenzene	5.00	4.94		ng/uL		99	70 - 130
2,4,5-Trichlorophenol	5.00	5.05		ng/uL		101	70 - 130
2,4,6-Trichlorophenol	5.00	4.86		ng/uL		97	70 - 130

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*94*		*70 - 130*
2-Fluorophenol (Surr)	*107*		*50 - 150*
Nitrobenzene-d5 (Surr)	*97*		*50 - 150*
Phenol-d5 (Surr)	*99*		*50 - 150*
Terphenyl-d14 (Surr)	*98*		*50 - 150*
2,4,6-Tribromophenol (Surr)	*108*		*50 - 150*

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 240-176509/2-A
Matrix: Water
Analysis Batch: 176694

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 176509

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.050	U	0.050	0.018	ug/L		04/15/15 09:05	04/16/15 19:56	1
4,4'-DDE	0.050	U	0.050	0.012	ug/L		04/15/15 09:05	04/16/15 19:56	1
4,4'-DDT	0.050	U	0.050	0.017	ug/L		04/15/15 09:05	04/16/15 19:56	1
Aldrin	0.050	U	0.050	0.013	ug/L		04/15/15 09:05	04/16/15 19:56	1
alpha-BHC	0.050	U	0.050	0.014	ug/L		04/15/15 09:05	04/16/15 19:56	1
alpha-Chlordane	0.050	U	0.050	0.012	ug/L		04/15/15 09:05	04/16/15 19:56	1
beta-BHC	0.050	U	0.050	0.018	ug/L		04/15/15 09:05	04/16/15 19:56	1
delta-BHC	0.050	U	0.050	0.029	ug/L		04/15/15 09:05	04/16/15 19:56	1
Dieldrin	0.050	U	0.050	0.013	ug/L		04/15/15 09:05	04/16/15 19:56	1
Endosulfan I	0.050	U	0.050	0.016	ug/L		04/15/15 09:05	04/16/15 19:56	1
Endosulfan II	0.050	U	0.050	0.015	ug/L		04/15/15 09:05	04/16/15 19:56	1
Endosulfan sulfate	0.050	U	0.050	0.015	ug/L		04/15/15 09:05	04/16/15 19:56	1
Endrin	0.050	U	0.050	0.013	ug/L		04/15/15 09:05	04/16/15 19:56	1
Endrin aldehyde	0.050	U	0.050	0.018	ug/L		04/15/15 09:05	04/16/15 19:56	1
Endrin ketone	0.050	U	0.050	0.016	ug/L		04/15/15 09:05	04/16/15 19:56	1
gamma-BHC (Lindane)	0.050	U	0.050	0.013	ug/L		04/15/15 09:05	04/16/15 19:56	1
gamma-Chlordane	0.050	U	0.050	0.013	ug/L		04/15/15 09:05	04/16/15 19:56	1
Heptachlor	0.050	U	0.050	0.014	ug/L		04/15/15 09:05	04/16/15 19:56	1
Heptachlor epoxide	0.050	U	0.050	0.015	ug/L		04/15/15 09:05	04/16/15 19:56	1
Methoxychlor	0.050	U	0.10	0.013	ug/L		04/15/15 09:05	04/16/15 19:56	1
Toxaphene	2.0	U	2.0	0.20	ug/L		04/15/15 09:05	04/16/15 19:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*99*		*30 - 135*	*04/15/15 09:05*	*04/16/15 19:56*	*1*
DCB Decachlorobiphenyl	*96*		*30 - 135*	*04/15/15 09:05*	*04/16/15 19:56*	*1*
Tetrachloro-m-xylene	*84*		*25 - 140*	*04/15/15 09:05*	*04/16/15 19:56*	*1*
Tetrachloro-m-xylene	*84*		*25 - 140*	*04/15/15 09:05*	*04/16/15 19:56*	*1*

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 240-176509/3-A
Matrix: Water
Analysis Batch: 176694

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 176509

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	0.500	0.579		ug/L		116	25 - 150
4,4'-DDE	0.500	0.518		ug/L		104	35 - 140
4,4'-DDT	0.500	0.561		ug/L		112	45 - 140
Aldrin	0.500	0.452		ug/L		90	25 - 140
alpha-BHC	0.500	0.496		ug/L		99	60 - 130
alpha-Chlordane	0.500	0.482		ug/L		96	65 - 125
beta-BHC	0.500	0.476		ug/L		95	65 - 125
delta-BHC	0.500	0.511		ug/L		102	45 - 135
Dieldrin	0.500	0.506		ug/L		101	60 - 130
Endosulfan I	0.500	0.358		ug/L		72	50 - 110
Endosulfan II	0.500	0.399		ug/L		80	30 - 130
Endosulfan sulfate	0.500	0.487		ug/L		97	55 - 135
Endrin	0.500	0.530		ug/L		106	55 - 135
Endrin aldehyde	0.500	0.479		ug/L		96	55 - 135
Endrin ketone	0.500	0.458		ug/L		92	75 - 125
gamma-BHC (Lindane)	0.500	0.498		ug/L		100	25 - 135
gamma-Chlordane	0.500	0.491		ug/L		98	60 - 125
Heptachlor	0.500	0.509		ug/L		102	40 - 130
Heptachlor epoxide	0.500	0.485		ug/L		97	60 - 130
Methoxychlor	0.500	0.534		ug/L		107	55 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*92*		*30 - 135*
DCB Decachlorobiphenyl	*93*		*30 - 135*
Tetrachloro-m-xylene	*91*		*25 - 140*
Tetrachloro-m-xylene	*88*		*25 - 140*

Lab Sample ID: MB 240-176661/5-A
Matrix: Solid
Analysis Batch: 177258

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 176661

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*78*		*44 - 144*	*04/16/15 08:22*	*04/22/15 05:39*	*1*
DCB Decachlorobiphenyl	*82*		*44 - 144*	*04/16/15 08:22*	*04/22/15 05:39*	*1*
Tetrachloro-m-xylene	*83*		*44 - 127*	*04/16/15 08:22*	*04/22/15 05:39*	*1*
Tetrachloro-m-xylene	*80*		*44 - 127*	*04/16/15 08:22*	*04/22/15 05:39*	*1*

Lab Sample ID: LCS 240-176661/6-A
Matrix: Solid
Analysis Batch: 177258

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 176661

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Endrin	0.00200	0.00208	J D	mg/L		104	56 - 144
gamma-BHC (Lindane)	0.00200	0.00186	J D	mg/L		93	60 - 139
Heptachlor	0.00200	0.00191	J D	mg/L		96	65 - 123
Heptachlor epoxide	0.00200	0.00195	J D	mg/L		98	62 - 141
Methoxychlor	0.00400	0.00347	J D	mg/L		87	52 - 138

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 240-176661/6-A
Matrix: Solid
Analysis Batch: 177258

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 176661

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	102		44 - 144
DCB Decachlorobiphenyl	101		44 - 144
Tetrachloro-m-xylene	89		44 - 127
Tetrachloro-m-xylene	87		44 - 127

Lab Sample ID: MRL 240-176694/16
Matrix: Water
Analysis Batch: 176694

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	5.00	5.13		ug/L		103	70 - 130
4,4'-DDD	5.00	5.09		ug/L		102	70 - 130
4,4'-DDE	5.00	4.76		ug/L		95	70 - 130
4,4'-DDE	5.00	5.08		ug/L		102	70 - 130
4,4'-DDT	5.00	4.74		ug/L		95	70 - 130
4,4'-DDT	5.00	4.80		ug/L		96	70 - 130
Aldrin	5.00	5.06		ug/L		101	70 - 130
Aldrin	5.00	5.14		ug/L		103	70 - 130
alpha-BHC	5.00	4.81		ug/L		96	70 - 130
alpha-BHC	5.00	4.86		ug/L		97	70 - 130
alpha-Chlordane	5.00	5.25		ug/L		105	70 - 130
alpha-Chlordane	5.00	5.37		ug/L		107	70 - 130
beta-BHC	5.00	5.62		ug/L		112	70 - 130
beta-BHC	5.00	5.74		ug/L		115	70 - 130
delta-BHC	5.00	4.71		ug/L		94	70 - 130
delta-BHC	5.00	4.80		ug/L		96	70 - 130
Dieldrin	5.00	5.19		ug/L		104	70 - 130
Dieldrin	5.00	5.30		ug/L		106	70 - 130
Endosulfan I	5.00	5.38		ug/L		108	70 - 130
Endosulfan I	5.00	5.52		ug/L		110	70 - 130
Endosulfan II	5.00	5.84		ug/L		117	70 - 130
Endosulfan II	5.00	5.86		ug/L		117	70 - 130
Endosulfan sulfate	5.00	5.75		ug/L		115	70 - 130
Endosulfan sulfate	5.00	5.68		ug/L		114	70 - 130
Endrin	5.00	5.53		ug/L		111	70 - 130
Endrin	5.00	5.58		ug/L		112	70 - 130
Endrin aldehyde	5.00	5.72		ug/L		114	70 - 130
Endrin aldehyde	5.00	5.74		ug/L		115	70 - 130
Endrin ketone	5.00	5.65		ug/L		113	70 - 130
Endrin ketone	5.00	5.57		ug/L		111	70 - 130
gamma-BHC (Lindane)	5.00	4.98		ug/L		100	70 - 130
gamma-BHC (Lindane)	5.00	5.02		ug/L		100	70 - 130
gamma-Chlordane	5.00	5.14		ug/L		103	70 - 130
gamma-Chlordane	5.00	5.34		ug/L		107	70 - 130
Heptachlor	5.00	5.41		ug/L		108	70 - 130
Heptachlor	5.00	5.51		ug/L		110	70 - 130
Heptachlor epoxide	5.00	5.41		ug/L		108	70 - 130
Heptachlor epoxide	5.00	5.51		ug/L		110	70 - 130

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MRL 240-176694/16
Matrix: Water
Analysis Batch: 176694

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Methoxychlor	5.00	6.05		ug/L		121	70 - 130
Methoxychlor	5.00	5.80		ug/L		116	70 - 130

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
DCB Decachlorobiphenyl	*125*		*50 - 150*
DCB Decachlorobiphenyl	*120*		*50 - 150*
Tetrachloro-m-xylene	*107*		*50 - 150*
Tetrachloro-m-xylene	*109*		*50 - 150*

Lab Sample ID: MRL 240-176694/31
Matrix: Water
Analysis Batch: 176694

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	5.00	6.17		ug/L		123	70 - 130
4,4'-DDD	5.00	5.65		ug/L		113	70 - 130
4,4'-DDE	5.00	5.51		ug/L		110	70 - 130
4,4'-DDE	5.00	5.34		ug/L		107	70 - 130
4,4'-DDT	5.00	4.83		ug/L		97	70 - 130
4,4'-DDT	5.00	4.70		ug/L		94	70 - 130
Aldrin	5.00	5.30		ug/L		106	70 - 130
Aldrin	5.00	5.32		ug/L		106	70 - 130
alpha-BHC	5.00	5.15		ug/L		103	70 - 130
alpha-BHC	5.00	5.11		ug/L		102	70 - 130
alpha-Chlordane	5.00	5.51		ug/L		110	70 - 130
alpha-Chlordane	5.00	5.53		ug/L		111	70 - 130
beta-BHC	5.00	6.09		ug/L		122	70 - 130
beta-BHC	5.00	5.96		ug/L		119	70 - 130
delta-BHC	5.00	5.27		ug/L		105	70 - 130
delta-BHC	5.00	5.15		ug/L		103	70 - 130
Dieldrin	5.00	5.46		ug/L		109	70 - 130
Dieldrin	5.00	5.37		ug/L		107	70 - 130
Endosulfan I	5.00	5.72		ug/L		114	70 - 130
Endosulfan I	5.00	5.72		ug/L		114	70 - 130
Endosulfan II	5.00	5.88		ug/L		118	70 - 130
Endosulfan II	5.00	5.73		ug/L		115	70 - 130
Endosulfan sulfate	5.00	6.01		ug/L		120	70 - 130
Endosulfan sulfate	5.00	5.74		ug/L		115	70 - 130
Endrin	5.00	5.81		ug/L		116	70 - 130
Endrin	5.00	5.65		ug/L		113	70 - 130
Endrin aldehyde	5.00	6.02		ug/L		120	70 - 130
Endrin aldehyde	5.00	5.80		ug/L		116	70 - 130
Endrin ketone	5.00	5.79		ug/L		116	70 - 130
Endrin ketone	5.00	5.56		ug/L		111	70 - 130
gamma-BHC (Lindane)	5.00	5.33		ug/L		107	70 - 130
gamma-BHC (Lindane)	5.00	5.27		ug/L		105	70 - 130
gamma-Chlordane	5.00	5.43		ug/L		109	70 - 130
gamma-Chlordane	5.00	5.52		ug/L		110	70 - 130

