



CREDERE ASSOCIATES, LLC

776 Main Street
Westbrook, Maine 04092
Phone: 207-828-1272
Fax: 207-887-1051

July 11, 2017

Christopher S. Ollice
U.S. Coast Guard
Shore Infrastructure Logistics Center
Environmental Management Division
300 East Main Street, Suite 800
Norfolk, VA 23510

Subject: **Construction Completion Report**
U.S. Coast Guard Jonesport, Maine Housing Unit
9 Ferry Street, Jonesport, ME

Contract HSCGG1-17-Q-PSL005

Dear Mr. Ollice:

The following Construction Completion Report (CCR) provides a summary of waste characterization soil sampling, soil removal and disposal, and restoration actions undertaken at the former U.S. Coast Guard (USCG) Jonesport Housing Unit located at 9 Ferry Street in the Town of Jonesport, ME (Site). A Site Location Plan is provided as **Figure 1**. This work was performed between May 2, 2017 and June 21, 2017 by Credere Associates, LLC (Credere) of Westbrook, Maine, who also provided oversight of work performed by NRC/Enpro of Portland, Maine on June 20 and 21, 2017. Soil removal and restoration were completed in accordance with the June 6, 2017, Removal Action Work Plan (RAWP) and associated USCG Statement of Work (SOW), dated February 14, 2017.

Site Description and Project Background

The Site comprises a three-story single-family residence that was formerly used to house USCG personnel. The residence had a wood clapboard exterior with flaking lead paint that impacted soil around the perimeter of the residence. A Detailed Site Plan is provided as **Figure 2**, which includes the area of lead-impacted soil that was removed and restored.

In October 2014, Credere performed soil sampling at the Site as a subcontractor to Tetra Tech of Sterling, Virginia, who was contracted by the U.S. General Services Administration (GSA) to perform the required environmental inspections as part of due diligence for divestment and sale of the Site. Soil sampling results indicated exceedances of the U.S. Environmental Protection Agency's (EPA) Residential Direct Contact Criteria for lead of 400 milligrams per kilogram (mg/kg) and the Maine Department of Environmental Protection's (DEP) Chapter 424 limit of 1,000 mg/kg for residential soil. All exceedances were on the western side of the Site structure. Credere conducted additional delineation sampling in November 2015 to assess the areal extent

and depth of lead impacts. Samples were collected and analyzed at eight locations on the western side of the residence at three depths per location: 0 – 3”, 6 – 10”, and 14 – 18”. The results indicated that lead exceedances of the EPA criteria and the Maine DEP limit were limited to the top 10 inches of soil from the foundation out to the drip line (approximately 5 feet from the structure).

Based