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MRL 240-176694/31
Matrix: Water
Analysis Batch: 176694

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Heptachlor	5.00	5.76		ug/L		115	70 - 130
Heptachlor	5.00	5.81		ug/L		116	70 - 130
Heptachlor epoxide	5.00	5.71		ug/L		114	70 - 130
Heptachlor epoxide	5.00	5.72		ug/L		114	70 - 130
Methoxychlor	5.00	6.22		ug/L		124	70 - 130
Methoxychlor	5.00	5.73		ug/L		115	70 - 130

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
DCB Decachlorobiphenyl	*126*		*50 - 150*
DCB Decachlorobiphenyl	*123*		*50 - 150*
Tetrachloro-m-xylene	*112*		*50 - 150*
Tetrachloro-m-xylene	*112*		*50 - 150*

Lab Sample ID: MRL 240-177258/31
Matrix: Solid
Analysis Batch: 177258

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Endrin	5.00	5.75		ug/L		115	70 - 130
Endrin	5.00	5.81		ug/L		116	70 - 130
gamma-BHC (Lindane)	5.00	5.48		ug/L		110	70 - 130
gamma-BHC (Lindane)	5.00	5.54		ug/L		111	70 - 130
Heptachlor	5.00	5.88		ug/L		118	70 - 130
Heptachlor	5.00	6.12		ug/L		122	70 - 130
Heptachlor epoxide	5.00	5.86		ug/L		117	70 - 130
Heptachlor epoxide	5.00	6.00		ug/L		120	70 - 130
Methoxychlor	5.00	5.97		ug/L		119	70 - 130
Methoxychlor	5.00	6.05		ug/L		121	70 - 130

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
DCB Decachlorobiphenyl	*123*		*50 - 150*
DCB Decachlorobiphenyl	*123*		*50 - 150*
Tetrachloro-m-xylene	*116*		*50 - 150*
Tetrachloro-m-xylene	*120*		*50 - 150*

Lab Sample ID: MRL 240-177258/49
Matrix: Solid
Analysis Batch: 177258

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Endrin	5.00	5.61		ug/L		112	70 - 130
Endrin	5.00	5.42		ug/L		108	70 - 130
gamma-BHC (Lindane)	5.00	5.36		ug/L		107	70 - 130
gamma-BHC (Lindane)	5.00	5.46		ug/L		109	70 - 130
Heptachlor	5.00	5.73		ug/L		115	70 - 130
Heptachlor	5.00	5.96		ug/L		119	70 - 130
Heptachlor epoxide	5.00	5.76		ug/L		115	70 - 130
Heptachlor epoxide	5.00	5.86		ug/L		117	70 - 130

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MRL 240-177258/49
Matrix: Solid
Analysis Batch: 177258

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits		
Methoxychlor			5.00	4.23		ug/L		85	70 - 130		
Methoxychlor			5.00	3.94		ug/L		79	70 - 130		

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
DCB Decachlorobiphenyl	*116*		*50 - 150*
DCB Decachlorobiphenyl	*117*		*50 - 150*
Tetrachloro-m-xylene	*117*		*50 - 150*
Tetrachloro-m-xylene	*118*		*50 - 150*

Lab Sample ID: MB 240-177491/3-A
Matrix: Water
Analysis Batch: 178086

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 177491

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	0.0012	U	0.030	0.00014	mg/L		04/22/15 15:15	04/27/15 16:16	1
Endrin	0.00012	U	0.010	0.000013	mg/L		04/22/15 15:15	04/27/15 16:16	1
gamma-BHC (Lindane)	0.00012	U	0.010	0.000013	mg/L		04/22/15 15:15	04/27/15 16:16	1
Heptachlor	0.00012	U	0.010	0.000014	mg/L		04/22/15 15:15	04/27/15 16:16	1
Heptachlor epoxide	0.00012	U	0.010	0.000015	mg/L		04/22/15 15:15	04/27/15 16:16	1
Methoxychlor	0.0000237	J	0.030	0.000013	mg/L		04/22/15 15:15	04/27/15 16:16	1
Toxaphene	0.0048	U	0.50	0.00020	mg/L		04/22/15 15:15	04/27/15 16:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*98*		*44 - 144*	*04/22/15 15:15*	*04/27/15 16:16*	*1*
DCB Decachlorobiphenyl	*98*		*44 - 144*	*04/22/15 15:15*	*04/27/15 16:16*	*1*
Tetrachloro-m-xylene	*79*		*44 - 127*	*04/22/15 15:15*	*04/27/15 16:16*	*1*
Tetrachloro-m-xylene	*78*		*44 - 127*	*04/22/15 15:15*	*04/27/15 16:16*	*1*

Lab Sample ID: LCS 240-177491/4-A
Matrix: Water
Analysis Batch: 178086

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 177491

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Endrin			0.00200	0.00209	J D	mg/L		104	56 - 144		
gamma-BHC (Lindane)			0.00200	0.00167	J D	mg/L		84	60 - 139		
Heptachlor			0.00200	0.00181	J D	mg/L		91	65 - 123		
Heptachlor epoxide			0.00200	0.00191	J D	mg/L		96	62 - 141		
Methoxychlor			0.00400	0.00403	J D	mg/L		101	52 - 138		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*108*		*44 - 144*
DCB Decachlorobiphenyl	*105*		*44 - 144*
Tetrachloro-m-xylene	*72*		*44 - 127*
Tetrachloro-m-xylene	*71*		*44 - 127*

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MRL 240-178086/12
Matrix: Water
Analysis Batch: 178086

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Endrin	5.00	4.63		ug/L		93	70 - 130
Endrin	5.00	4.62		ug/L		92	70 - 130
gamma-BHC (Lindane)	5.00	5.09		ug/L		102	70 - 130
gamma-BHC (Lindane)	5.00	5.14		ug/L		103	70 - 130
Heptachlor	5.00	5.21		ug/L		104	70 - 130
Heptachlor	5.00	5.42		ug/L		108	70 - 130
Heptachlor epoxide	5.00	5.45		ug/L		109	70 - 130
Heptachlor epoxide	5.00	5.54		ug/L		111	70 - 130
Methoxychlor	5.00	5.00		ug/L		100	70 - 130
Methoxychlor	5.00	5.12		ug/L		102	70 - 130

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
DCB Decachlorobiphenyl	*101*		*50 - 150*
DCB Decachlorobiphenyl	*101*		*50 - 150*
Tetrachloro-m-xylene	*109*		*50 - 150*
Tetrachloro-m-xylene	*113*		*50 - 150*

Lab Sample ID: MRL 240-178086/19
Matrix: Water
Analysis Batch: 178086

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Endrin	5.00	5.60		ug/L		112	70 - 130
Endrin	5.00	5.47		ug/L		109	70 - 130
gamma-BHC (Lindane)	5.00	4.98		ug/L		100	70 - 130
gamma-BHC (Lindane)	5.00	4.91		ug/L		98	70 - 130
Heptachlor	5.00	5.61		ug/L		112	70 - 130
Heptachlor	5.00	5.65		ug/L		113	70 - 130
Heptachlor epoxide	5.00	5.64		ug/L		113	70 - 130
Heptachlor epoxide	5.00	5.60		ug/L		112	70 - 130
Methoxychlor	5.00	6.15		ug/L		123	70 - 130
Methoxychlor	5.00	5.77		ug/L		115	70 - 130

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
DCB Decachlorobiphenyl	*119*		*50 - 150*
DCB Decachlorobiphenyl	*115*		*50 - 150*
Tetrachloro-m-xylene	*112*		*50 - 150*
Tetrachloro-m-xylene	*115*		*50 - 150*

Lab Sample ID: 240-49236-2 MS
Matrix: Water
Analysis Batch: 178086

Client Sample ID: 079SB-0384-0001-IDW
Prep Type: TCLP
Prep Batch: 177491

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Endrin	0.00015	U Q J	0.00250	0.000411	D Q J	mg/L		16	50 - 150
gamma-BHC (Lindane)	0.00015	U Q	0.00250	0.00157	J D Q	mg/L		63	50 - 150
Heptachlor	0.00015	U Q J	0.00250	0.000356	D Q J	mg/L		14	50 - 150

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 240-49236-2 MS | **Client Sample ID: 079SB-0384-0001-IDW**
Matrix: Water | **Prep Type: TCLP**
Analysis Batch: 178086 | **Prep Batch: 177491**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Heptachlor epoxide	0.00015	U Q J	0.00250	0.000591	D Q J	mg/L		24	50 - 150
Methoxychlor	0.00015	U Q J	0.00500	0.00106	D Q J	mg/L		21	50 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*2*	*Q*	*44 - 144*
DCB Decachlorobiphenyl	*2*	*Q*	*44 - 144*
Tetrachloro-m-xylene	*34*	*Q*	*44 - 127*
Tetrachloro-m-xylene	*26*	*Q*	*44 - 127*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-176083/3-A | **Client Sample ID: Method Blank**
Matrix: Water | **Prep Type: Total/NA**
Analysis Batch: 176376 | **Prep Batch: 176083**

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1221	0.20	U	0.50	0.13	ug/L		04/13/15 06:11	04/14/15 14:21	1
Aroclor-1016	0.20	U	0.50	0.17	ug/L		04/13/15 06:11	04/14/15 14:21	1
Aroclor-1232	0.20	U	0.50	0.16	ug/L		04/13/15 06:11	04/14/15 14:21	1
Aroclor-1242	0.40	U	0.50	0.22	ug/L		04/13/15 06:11	04/14/15 14:21	1
Aroclor-1248	0.20	U	0.50	0.10	ug/L		04/13/15 06:11	04/14/15 14:21	1
Aroclor-1254	0.20	U	0.50	0.16	ug/L		04/13/15 06:11	04/14/15 14:21	1
Aroclor-1260	0.20	U	0.50	0.17	ug/L		04/13/15 06:11	04/14/15 14:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*40 - 140*	*04/13/15 06:11*	*04/14/15 14:21*	*1*
Tetrachloro-m-xylene	*70*		*40 - 140*	*04/13/15 06:11*	*04/14/15 14:21*	*1*
DCB Decachlorobiphenyl	*90*		*40 - 135*	*04/13/15 06:11*	*04/14/15 14:21*	*1*
DCB Decachlorobiphenyl	*88*		*40 - 135*	*04/13/15 06:11*	*04/14/15 14:21*	*1*

Lab Sample ID: LCS 240-176083/4-A | **Client Sample ID: Lab Control Sample**
Matrix: Water | **Prep Type: Total/NA**
Analysis Batch: 176376 | **Prep Batch: 176083**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016			5.00	4.08		ug/L		82	25 - 145
Aroclor-1260			5.00	4.42		ug/L		88	30 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*74*		*40 - 140*
Tetrachloro-m-xylene	*82*		*40 - 140*
DCB Decachlorobiphenyl	*70*		*40 - 135*
DCB Decachlorobiphenyl	*69*		*40 - 135*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MRL 240-176376/10
Matrix: Water
Analysis Batch: 176376

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	0.0500	0.0539		ng/uL		108	70 - 130
Aroclor-1016	0.0500	0.0572		ng/uL		114	70 - 130
Aroclor-1260	0.0500	0.0552		ng/uL		110	70 - 130
Aroclor-1260	0.0500	0.0563		ng/uL		113	70 - 130

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
Tetrachloro-m-xylene	*119*		*50 - 150*
Tetrachloro-m-xylene	*111*		*50 - 150*
DCB Decachlorobiphenyl	*120*		*50 - 150*
DCB Decachlorobiphenyl	*130*		*50 - 150*

Lab Sample ID: MRL 240-176376/4
Matrix: Water
Analysis Batch: 176376

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	0.0500	0.0541		ng/uL		108	70 - 130
Aroclor-1260	0.0500	0.0543		ng/uL		109	70 - 130

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
Tetrachloro-m-xylene	*104*		*50 - 150*
Tetrachloro-m-xylene	*111*		*50 - 150*
DCB Decachlorobiphenyl	*111*		*50 - 150*
DCB Decachlorobiphenyl	*118*		*50 - 150*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 240-176663/5-A
Matrix: Solid
Analysis Batch: 177320

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 176663

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	0.0040	U	0.50	0.0019	mg/L		04/16/15 08:24	04/21/15 22:05	1
Silvex (2,4,5-TP)	0.00020	U	0.10	0.00027	mg/L		04/16/15 08:24	04/21/15 22:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*94*		*37 - 116*	*04/16/15 08:24*	*04/21/15 22:05*	*1*
2,4-Dichlorophenylacetic acid	*72*		*37 - 116*	*04/16/15 08:24*	*04/21/15 22:05*	*1*

Lab Sample ID: LCS 240-176663/6-A
Matrix: Solid
Analysis Batch: 177320

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 176663

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-D	0.0200	0.0132	J	mg/L		66	35 - 136
Silvex (2,4,5-TP)	0.00500	0.00346	J	mg/L		69	46 - 112

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: LCS 240-176663/6-A
Matrix: Solid
Analysis Batch: 177320

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 176663

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4-Dichlorophenylacetic acid	88		37 - 116
2,4-Dichlorophenylacetic acid	90		37 - 116

Lab Sample ID: MRL 240-177320/15
Matrix: Solid
Analysis Batch: 177320

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits		
2,4-D			0.0200	0.0231	J	ng/uL		115	70 - 130		
2,4-D			0.0200	0.0261	J ^	ng/uL		131	70 - 130		
Silvex (2,4,5-TP)			0.00500	0.00555	J	ng/uL		111	70 - 130		
Silvex (2,4,5-TP)			0.00500	0.00562	J	ng/uL		112	70 - 130		

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2,4-Dichlorophenylacetic acid	147		37 - 116
2,4-Dichlorophenylacetic acid	113		37 - 116

Lab Sample ID: MRL 240-177320/7
Matrix: Solid
Analysis Batch: 177320

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits		
2,4-D			0.0200	0.0202	J	ng/uL		101	70 - 130		
2,4-D			0.0200	0.0219	J	ng/uL		109	70 - 130		
Silvex (2,4,5-TP)			0.00500	0.00497	J	ng/uL		99	70 - 130		
Silvex (2,4,5-TP)			0.00500	0.00471	J	ng/uL		94	70 - 130		

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2,4-Dichlorophenylacetic acid	103		37 - 116
2,4-Dichlorophenylacetic acid	108		37 - 116

Lab Sample ID: 240-49236-1 MS
Matrix: Solid
Analysis Batch: 177320

Client Sample ID: 079SB-0383-0001-IDW
Prep Type: TCLP
Prep Batch: 176663

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,4-D	0.0040	U	0.0200	0.0141	J	mg/L		71	54 - 114		
Silvex (2,4,5-TP)	0.00020	U	0.00500	0.00371	J	mg/L		74	52 - 124		

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4-Dichlorophenylacetic acid	81		37 - 116
2,4-Dichlorophenylacetic acid	78		37 - 116

Method: 8330 Modified - Nitroguanidine (HPLC)

Lab Sample ID: MB 320-71039/1-A
Matrix: Water
Analysis Batch: 71582

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71039

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Nitroguanidine	6.0	U	20	2.4	ug/L		04/13/15 19:24	04/20/15 16:30	1

Lab Sample ID: LCS 320-71039/2-A
Matrix: Water
Analysis Batch: 71582

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71039

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitroguanidine	250	195		ug/L		78	73 - 117

Lab Sample ID: 240-49236-3 MS
Matrix: Water
Analysis Batch: 71582

Client Sample ID: 079SB-0385-0001-SW
Prep Type: Total/NA
Prep Batch: 71039

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitroguanidine	6.0	U	250	206		ug/L		82	73 - 117

Lab Sample ID: 240-49236-3 MSD
Matrix: Water
Analysis Batch: 71582

Client Sample ID: 079SB-0385-0001-SW
Prep Type: Total/NA
Prep Batch: 71039

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitroguanidine	6.0	U	250	206		ug/L		83	73 - 117	0	15

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 320-70962/1-A
Matrix: Water
Analysis Batch: 71173

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 70962

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	0.050	U	0.10	0.031	ug/L		04/13/15 09:25	04/15/15 17:15	1
1,3-Dinitrobenzene	0.10	U	0.10	0.050	ug/L		04/13/15 09:25	04/15/15 17:15	1
2,4,6-Trinitrotoluene	0.10	U	0.10	0.050	ug/L		04/13/15 09:25	04/15/15 17:15	1
2,4-Dinitrotoluene	0.10	U	0.10	0.050	ug/L		04/13/15 09:25	04/15/15 17:15	1
2,6-Dinitrotoluene	0.10	U	0.10	0.050	ug/L		04/13/15 09:25	04/15/15 17:15	1
2-Amino-4,6-dinitrotoluene	0.10	U	0.20	0.015	ug/L		04/13/15 09:25	04/15/15 17:15	1
2-Nitrotoluene	0.10	U	0.50	0.088	ug/L		04/13/15 09:25	04/15/15 17:15	1
3-Nitrotoluene	0.10	U	0.50	0.057	ug/L		04/13/15 09:25	04/15/15 17:15	1
4-Nitrotoluene	0.10	U	0.50	0.088	ug/L		04/13/15 09:25	04/15/15 17:15	1
4-Amino-2,6-dinitrotoluene	0.10	U	0.10	0.050	ug/L		04/13/15 09:25	04/15/15 17:15	1
HMX	0.050	U	0.10	0.036	ug/L		04/13/15 09:25	04/15/15 17:15	1
RDX	0.050	U	0.10	0.036	ug/L		04/13/15 09:25	04/15/15 17:15	1
Nitrobenzene	0.10	U	0.10	0.050	ug/L		04/13/15 09:25	04/15/15 17:15	1
Tetryl	0.10	U	0.10	0.050	ug/L		04/13/15 09:25	04/15/15 17:15	1
Nitroglycerin	0.50	U	0.65	0.33	ug/L		04/13/15 09:25	04/15/15 17:15	1
PETN	0.50	U	0.65	0.30	ug/L		04/13/15 09:25	04/15/15 17:15	1

Method: 8330B - Nitroaromatics and Nitramines (HPLC) (Continued)

Lab Sample ID: MB 320-70962/1-A
Matrix: Water
Analysis Batch: 71173

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 70962

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
3,4-Dinitrotoluene	92		79 - 111	04/13/15 09:25	04/15/15 17:15	1

Lab Sample ID: LCS 320-70962/2-A
Matrix: Water
Analysis Batch: 71173

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 70962

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3,5-Trinitrobenzene	1.00	1.06		ug/L		106	74 - 120
1,3-Dinitrobenzene	1.00	1.07		ug/L		107	72 - 123
2,4,6-Trinitrotoluene	1.00	1.03		ug/L		103	69 - 111
2,4-Dinitrotoluene	1.00	1.02		ug/L		102	70 - 119
2,6-Dinitrotoluene	1.00	1.02		ug/L		102	71 - 119
2-Amino-4,6-dinitrotoluene	1.00	1.03		ug/L		103	77 - 123
2-Nitrotoluene	1.00	0.985		ug/L		98	64 - 120
3-Nitrotoluene	1.00	0.991		ug/L		99	67 - 114
4-Nitrotoluene	1.00	0.998		ug/L		100	67 - 115
4-Amino-2,6-dinitrotoluene	1.00	0.990		ug/L		99	68 - 113
HMX	1.00	1.05		ug/L		105	67 - 115
RDX	1.00	1.09		ug/L		109	68 - 122
Nitrobenzene	1.00	1.05		ug/L		105	69 - 119
Tetryl	1.00	1.03		ug/L		103	66 - 105
Nitroglycerin	5.00	5.38		ug/L		108	85 - 115
PETN	5.00	4.90		ug/L		98	84 - 117

Surrogate	LCS %Recovery	LCS Qualifier	Limits
3,4-Dinitrotoluene	95		79 - 111

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-176697/2-A
Matrix: Solid
Analysis Batch: 176918

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 176697

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0050	U	0.50	0.00092	mg/L		04/16/15 09:57	04/17/15 08:27	1
Arsenic	0.010	U	0.50	0.0029	mg/L		04/16/15 09:57	04/17/15 08:27	1
Barium	0.00189	J	10	0.0010	mg/L		04/16/15 09:57	04/17/15 08:27	1
Cadmium	0.0010	U	0.10	0.00014	mg/L		04/16/15 09:57	04/17/15 08:27	1
Chromium	0.000744	J	0.50	0.00055	mg/L		04/16/15 09:57	04/17/15 08:27	1
Lead	0.0050	U	0.50	0.0019	mg/L		04/16/15 09:57	04/17/15 08:27	1
Selenium	0.010	U	0.25	0.0040	mg/L		04/16/15 09:57	04/17/15 08:27	1

Lab Sample ID: LCS 240-176697/3-A
Matrix: Solid
Analysis Batch: 176918

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 176697

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	0.0500	0.0493	J	mg/L		99	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 240-176697/3-A
Matrix: Solid
Analysis Batch: 176918

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 176697

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	2.00	1.94		mg/L		97	80 - 120
Barium	2.00	1.83	J	mg/L		91	80 - 120
Cadmium	0.0500	0.0476	J	mg/L		95	80 - 120
Chromium	0.200	0.185	J	mg/L		92	80 - 120
Lead	0.500	0.449	J	mg/L		90	80 - 120
Selenium	2.00	1.96		mg/L		98	80 - 120

Lab Sample ID: LB 240-176620/1-B
Matrix: Solid
Analysis Batch: 176918

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 176697

Analyte	LB Result	LB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0050	U	0.50	0.00092	mg/L		04/16/15 09:57	04/17/15 08:22	1
Arsenic	0.00433	J	0.50	0.0029	mg/L		04/16/15 09:57	04/17/15 08:22	1
Barium	0.00472	J	10	0.0010	mg/L		04/16/15 09:57	04/17/15 08:22	1
Cadmium	0.0010	U	0.10	0.00014	mg/L		04/16/15 09:57	04/17/15 08:22	1
Chromium	0.00185	J	0.50	0.00055	mg/L		04/16/15 09:57	04/17/15 08:22	1
Lead	0.00212	J	0.50	0.0019	mg/L		04/16/15 09:57	04/17/15 08:22	1
Selenium	0.00653	J	0.25	0.0040	mg/L		04/16/15 09:57	04/17/15 08:22	1

Lab Sample ID: 240-49236-1 MS
Matrix: Solid
Analysis Batch: 176918

Client Sample ID: 079SB-0383-0001-IDW
Prep Type: TCLP
Prep Batch: 176697

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	0.0027	J	1.00	1.01	J D	mg/L		101	80 - 120
Barium	0.38	J	50.0	49.1	J D	mg/L		98	80 - 120
Cadmium	0.0010	J	1.00	1.00	D	mg/L		100	80 - 120
Chromium	0.0039	J	5.00	4.93	D	mg/L		99	80 - 120
Lead	0.022	J	5.00	4.85	D	mg/L		96	80 - 120

Lab Sample ID: 240-49236-1 MS
Matrix: Solid
Analysis Batch: 176918

Client Sample ID: 079SB-0383-0001-IDW
Prep Type: TCLP
Prep Batch: 176697

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.013	J D	5.00	5.10	D	mg/L		102	80 - 120
Selenium	0.018	J D	1.00	1.06	J D	mg/L		104	80 - 120

Lab Sample ID: 240-49236-1 DU
Matrix: Solid
Analysis Batch: 176918

Client Sample ID: 079SB-0383-0001-IDW
Prep Type: TCLP
Prep Batch: 176697

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Silver	0.0027	J	0.00285	J	mg/L		5	20
Barium	0.38	J	0.385	J	mg/L		1	20
Cadmium	0.0010	J	0.000918	J	mg/L		13	20
Chromium	0.0039	J	0.00359	J	mg/L		9	20
Lead	0.022	J	0.0226	J	mg/L		1	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 240-49236-1 DU
Matrix: Solid
Analysis Batch: 176918

Client Sample ID: 079SB-0383-0001-IDW
Prep Type: TCLP
Prep Batch: 176697

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	0.013	J D	0.0164	J D	mg/L		22	20
Selenium	0.018	J D	0.040	U	mg/L		NC	20

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 240-176157/1-A
Matrix: Water
Analysis Batch: 176490

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 176157

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.589	J	2.0	0.16	ug/L		04/13/15 10:08	04/14/15 11:09	1
Arsenic	0.744	J	5.0	0.18	ug/L		04/13/15 10:08	04/14/15 11:09	1
Barium	4.0	U	5.0	1.1	ug/L		04/13/15 10:08	04/14/15 11:09	1
Cadmium	0.592	J	2.0	0.061	ug/L		04/13/15 10:08	04/14/15 11:09	1
Calcium	1000	U	2000	240	ug/L		04/13/15 10:08	04/14/15 11:09	1
Chromium	1.20	J	6.0	0.20	ug/L		04/13/15 10:08	04/14/15 11:09	1
Cobalt	0.484	J	1.0	0.021	ug/L		04/13/15 10:08	04/14/15 11:09	1
Copper	1.17	J	4.0	0.75	ug/L		04/13/15 10:08	04/14/15 11:09	1
Iron	19.9	J	150	16	ug/L		04/13/15 10:08	04/14/15 11:09	1
Lead	0.367	J	1.0	0.11	ug/L		04/13/15 10:08	04/14/15 11:09	1
Magnesium	300	U	1000	48	ug/L		04/13/15 10:08	04/14/15 11:09	1
Nickel	0.413	J	5.0	0.23	ug/L		04/13/15 10:08	04/14/15 11:09	1
Potassium	150	U	1000	30	ug/L		04/13/15 10:08	04/14/15 11:09	1
Selenium	1.12	J	5.0	0.25	ug/L		04/13/15 10:08	04/14/15 11:09	1
Silver	0.25	U	1.0	0.020	ug/L		04/13/15 10:08	04/14/15 11:09	1
Sodium	400	U	1000	68	ug/L		04/13/15 10:08	04/14/15 11:09	1
Thallium	0.530	J	2.0	0.074	ug/L		04/13/15 10:08	04/14/15 11:09	1
Vanadium	0.515	J	5.0	0.23	ug/L		04/13/15 10:08	04/14/15 11:09	1
Zinc	50	U	50	7.3	ug/L		04/13/15 10:08	04/14/15 11:09	1

Lab Sample ID: MB 240-176157/1-A
Matrix: Water
Analysis Batch: 176660

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 176157

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	60	U	60	9.0	ug/L		04/13/15 10:08	04/15/15 12:59	1
Magnesium	300	U	1000	48	ug/L		04/13/15 10:08	04/15/15 12:59	1
Manganese	10	U	10	1.1	ug/L		04/13/15 10:08	04/15/15 12:59	1
Sodium	400	U	1000	68	ug/L		04/13/15 10:08	04/15/15 12:59	1

Lab Sample ID: MB 240-176157/1-A
Matrix: Water
Analysis Batch: 177115

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 176157

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.405	J	1.0	0.053	ug/L		04/13/15 10:08	04/20/15 17:25	1

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 240-176157/2-A
Matrix: Water
Analysis Batch: 176490

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 176157

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	100	108		ug/L		108	80 - 120
Arsenic	1000	991		ug/L		99	80 - 120
Barium	1000	1120		ug/L		112	80 - 120
Cadmium	1000	1140		ug/L		114	80 - 120
Calcium	10000	9020		ug/L		90	80 - 120
Chromium	1000	1060		ug/L		106	80 - 120
Cobalt	1000	1090		ug/L		109	80 - 120
Copper	1000	1110		ug/L		111	80 - 120
Iron	10000	10600		ug/L		106	80 - 120
Lead	1000	1030		ug/L		103	80 - 120
Magnesium	10000	10300		ug/L		103	80 - 120
Nickel	1000	1120		ug/L		112	80 - 120
Potassium	10000	10100		ug/L		101	80 - 120
Selenium	1000	996		ug/L		100	80 - 120
Silver	100	103		ug/L		103	80 - 120
Sodium	10000	10300		ug/L		103	80 - 120
Thallium	250	256		ug/L		103	80 - 120
Vanadium	1000	1040		ug/L		104	80 - 120
Zinc	1000	1120		ug/L		112	80 - 120

Lab Sample ID: LCS 240-176157/2-A
Matrix: Water
Analysis Batch: 176660

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 176157

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10000	9640		ug/L		96	80 - 120
Magnesium	10000	10200		ug/L		102	80 - 120
Manganese	1000	1040		ug/L		104	80 - 120
Sodium	10000	10100		ug/L		101	80 - 120

Lab Sample ID: LCS 240-176157/2-A
Matrix: Water
Analysis Batch: 177115

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 176157

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	1000	1100		ug/L		110	80 - 120

Lab Sample ID: 240-49236-3 MS
Matrix: Water
Analysis Batch: 176490

Client Sample ID: 079SB-0385-0001-SW
Prep Type: Total Recoverable
Prep Batch: 176157

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.43	J	100	103		ug/L		103	44 - 153
Arsenic	0.93	J	100	102		ug/L		101	82 - 123
Barium	18		100	119		ug/L		101	45 - 144
Cadmium	0.38	J	100	104		ug/L		103	78 - 117
Calcium	18000		10000	27900		ug/L		97	70 - 130
Chromium	1.3	J	100	103		ug/L		102	72 - 110
Cobalt	0.28	J	100	103		ug/L		103	67 - 114

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 240-49236-3 MS — **Client Sample ID: 079SB-0385-0001-SW**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 176490 — **Prep Batch: 176157**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	1.1	J	100	105		ug/L		104	60 - 123
Iron	30	J	10000	10200		ug/L		101	22 - 169
Lead	0.18	J	100	102		ug/L		102	73 - 115
Nickel	3.0	U	100	103		ug/L		103	72 - 111
Potassium	2700		10000	12500		ug/L		98	70 - 130
Selenium	0.62	J	100	97.8		ug/L		97	72 - 148
Silver	0.25	U	100	99.8		ug/L		100	10 - 139
Thallium	0.22	J	100	103		ug/L		103	69 - 117
Vanadium	0.35	J	100	100		ug/L		100	70 - 112
Zinc	50	U	100	108		ug/L		108	49 - 156

Lab Sample ID: 240-49236-3 MS — **Client Sample ID: 079SB-0385-0001-SW**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 176660 — **Prep Batch: 176157**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	60	U	10000	9410		ug/L		94	63 - 128
Manganese	10	U	100	98.3		ug/L		98	10 - 172
Sodium	43000		10000	51200	4	ug/L		83	80 - 120

Lab Sample ID: 240-49236-3 MS — **Client Sample ID: 079SB-0385-0001-SW**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 176660 — **Prep Batch: 176157**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Magnesium	31000	D	10000	39900	D	ug/L		88	70 - 130

Lab Sample ID: 240-49236-3 MS — **Client Sample ID: 079SB-0385-0001-SW**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 177115 — **Prep Batch: 176157**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	0.27	J	100	106		ug/L		106	77 - 124

Lab Sample ID: 240-49236-3 DU — **Client Sample ID: 079SB-0385-0001-SW**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 176490 — **Prep Batch: 176157**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	0.43	J	0.328	J	ug/L		26	20
Arsenic	0.93	J	0.877	J	ug/L		5	20
Barium	18		17.1		ug/L		8	20
Cadmium	0.38	J	0.302	J	ug/L		23	20
Calcium	18000		17100		ug/L		7	20
Chromium	1.3	J	1.16	J	ug/L		12	20
Cobalt	0.28	J	0.193	J	ug/L		35	20
Copper	1.1	J	0.965	J	ug/L		12	20
Iron	30	J	26.7	J	ug/L		11	20
Lead	0.18	J	0.144	J	ug/L		22	20

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 240-49236-3 DU — **Client Sample ID: 079SB-0385-0001-SW**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 176490 — **Prep Batch: 176157**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nickel	3.0	U	3.0	U	ug/L		NC	20
Potassium	2700		2540		ug/L		5	20
Selenium	0.62	J	0.651	J	ug/L		5	20
Silver	0.25	U	0.25	U	ug/L		NC	20
Thallium	0.22	J	0.111	J	ug/L		66	20
Vanadium	0.35	J	1.5	U	ug/L		NC	20
Zinc	50	U	50	U	ug/L		NC	20

Lab Sample ID: 240-49236-3 DU — **Client Sample ID: 079SB-0385-0001-SW**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 176660 — **Prep Batch: 176157**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	60	U	60	U	ug/L		NC	20
Manganese	10	U	10	U	ug/L		NC	20
Sodium	43000		40800		ug/L		5	20

Lab Sample ID: 240-49236-3 DU — **Client Sample ID: 079SB-0385-0001-SW**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 176660 — **Prep Batch: 176157**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Magnesium	31000	D	30400	D	ug/L		2	20

Lab Sample ID: 240-49236-3 DU — **Client Sample ID: 079SB-0385-0001-SW**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 177115 — **Prep Batch: 176157**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Beryllium	0.27	J	0.303	J	ug/L		11	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 240-176162/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 176385 — **Prep Batch: 176162**

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		04/13/15 14:00	04/14/15 10:54	1

Lab Sample ID: LCS 240-176162/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 176385 — **Prep Batch: 176162**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	4.67		ug/L		93	80 - 120

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: MB 240-176701/2-A
Matrix: Solid
Analysis Batch: 176894

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 176701

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	0.00020	U	0.0020	0.000090	mg/L		04/16/15 14:00	04/17/15 10:41	1

Lab Sample ID: LCS 240-176701/3-A
Matrix: Solid
Analysis Batch: 176894

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 176701

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hg	0.00500	0.00501		mg/L		100	50 - 150

Lab Sample ID: LB 240-176620/1-C
Matrix: Solid
Analysis Batch: 176894

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 176701

Analyte	LB Result	LB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	0.00020	U	0.0020	0.000090	mg/L		04/16/15 14:00	04/17/15 10:40	1

Lab Sample ID: 240-49236-1 MS
Matrix: Solid
Analysis Batch: 176894

Client Sample ID: 079SB-0383-0001-IDW
Prep Type: TCLP
Prep Batch: 176701

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Hg	0.00020	U	0.00500	0.00531		mg/L		106	50 - 150

Lab Sample ID: 240-49236-1 DU
Matrix: Solid
Analysis Batch: 176894

Client Sample ID: 079SB-0383-0001-IDW
Prep Type: TCLP
Prep Batch: 176701

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Hg	0.00020	U	0.00020	U	mg/L		NC	20

Method: 1010 - Ignitability, Pensky-Martens Closed-Cup Method

Lab Sample ID: LCS 240-176597/1
Matrix: Solid
Analysis Batch: 176597

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Flashpoint	81.0	83.00		Degrees F		102	97 - 103

Lab Sample ID: 240-49236-2 DU
Matrix: Water
Analysis Batch: 176597

Client Sample ID: 079SB-0384-0001-IDW
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Flashpoint	>200		>200		Degrees F		NC	20

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 240-176155/1-A
Matrix: Solid
Analysis Batch: 176246

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 176155

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.50	U	0.50	0.30	mg/Kg		04/13/15 09:56	04/13/15 14:24	1

Lab Sample ID: LCS 240-176155/2-A
Matrix: Solid
Analysis Batch: 176246

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 176155

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	9.21	9.00		mg/Kg		98	68 - 123

Lab Sample ID: MB 240-177636/1-A
Matrix: Water
Analysis Batch: 177730

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 177636

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.0050	U	0.010	0.0020	mg/L		04/23/15 11:18	04/23/15 14:31	1

Lab Sample ID: LCS 240-177636/2-A
Matrix: Water
Analysis Batch: 177730

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 177636

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0921	0.0719		mg/L		78	69 - 118

Lab Sample ID: MRL 240-177730/52
Matrix: Water
Analysis Batch: 177730

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0100	0.00964	J	mg/L		96	70 - 130

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 240-176308/14-A
Matrix: Water
Analysis Batch: 176391

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 176308

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	3.0	U	3.0	0.94	mg/L		04/14/15 08:03	04/14/15 13:05	1

Lab Sample ID: MB 240-176308/1-A
Matrix: Solid
Analysis Batch: 176391

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 176308

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	29	U	30	22	mg/Kg		04/14/15 08:03	04/14/15 12:28	1

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric) (Continued)

Lab Sample ID: LCS 240-176308/15-A
Matrix: Water
Analysis Batch: 176391

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 176308

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfide			8.86	7.39		mg/L		83	70 - 130		

Lab Sample ID: LCS 240-176308/2-A
Matrix: Solid
Analysis Batch: 176391

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 176308

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfide			87.9	77.2		mg/Kg		88	70 - 130		

Lab Sample ID: 240-49236-2 MS
Matrix: Water
Analysis Batch: 176391

Client Sample ID: 079SB-0384-0001-IDW
Prep Type: Total/NA
Prep Batch: 176308

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfide	3.0	U	8.86	7.39		mg/L		83	27 - 124		

Lab Sample ID: 240-49236-2 MSD
Matrix: Water
Analysis Batch: 176391

Client Sample ID: 079SB-0384-0001-IDW
Prep Type: Total/NA
Prep Batch: 176308

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfide	3.0	U	8.86	7.00		mg/L		79	27 - 124	5	20

Method: 9040C - pH

Lab Sample ID: LCS 240-176141/2
Matrix: Water
Analysis Batch: 176141

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Corrosivity			6.15	6.150		SU		100	97 - 103		

Method: 9045C - pH

Lab Sample ID: 240-49236-1 DU
Matrix: Solid
Analysis Batch: 176141

Client Sample ID: 079SB-0383-0001-IDW
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Corrosivity	6.26			6.490		SU				4	20

Method: WS-WC-0050 - Nitrocellulose

Lab Sample ID: MB 320-71147/1-B
Matrix: Water
Analysis Batch: 71741

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71630

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrocellulose	1.0	U	2.0	0.48	mg/L		04/21/15 06:08	04/21/15 14:49	1

Lab Sample ID: LCS 320-71147/2-B
Matrix: Water
Analysis Batch: 71741

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71630

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrocellulose	5.07	4.09		mg/L		81	26 - 144

Lab Sample ID: 240-49236-3 MS
Matrix: Water
Analysis Batch: 71741

Client Sample ID: 079SB-0385-0001-SW
Prep Type: Total/NA
Prep Batch: 71630

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrocellulose	1.0	U	5.07	3.89		mg/L		77	26 - 144

Lab Sample ID: 240-49236-3 MSD
Matrix: Water
Analysis Batch: 71741

Client Sample ID: 079SB-0385-0001-SW
Prep Type: Total/NA
Prep Batch: 71630

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrocellulose	1.0	U	5.07	4.57		mg/L		90	26 - 144	16	45

Lab Sample ID: MRL 320-71741/11
Matrix: Water
Analysis Batch: 71741

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrocellulose	0.417	1.0	U	mg/L		108	70 - 130

GC/MS VOA

Analysis Batch: 176298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-3	079SB-0385-0001-SW	Total/NA	Water	8260B	
240-49236-5	079SB-0387-0001-RB	Total/NA	Water	8260B	
240-49236-6	079SB-0388-0001-TB	Total/NA	Water	8260B	
LCS 240-176298/4	Lab Control Sample	Total/NA	Water	8260B	
MB 240-176298/6	Method Blank	Total/NA	Water	8260B	
MRL 240-176298/15	Lab Control Sample	Total/NA	Water	8260B	
MRL 240-176298/5	Lab Control Sample	Total/NA	Water	8260B	

Leach Batch: 176667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-1	079SB-0383-0001-IDW	TCLP	Solid	1311	
240-49236-2	079SB-0384-0001-IDW	TCLP	Water	1311	
240-49236-2 MS	079SB-0384-0001-IDW	TCLP	Water	1311	
240-49236-2 MSD	079SB-0384-0001-IDW	TCLP	Water	1311	
LB 240-176667/1-A MB	Method Blank	TCLP	Solid	1311	

Analysis Batch: 177316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-1	079SB-0383-0001-IDW	TCLP	Solid	8260B	176667
240-49236-2	079SB-0384-0001-IDW	TCLP	Water	8260B	176667
240-49236-2 MS	079SB-0384-0001-IDW	TCLP	Water	8260B	176667
240-49236-2 MSD	079SB-0384-0001-IDW	TCLP	Water	8260B	176667
LB 240-176667/1-A MB	Method Blank	TCLP	Solid	8260B	176667
LCS 240-177316/9	Lab Control Sample	Total/NA	Solid	8260B	
MRL 240-177316/14	Lab Control Sample	Total/NA	Solid	8260B	
MRL 240-177316/7	Lab Control Sample	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 176086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-3	079SB-0385-0001-SW	Total/NA	Water	3520C	
LCS 240-176086/3-A	Lab Control Sample	Total/NA	Water	3520C	
MB 240-176086/2-A	Method Blank	Total/NA	Water	3520C	

Leach Batch: 176620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-1	079SB-0383-0001-IDW	TCLP	Solid	1311	
240-49236-2	079SB-0384-0001-IDW	TCLP	Water	1311	

Prep Batch: 176654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-1	079SB-0383-0001-IDW	TCLP	Solid	3520C	176620
240-49236-2	079SB-0384-0001-IDW	TCLP	Water	3520C	176620
LCS 240-176654/9-A	Lab Control Sample	Total/NA	Solid	3520C	
MB 240-176654/8-A	Method Blank	Total/NA	Solid	3520C	

Analysis Batch: 177779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-1	079SB-0383-0001-IDW	TCLP	Solid	8270C	176654

GC/MS Semi VOA (Continued)

Analysis Batch: 177779 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-2	079SB-0384-0001-IDW	TCLP	Water	8270C	176654
240-49236-3	079SB-0385-0001-SW	Total/NA	Water	8270C	176086
LCS 240-176086/3-A	Lab Control Sample	Total/NA	Water	8270C	176086
LCS 240-176654/9-A	Lab Control Sample	Total/NA	Solid	8270C	176654
MB 240-176086/2-A	Method Blank	Total/NA	Water	8270C	176086
MB 240-176654/8-A	Method Blank	Total/NA	Solid	8270C	176654
MRL 240-177779/17	Lab Control Sample	Total/NA	Solid	8270C	
MRL 240-177779/3	Lab Control Sample	Total/NA	Solid	8270C	

GC Semi VOA

Prep Batch: 176083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-3	079SB-0385-0001-SW	Total/NA	Water	3520C	
LCS 240-176083/4-A	Lab Control Sample	Total/NA	Water	3520C	
MB 240-176083/3-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 176376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-3	079SB-0385-0001-SW	Total/NA	Water	8082	176083
LCS 240-176083/4-A	Lab Control Sample	Total/NA	Water	8082	176083
MB 240-176083/3-A	Method Blank	Total/NA	Water	8082	176083
MRL 240-176376/10	Lab Control Sample	Total/NA	Water	8082	
MRL 240-176376/4	Lab Control Sample	Total/NA	Water	8082	

Prep Batch: 176509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-3 - RE	079SB-0385-0001-SW	Total/NA	Water	3520C	
LCS 240-176509/3-A	Lab Control Sample	Total/NA	Water	3520C	
MB 240-176509/2-A	Method Blank	Total/NA	Water	3520C	

Leach Batch: 176620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-1	079SB-0383-0001-IDW	TCLP	Solid	1311	
240-49236-1 MS	079SB-0383-0001-IDW	TCLP	Solid	1311	
240-49236-2	079SB-0384-0001-IDW	TCLP	Water	1311	
240-49236-2 - RE	079SB-0384-0001-IDW	TCLP	Water	1311	
240-49236-2 MS	079SB-0384-0001-IDW	TCLP	Water	1311	

Prep Batch: 176661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-1	079SB-0383-0001-IDW	TCLP	Solid	3520C	176620
LCS 240-176661/6-A	Lab Control Sample	Total/NA	Solid	3520C	
MB 240-176661/5-A	Method Blank	Total/NA	Solid	3520C	

Prep Batch: 176663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-1	079SB-0383-0001-IDW	TCLP	Solid	8151A	176620
240-49236-1 MS	079SB-0383-0001-IDW	TCLP	Solid	8151A	176620
240-49236-2	079SB-0384-0001-IDW	TCLP	Water	8151A	176620

GC Semi VOA (Continued)

Prep Batch: 176663 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 240-176663/6-A	Lab Control Sample	Total/NA	Solid	8151A	
MB 240-176663/5-A	Method Blank	Total/NA	Solid	8151A	

Analysis Batch: 176694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-3 - RE	079SB-0385-0001-SW	Total/NA	Water	8081A	176509
LCS 240-176509/3-A	Lab Control Sample	Total/NA	Water	8081A	176509
MB 240-176509/2-A	Method Blank	Total/NA	Water	8081A	176509
MRL 240-176694/15	Lab Control Sample	Total/NA	Water	8081A	
MRL 240-176694/16	Lab Control Sample	Total/NA	Water	8081A	
MRL 240-176694/30	Lab Control Sample	Total/NA	Water	8081A	
MRL 240-176694/31	Lab Control Sample	Total/NA	Water	8081A	

Analysis Batch: 177258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-1	079SB-0383-0001-IDW	TCLP	Solid	8081A	176661
LCS 240-176661/6-A	Lab Control Sample	Total/NA	Solid	8081A	176661
MB 240-176661/5-A	Method Blank	Total/NA	Solid	8081A	176661
MRL 240-177258/29	Lab Control Sample	Total/NA	Solid	8081A	
MRL 240-177258/30	Lab Control Sample	Total/NA	Solid	8081A	
MRL 240-177258/31	Lab Control Sample	Total/NA	Solid	8081A	
MRL 240-177258/47	Lab Control Sample	Total/NA	Solid	8081A	
MRL 240-177258/48	Lab Control Sample	Total/NA	Solid	8081A	
MRL 240-177258/49	Lab Control Sample	Total/NA	Solid	8081A	

Analysis Batch: 177320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-1	079SB-0383-0001-IDW	TCLP	Solid	8151A	176663
240-49236-1 MS	079SB-0383-0001-IDW	TCLP	Solid	8151A	176663
240-49236-2	079SB-0384-0001-IDW	TCLP	Water	8151A	176663
LCS 240-176663/6-A	Lab Control Sample	Total/NA	Solid	8151A	176663
MB 240-176663/5-A	Method Blank	Total/NA	Solid	8151A	176663
MRL 240-177320/15	Lab Control Sample	Total/NA	Solid	8151A	
MRL 240-177320/7	Lab Control Sample	Total/NA	Solid	8151A	

Prep Batch: 177491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-2 - RE	079SB-0384-0001-IDW	TCLP	Water	3520C	176620
240-49236-2 MS	079SB-0384-0001-IDW	TCLP	Water	3520C	176620
LCS 240-177491/4-A	Lab Control Sample	Total/NA	Water	3520C	
MB 240-177491/3-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 178086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-2 - RE	079SB-0384-0001-IDW	TCLP	Water	8081A	177491
240-49236-2 MS	079SB-0384-0001-IDW	TCLP	Water	8081A	177491
LCS 240-177491/4-A	Lab Control Sample	Total/NA	Water	8081A	177491
MB 240-177491/3-A	Method Blank	Total/NA	Water	8081A	177491
MRL 240-178086/10	Lab Control Sample	Total/NA	Water	8081A	
MRL 240-178086/11	Lab Control Sample	Total/NA	Water	8081A	
MRL 240-178086/12	Lab Control Sample	Total/NA	Water	8081A	

GC Semi VOA (Continued)

Analysis Batch: 178086 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 240-178086/17	Lab Control Sample	Total/NA	Water	8081A	
MRL 240-178086/18	Lab Control Sample	Total/NA	Water	8081A	
MRL 240-178086/19	Lab Control Sample	Total/NA	Water	8081A	

HPLC/IC

Prep Batch: 70962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-3	079SB-0385-0001-SW	Total/NA	Water	8330-Prep	
LCS 320-70962/2-A	Lab Control Sample	Total/NA	Water	8330-Prep	
MB 320-70962/1-A	Method Blank	Total/NA	Water	8330-Prep	

Prep Batch: 71039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-3	079SB-0385-0001-SW	Total/NA	Water	Filtration	
240-49236-3 MS	079SB-0385-0001-SW	Total/NA	Water	Filtration	
240-49236-3 MSD	079SB-0385-0001-SW	Total/NA	Water	Filtration	
LCS 320-71039/2-A	Lab Control Sample	Total/NA	Water	Filtration	
MB 320-71039/1-A	Method Blank	Total/NA	Water	Filtration	

Analysis Batch: 71173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-3	079SB-0385-0001-SW	Total/NA	Water	8330B	70962
LCS 320-70962/2-A	Lab Control Sample	Total/NA	Water	8330B	70962
MB 320-70962/1-A	Method Blank	Total/NA	Water	8330B	70962

Analysis Batch: 71582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-3	079SB-0385-0001-SW	Total/NA	Water	8330 Modified	71039
240-49236-3 MS	079SB-0385-0001-SW	Total/NA	Water	8330 Modified	71039
240-49236-3 MSD	079SB-0385-0001-SW	Total/NA	Water	8330 Modified	71039
LCS 320-71039/2-A	Lab Control Sample	Total/NA	Water	8330 Modified	71039
MB 320-71039/1-A	Method Blank	Total/NA	Water	8330 Modified	71039

Analysis Batch: 71996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-3	079SB-0385-0001-SW	Total/NA	Water	8330B	70962

Metals

Prep Batch: 176157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-3	079SB-0385-0001-SW	Total Recoverable	Water	3005A	
240-49236-3 DU	079SB-0385-0001-SW	Total Recoverable	Water	3005A	
240-49236-3 MS	079SB-0385-0001-SW	Total Recoverable	Water	3005A	
240-49236-4	079SB-0386-0001-RB	Total Recoverable	Water	3005A	
LCS 240-176157/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 240-176157/1-A	Method Blank	Total Recoverable	Water	3005A	

Metals (Continued)

Prep Batch: 176162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-3	079SB-0385-0001-SW	Total/NA	Water	7470A	
240-49236-4	079SB-0386-0001-RB	Total/NA	Water	7470A	
LCS 240-176162/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 240-176162/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 176385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-3	079SB-0385-0001-SW	Total/NA	Water	7470A	176162
240-49236-4	079SB-0386-0001-RB	Total/NA	Water	7470A	176162
LCS 240-176162/2-A	Lab Control Sample	Total/NA	Water	7470A	176162
MB 240-176162/1-A	Method Blank	Total/NA	Water	7470A	176162

Analysis Batch: 176490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-3	079SB-0385-0001-SW	Total Recoverable	Water	6020	176157
240-49236-3 DU	079SB-0385-0001-SW	Total Recoverable	Water	6020	176157
240-49236-3 MS	079SB-0385-0001-SW	Total Recoverable	Water	6020	176157
240-49236-4	079SB-0386-0001-RB	Total Recoverable	Water	6020	176157
LCS 240-176157/2-A	Lab Control Sample	Total Recoverable	Water	6020	176157
MB 240-176157/1-A	Method Blank	Total Recoverable	Water	6020	176157

Leach Batch: 176620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-1	079SB-0383-0001-IDW	TCLP	Solid	1311	
240-49236-1 DU	079SB-0383-0001-IDW	TCLP	Solid	1311	
240-49236-1 MS	079SB-0383-0001-IDW	TCLP	Solid	1311	
240-49236-2	079SB-0384-0001-IDW	TCLP	Water	1311	
LB 240-176620/1-B	Method Blank	TCLP	Solid	1311	
LB 240-176620/1-C	Method Blank	TCLP	Solid	1311	

Analysis Batch: 176660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-3	079SB-0385-0001-SW	Total Recoverable	Water	6020	176157
240-49236-3	079SB-0385-0001-SW	Total Recoverable	Water	6020	176157
240-49236-3 DU	079SB-0385-0001-SW	Total Recoverable	Water	6020	176157
240-49236-3 DU	079SB-0385-0001-SW	Total Recoverable	Water	6020	176157
240-49236-3 MS	079SB-0385-0001-SW	Total Recoverable	Water	6020	176157
240-49236-3 MS	079SB-0385-0001-SW	Total Recoverable	Water	6020	176157
240-49236-4	079SB-0386-0001-RB	Total Recoverable	Water	6020	176157
LCS 240-176157/2-A	Lab Control Sample	Total Recoverable	Water	6020	176157
MB 240-176157/1-A	Method Blank	Total Recoverable	Water	6020	176157

Prep Batch: 176697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-1	079SB-0383-0001-IDW	TCLP	Solid	3010A	176620
240-49236-1 DU	079SB-0383-0001-IDW	TCLP	Solid	3010A	176620
240-49236-1 MS	079SB-0383-0001-IDW	TCLP	Solid	3010A	176620
240-49236-2	079SB-0384-0001-IDW	TCLP	Water	3010A	176620
LB 240-176620/1-B	Method Blank	TCLP	Solid	3010A	176620
LCS 240-176697/3-A	Lab Control Sample	Total/NA	Solid	3010A	
MB 240-176697/2-A	Method Blank	Total/NA	Solid	3010A	

Metals (Continued)

Prep Batch: 176701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-1	079SB-0383-0001-IDW	TCLP	Solid	7470A	176620
240-49236-1 DU	079SB-0383-0001-IDW	TCLP	Solid	7470A	176620
240-49236-1 MS	079SB-0383-0001-IDW	TCLP	Solid	7470A	176620
240-49236-2	079SB-0384-0001-IDW	TCLP	Water	7470A	176620
LB 240-176620/1-C	Method Blank	TCLP	Solid	7470A	176620
LCS 240-176701/3-A	Lab Control Sample	Total/NA	Solid	7470A	
MB 240-176701/2-A	Method Blank	Total/NA	Solid	7470A	

Analysis Batch: 176894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-1	079SB-0383-0001-IDW	TCLP	Solid	7470A	176701
240-49236-1 DU	079SB-0383-0001-IDW	TCLP	Solid	7470A	176701
240-49236-1 MS	079SB-0383-0001-IDW	TCLP	Solid	7470A	176701
240-49236-2	079SB-0384-0001-IDW	TCLP	Water	7470A	176701
LB 240-176620/1-C	Method Blank	TCLP	Solid	7470A	176701
LCS 240-176701/3-A	Lab Control Sample	Total/NA	Solid	7470A	176701
MB 240-176701/2-A	Method Blank	Total/NA	Solid	7470A	176701

Analysis Batch: 176918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-1	079SB-0383-0001-IDW	TCLP	Solid	6010B	176697
240-49236-1	079SB-0383-0001-IDW	TCLP	Solid	6010B	176697
240-49236-1 DU	079SB-0383-0001-IDW	TCLP	Solid	6010B	176697
240-49236-1 DU	079SB-0383-0001-IDW	TCLP	Solid	6010B	176697
240-49236-1 MS	079SB-0383-0001-IDW	TCLP	Solid	6010B	176697
240-49236-1 MS	079SB-0383-0001-IDW	TCLP	Solid	6010B	176697
240-49236-2	079SB-0384-0001-IDW	TCLP	Water	6010B	176697
LB 240-176620/1-B	Method Blank	TCLP	Solid	6010B	176697
LCS 240-176697/3-A	Lab Control Sample	Total/NA	Solid	6010B	176697
MB 240-176697/2-A	Method Blank	Total/NA	Solid	6010B	176697

Analysis Batch: 177115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-3	079SB-0385-0001-SW	Total Recoverable	Water	6020	176157
240-49236-3 DU	079SB-0385-0001-SW	Total Recoverable	Water	6020	176157
240-49236-3 MS	079SB-0385-0001-SW	Total Recoverable	Water	6020	176157
240-49236-4	079SB-0386-0001-RB	Total Recoverable	Water	6020	176157
LCS 240-176157/2-A	Lab Control Sample	Total Recoverable	Water	6020	176157
MB 240-176157/1-A	Method Blank	Total Recoverable	Water	6020	176157

General Chemistry

Pre Prep Batch: 71147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-3	079SB-0385-0001-SW	Total/NA	Water	353.2 (NCell)	
240-49236-3 MS	079SB-0385-0001-SW	Total/NA	Water	353.2 (NCell)	
240-49236-3 MSD	079SB-0385-0001-SW	Total/NA	Water	353.2 (NCell)	
LCS 320-71147/2-B	Lab Control Sample	Total/NA	Water	353.2 (NCell)	
MB 320-71147/1-B	Method Blank	Total/NA	Water	353.2 (NCell)	

General Chemistry (Continued)

Prep Batch: 71630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-3	079SB-0385-0001-SW	Total/NA	Water	353 (NCell-Hyd)	71147
240-49236-3 MS	079SB-0385-0001-SW	Total/NA	Water	353 (NCell-Hyd)	71147
240-49236-3 MSD	079SB-0385-0001-SW	Total/NA	Water	353 (NCell-Hyd)	71147
LCS 320-71147/2-B	Lab Control Sample	Total/NA	Water	353 (NCell-Hyd)	71147
MB 320-71147/1-B	Method Blank	Total/NA	Water	353 (NCell-Hyd)	71147

Analysis Batch: 71741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-3	079SB-0385-0001-SW	Total/NA	Water	WS-WC-0050	71630
240-49236-3 MS	079SB-0385-0001-SW	Total/NA	Water	WS-WC-0050	71630
240-49236-3 MSD	079SB-0385-0001-SW	Total/NA	Water	WS-WC-0050	71630
LCS 320-71147/2-B	Lab Control Sample	Total/NA	Water	WS-WC-0050	71630
MB 320-71147/1-B	Method Blank	Total/NA	Water	WS-WC-0050	71630
MRL 320-71741/11	Lab Control Sample	Total/NA	Water	WS-WC-0050	

Analysis Batch: 175905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-1	079SB-0383-0001-IDW	Total/NA	Solid	Moisture	

Analysis Batch: 176141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-1	079SB-0383-0001-IDW	Total/NA	Solid	9045C	
240-49236-1 DU	079SB-0383-0001-IDW	Total/NA	Solid	9045C	
240-49236-2	079SB-0384-0001-IDW	Total/NA	Water	9040C	
LCS 240-176141/2	Lab Control Sample	Total/NA	Water	9040C	

Prep Batch: 176155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-1	079SB-0383-0001-IDW	Total/NA	Solid	9012A	
LCS 240-176155/2-A	Lab Control Sample	Total/NA	Solid	9012A	
MB 240-176155/1-A	Method Blank	Total/NA	Solid	9012A	

Analysis Batch: 176246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-1	079SB-0383-0001-IDW	Total/NA	Solid	9012A	176155
LCS 240-176155/2-A	Lab Control Sample	Total/NA	Solid	9012A	176155
MB 240-176155/1-A	Method Blank	Total/NA	Solid	9012A	176155

Prep Batch: 176308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-1	079SB-0383-0001-IDW	Total/NA	Solid	9030B	
240-49236-2	079SB-0384-0001-IDW	Total/NA	Water	9030B	
240-49236-2 MS	079SB-0384-0001-IDW	Total/NA	Water	9030B	
240-49236-2 MSD	079SB-0384-0001-IDW	Total/NA	Water	9030B	
LCS 240-176308/15-A	Lab Control Sample	Total/NA	Water	9030B	
LCS 240-176308/2-A	Lab Control Sample	Total/NA	Solid	9030B	
MB 240-176308/14-A	Method Blank	Total/NA	Water	9030B	
MB 240-176308/1-A	Method Blank	Total/NA	Solid	9030B	

General Chemistry (Continued)

Analysis Batch: 176391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-1	079SB-0383-0001-IDW	Total/NA	Solid	9034	176308
240-49236-2	079SB-0384-0001-IDW	Total/NA	Water	9034	176308
240-49236-2 MS	079SB-0384-0001-IDW	Total/NA	Water	9034	176308
240-49236-2 MSD	079SB-0384-0001-IDW	Total/NA	Water	9034	176308
LCS 240-176308/15-A	Lab Control Sample	Total/NA	Water	9034	176308
LCS 240-176308/2-A	Lab Control Sample	Total/NA	Solid	9034	176308
MB 240-176308/14-A	Method Blank	Total/NA	Water	9034	176308
MB 240-176308/1-A	Method Blank	Total/NA	Solid	9034	176308

Analysis Batch: 176597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-1	079SB-0383-0001-IDW	Total/NA	Solid	1010	
240-49236-2	079SB-0384-0001-IDW	Total/NA	Water	1010	
240-49236-2 DU	079SB-0384-0001-IDW	Total/NA	Water	1010	
LCS 240-176597/1	Lab Control Sample	Total/NA	Solid	1010	

Prep Batch: 177636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-2	079SB-0384-0001-IDW	Total/NA	Water	9012A	
LCS 240-177636/2-A	Lab Control Sample	Total/NA	Water	9012A	
MB 240-177636/1-A	Method Blank	Total/NA	Water	9012A	

Analysis Batch: 177730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-49236-2	079SB-0384-0001-IDW	Total/NA	Water	9012A	177636
LCS 240-177636/2-A	Lab Control Sample	Total/NA	Water	9012A	177636
MB 240-177636/1-A	Method Blank	Total/NA	Water	9012A	177636
MRL 240-177730/52	Lab Control Sample	Total/NA	Water	9012A	

Client Sample ID: 079SB-0383-0001-IDW

Lab Sample ID: 240-49236-1

Date Collected: 04/10/15 08:00

Matrix: Solid

Date Received: 04/10/15 14:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			176667	04/15/15 18:45	DRJ	TAL CAN
TCLP	Analysis	8260B		1	177316	04/21/15 19:11	TJL1	TAL CAN
TCLP	Leach	1311			176620	04/15/15 17:00	DRJ	TAL CAN
TCLP	Prep	3520C			176654	04/16/15 08:13	CSC	TAL CAN
TCLP	Analysis	8270C		1	177779	04/24/15 12:18	MRU	TAL CAN
TCLP	Leach	1311			176620	04/15/15 17:00	DRJ	TAL CAN
TCLP	Prep	3520C			176661	04/16/15 08:22	CSC	TAL CAN
TCLP	Analysis	8081A		1	177258	04/22/15 04:55	BPM	TAL CAN
TCLP	Leach	1311			176620	04/15/15 17:00	DRJ	TAL CAN
TCLP	Prep	8151A			176663	04/16/15 08:24	CSC	TAL CAN
TCLP	Analysis	8151A		1	177320	04/21/15 20:53	DEB	TAL CAN
TCLP	Leach	1311			176620	04/15/15 17:00	DRJ	TAL CAN
TCLP	Prep	3010A			176697	04/16/15 09:57	WAL	TAL CAN
TCLP	Analysis	6010B		1	176918	04/17/15 08:35	KLC	TAL CAN
TCLP	Leach	1311			176620	04/15/15 17:00	DRJ	TAL CAN
TCLP	Prep	3010A			176697	04/16/15 09:57	WAL	TAL CAN
TCLP	Analysis	6010B		4	176918	04/17/15 09:10	KLC	TAL CAN
TCLP	Leach	1311			176620	04/15/15 17:00	DRJ	TAL CAN
TCLP	Prep	7470A			176701	04/16/15 14:00	WAL	TAL CAN
TCLP	Analysis	7470A		1	176894	04/17/15 10:44	BW	TAL CAN
Total/NA	Analysis	1010		1	176597	04/15/15 09:50	TPH	TAL CAN
Total/NA	Prep	9012A			176155	04/13/15 09:56	SEM	TAL CAN
Total/NA	Analysis	9012A		1	176246	04/13/15 14:29	SEM	TAL CAN
Total/NA	Prep	9030B			176308	04/14/15 08:03	BLW	TAL CAN
Total/NA	Analysis	9034		1	176391	04/14/15 13:02	BLW	TAL CAN
Total/NA	Analysis	9045C		1	176141	04/13/15 12:45	SEM	TAL CAN
Total/NA	Analysis	Moisture		1	175905	04/10/15 18:17	SEM	TAL CAN

Client Sample ID: 079SB-0384-0001-IDW

Lab Sample ID: 240-49236-2

Date Collected: 04/10/15 08:30

Matrix: Water

Date Received: 04/10/15 14:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			176667	04/15/15 18:45	DRJ	TAL CAN
TCLP	Analysis	8260B		1	177316	04/21/15 19:36	TJL1	TAL CAN
TCLP	Leach	1311			176620	04/15/15 17:05	DRJ	TAL CAN
TCLP	Prep	3520C			176654	04/16/15 08:13	CSC	TAL CAN
TCLP	Analysis	8270C		4	177779	04/24/15 12:43	MRU	TAL CAN
TCLP	Leach	1311	RE		176620	04/15/15 17:05	DRJ	TAL CAN
TCLP	Prep	3520C	RE		177491	04/22/15 15:15	JDR	TAL CAN
TCLP	Analysis	8081A	RE	1	178086	04/27/15 15:27	BPM	TAL CAN
TCLP	Leach	1311			176620	04/15/15 17:05	DRJ	TAL CAN
TCLP	Prep	8151A			176663	04/16/15 08:24	CSC	TAL CAN
TCLP	Analysis	8151A		1	177320	04/21/15 21:41	DEB	TAL CAN

Client Sample ID: 079SB-0384-0001-IDW

Lab Sample ID: 240-49236-2

Date Collected: 04/10/15 08:30

Matrix: Water

Date Received: 04/10/15 14:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			176620	04/15/15 17:05	DRJ	TAL CAN
TCLP	Prep	3010A			176697	04/16/15 09:57	WAL	TAL CAN
TCLP	Analysis	6010B		1	176918	04/17/15 09:06	KLC	TAL CAN
TCLP	Leach	1311			176620	04/15/15 17:05	DRJ	TAL CAN
TCLP	Prep	7470A			176701	04/16/15 14:00	WAL	TAL CAN
TCLP	Analysis	7470A		1	176894	04/17/15 10:49	BW	TAL CAN
Total/NA	Analysis	1010		1	176597	04/15/15 06:57	TPH	TAL CAN
Total/NA	Prep	9012A			177636	04/23/15 11:18	DTN	TAL CAN
Total/NA	Analysis	9012A		1	177730	04/23/15 14:37	SEM	TAL CAN
Total/NA	Prep	9030B			176308	04/14/15 08:03	BLW	TAL CAN
Total/NA	Analysis	9034		1	176391	04/14/15 13:11	BLW	TAL CAN
Total/NA	Analysis	9040C		1	176141	04/13/15 11:27	SEM	TAL CAN

Client Sample ID: 079SB-0385-0001-SW

Lab Sample ID: 240-49236-3

Date Collected: 04/10/15 08:45

Matrix: Water

Date Received: 04/10/15 14:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	176298	04/14/15 12:04	RJQ	TAL CAN
Total/NA	Prep	3520C			176086	04/13/15 06:18	CSC	TAL CAN
Total/NA	Analysis	8270C		1	177779	04/24/15 11:53	MRU	TAL CAN
Total/NA	Prep	3520C	RE		176509	04/15/15 09:05	CSC	TAL CAN
Total/NA	Analysis	8081A	RE	1	176694	04/16/15 20:43	BPM	TAL CAN
Total/NA	Prep	3520C			176083	04/13/15 06:11	CSC	TAL CAN
Total/NA	Analysis	8082		1	176376	04/14/15 14:05	KMG	TAL CAN
Total/NA	Prep	Filtration			71039	04/13/15 19:24	JER	TAL SAC
Total/NA	Analysis	8330 Modified		1	71582	04/20/15 17:05	YPH	TAL SAC
Total/NA	Prep	8330-Prep			70962	04/13/15 09:25	HJA	TAL SAC
Total/NA	Analysis	8330B		1	71173	04/15/15 20:09	YPH	TAL SAC
Total/NA	Prep	8330-Prep			70962	04/13/15 09:25	HJA	TAL SAC
Total/NA	Analysis	8330B		1	71996	04/24/15 02:59	YPH	TAL SAC
Total Recoverable	Prep	3005A			176157	04/13/15 10:08	WAL	TAL CAN
Total Recoverable	Analysis	6020		1	176490	04/14/15 11:16	AS1	TAL CAN
Total Recoverable	Prep	3005A			176157	04/13/15 10:08	WAL	TAL CAN
Total Recoverable	Analysis	6020		1	176660	04/15/15 13:07	AS1	TAL CAN
Total Recoverable	Prep	3005A			176157	04/13/15 10:08	WAL	TAL CAN
Total Recoverable	Analysis	6020		5	176660	04/15/15 13:43	AS1	TAL CAN
Total Recoverable	Prep	3005A			176157	04/13/15 10:08	WAL	TAL CAN
Total Recoverable	Analysis	6020		1	177115	04/20/15 17:32	AS1	TAL CAN
Total/NA	Prep	7470A			176162	04/13/15 14:00	WAL	TAL CAN
Total/NA	Analysis	7470A		1	176385	04/14/15 11:15	BW	TAL CAN
Total/NA	Pre Prep	353.2 (NCell)			71147	04/15/15 08:50	HJA	TAL SAC
Total/NA	Prep	353 (NCell-Hyd)			71630	04/21/15 06:08	HJA	TAL SAC
Total/NA	Analysis	WS-WC-0050		1	71741	04/21/15 14:53	JCB	TAL SAC

Client Sample ID: 079SB-0386-0001-RB

Lab Sample ID: 240-49236-4

Date Collected: 04/10/15 08:50

Matrix: Water

Date Received: 04/10/15 14:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			176157	04/13/15 10:08	WAL	TAL CAN
Total Recoverable	Analysis	6020		1	176490	04/14/15 11:43	AS1	TAL CAN
Total Recoverable	Prep	3005A			176157	04/13/15 10:08	WAL	TAL CAN
Total Recoverable	Analysis	6020		1	176660	04/15/15 13:31	AS1	TAL CAN
Total Recoverable	Prep	3005A			176157	04/13/15 10:08	WAL	TAL CAN
Total Recoverable	Analysis	6020		1	177115	04/20/15 17:51	AS1	TAL CAN
Total/NA	Prep	7470A			176162	04/13/15 14:00	WAL	TAL CAN
Total/NA	Analysis	7470A		1	176385	04/14/15 11:16	BW	TAL CAN

Client Sample ID: 079SB-0387-0001-RB

Lab Sample ID: 240-49236-5

Date Collected: 04/10/15 09:00

Matrix: Water

Date Received: 04/10/15 14:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	176298	04/14/15 12:27	RJQ	TAL CAN

Client Sample ID: 079SB-0388-0001-TB

Lab Sample ID: 240-49236-6

Date Collected: 04/10/15 07:30

Matrix: Water

Date Received: 04/10/15 14:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	176298	04/14/15 12:50	RJQ	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Certification Summary

Client: Environmental Chemical Corp.
Project/Site: Ravenna Army Ammunition Plant

TestAmerica Job ID: 240-49236-1

Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-14 *
California	State Program	9	2927	04-30-15 *
Connecticut	State Program	1	PH-0590	12-31-15
Florida	NELAP	4	E87225	06-30-15 *
Georgia	State Program	4	N/A	06-30-15 *
Illinois	NELAP	5	200004	07-31-15
Kansas	NELAP	7	E-10336	04-30-15 *
Kentucky (UST)	State Program	4	58	06-30-15 *
Kentucky (WW)	State Program	4	98016	12-31-15
L-A-B	DoD ELAP		L2315	07-18-16
Minnesota	NELAP	5	039-999-348	12-31-15
Nevada	State Program	9	OH-000482008A	07-31-15
New Jersey	NELAP	2	OH001	06-30-15 *
New York	NELAP	2	10975	03-31-16 *
Ohio VAP	State Program	5	CL0024	10-31-15
Oregon	NELAP	10	4062	02-23-16
Pennsylvania	NELAP	3	68-00340	08-31-15
Texas	NELAP	6		08-31-15
USDA	Federal		P330-13-00319	11-26-16
Virginia	NELAP	3	460175	09-14-15
Washington	State Program	10	C971	01-12-16
West Virginia DEP	State Program	3	210	12-31-15
Wisconsin	State Program	5	999518190	08-31-15

Laboratory: TestAmerica Sacramento

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		2928-01	01-31-16
Alaska (UST)	State Program	10	UST-055	12-18-15
Arizona	State Program	9	AZ0708	08-11-15
Arkansas DEQ	State Program	6	88-0691	06-17-15
California	State Program	9	2897	01-31-16
Colorado	State Program	8	N/A	08-31-15
Connecticut	State Program	1	PH-0691	06-30-15
Florida	NELAP	4	E87570	06-30-15
Hawaii	State Program	9	N/A	01-29-16
Illinois	NELAP	5	200060	03-17-16
Kansas	NELAP	7	E-10375	10-31-15
Louisiana	NELAP	6	30612	06-30-15
Michigan	State Program	5	9947	01-31-16
Nevada	State Program	9	CA44	07-31-15
New Jersey	NELAP	2	CA005	06-30-15
New York	NELAP	2	11666	04-01-16
Oregon	NELAP	10	CA200005	01-29-16
Oregon	NELAP Secondary AB	10	E87570	06-30-15
Pennsylvania	NELAP	3	9947	03-31-16
Texas	NELAP	6	T104704399-08-TX	05-31-15
US Fish & Wildlife	Federal		LE148388-0	02-28-16
USDA	Federal		P330-11-00436	12-30-17

* Certification renewal pending - certification considered valid.

Certification Summary

Client: Environmental Chemical Corp.
Project/Site: Ravenna Army Ammunition Plant

TestAmerica Job ID: 240-49236-1

Laboratory: TestAmerica Sacramento (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
USEPA UCMR	Federal	1	CA00044	11-06-16
Utah	NELAP	8	QUAN1	02-28-16
Washington	State Program	10	C581	05-05-15
West Virginia (DW)	State Program	3	9930C	12-31-15
Wyoming	State Program	8	8TMS-Q	01-29-16

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

CHAIN OF CUSTODY
AND
RECEIVING DOCUMENTS


240-49236 Chain of Custody

TestAmerica Canton
4101 Shuffel Street, N. W.
North Canton, OH 44720
phone 330.497.9396 fax 330.497.0772

Chain of Custody Record

Test America Project #: 24009157

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☐Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Al Easterday	Site Contact: Jeff Donovan	4/10/2015	COC No: 006
Environmental Chemical Corp.	Tel/Fax: 508-229-2270 Ext 22109	Lab Contact: Mark Loeb	Carrier: Lab Pick up	1 of 1 COCs
33 Boston Post Rd. W	Analysis Turnaround Time			For Lab Use Only:
Marlborough, MA, 01752	☑CALENDAR DAYS ☐WORKING DAYS			Walk-in Client:
508-229-2270	TAT if different from Below = 3 weeks			Lab Sampling:
508-229-7737 (fax)	☐ 2 weeks			
Project Name: Ravenna Army Ammunition Plant	☐ 1 week			Job / SDG No.:
Site: CC RVAAP-79 Main Storage Area	☐ 2 days			
P O # 5141.004	☐ 1 day			Sampler:MG -AW

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	SW8260B / 5035	SW8270C / SVOC	SW6020 / TAL Metals	SW8082 / PCB	SW8081A / Pesticides	SW8330B / Explosives	SW8330 - Nitroguanidine	Propellant - Nitrocellulose	SW71471A/ Mercury	SW8260B/5030	Full TCLP	Corrosivity	Flashpoint	Total Cyanide/Reactivity	Total Sulfide/Reactivity	Total Cyanide/Reactivity	Total Sulfide/Reactivity			Sample Specific Notes:
079SB-0383-0001-IDW	10-Apr-15	0800	G	SO	2	N	N											X	X	X	X	X						IDW - Soils
079SB-0384-0001-IDW	10-Apr-15	0830	G	W	8	N	N											X	X	X			X	X				IDW - Liquids
079SB-0385-0001-SW	10-Apr-15	0845	G	W	13	N	N		X	X	X	X	X	X	X	X												Source Water
079SB-0386-0001-RB	10-Apr-15	0850	G	W	1	N	N			X						X												Rinsate Blank - CC79
069SB-0387-0001-RB	10-Apr-15	0900	G	W	2	N	N										X											Rinsate Blank - CC69
079SB-0388-0001-TB	10-Apr-15	0730	Lab Supplied	DI	2	N	N										X											Trip Blank
Preservation Used: 1=Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=MeOH; 7=DI Water								1,6,7	1	1	1	1	1	1	1	1	1,2	1	1	1	1	1	1.5	1,8			

Possible Hazard Identification: 8 = Zn Acetate

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

☐Return to Client ☑Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments: Full TCLP = VOC, SVOC, Metals, Pesticides, Herbicides

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	TCC	4-10-15	[signature]	TestAm	4-10-2015 1338
Relinquished by: [signature]	Company: TestAm 4-10-15	Date/Time: 1425	Received by: [signature]	Company: TA	Date/Time: 4-10-15 1421
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.1, dated 02/20/2013

TestAmerica Canton Sample Receipt Form/Narrative Login # : 492360
Canton Facility

Client ECC Site Name _____ Cooler unpacked by:

Cooler Received on 4-10-15 Opened on 4-10-15

FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # _____ Foam Box Client Cooler Box Other _____

Packing material used: ~~Bubble Wrap~~ Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt
   - ~~IR GUN# A (CF +4.0 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C~~
   - IR GUN# 4 (CF +0.5 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
   - ~~IR GUN# 5 (CF +0.4 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C~~
   - IR GUN# 8 (CF -1.2 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

   ☑ See Multiple Cooler Form

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 8 — Yes No
   - -Were custody seals on the outside of the cooler(s) signed & dated? — Yes No NA
   - -Were custody seals on the bottle(s)? — Yes No
3. Shippers' packing slip attached to the cooler(s)? — Yes No
4. Did custody papers accompany the sample(s)? — Yes No
5. Were the custody papers relinquished & signed in the appropriate place? — Yes No
6. Was/were the sampler(s) clearly identified on the COC? — Yes No
7. Did all bottles arrive in good condition (Unbroken)? — Yes No
8. Could all bottle labels be reconciled with the COC? — Yes No
9. Were correct bottle(s) used for the test(s) indicated? — Yes No
10. Sufficient quantity received to perform indicated analyses? — Yes No
11. Were sample(s) at the correct pH upon receipt? — Yes No NA pH Strip Lot# HC425511
12. Were VOAs on the COC? — Yes No AM 4/14/15
13. Were air bubbles >6 mm in any VOA vials? — Yes No NA
14. Was a trip blank present in the cooler(s)? Trip Blank Lot # _____ — Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by: AM

Sample 0795B-0385-0001-SW rec'd 3x40 for VOCs, not on COC! OK to log VOC's per client. gaj 4-14-15

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____

Ref: SOP NC-SC-0005, Sample Receiving
X:\Document Control\SOPs\Work Instructions\Word Version Work Instructions\WI-NC-099P-020915 Cooler Receipt Form.doc djl

TestAmerica Multiple Cooler Receipt Form/Narrative **Login # : 49236**
Canton Facility

Cooler #	IR Gun #	Observed Temp °C	Corrected Temp °C	Coolant
Client	4	3.6	4.1	Ice
↓	↓	4.8	5.3	↓
↓	↓	3.0	3.5	↓
↓	↓	3.2	3.7	↓

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Revision 3, 3/18/13 rls

Login Container Summary Report

Temperature readings: _____

Client Sample ID	Lab ID	Container Type	Container pH	Preservative Added (mls)	Lot #
079SB-0384-0001-IDW	240-49236-A-2	Plastic 250ml - with Sodium Hydro>	>12	_____	_____
079SB-0384-0001-IDW	240-49236-B-2	Plastic 500ml - with Zn Acetate and	>9	_____	_____
079SB-0385-0001-SW	240-49236-D-3	Plastic 250ml - with Nitric Acid	<2	_____	_____
079SB-0386-0001-RB	240-49236-A-4	Plastic 250ml - with Nitric Acid	<2	_____	_____

Login Sample Receipt Checklist

Client: Environmental Chemical Corp.

Job Number: 240-49236-1

Login Number: 49236
List Number: 2
Creator: Hytrek, Cheryl

List Source: TestAmerica Sacramento
List Creation: 04/11/15 02:17 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	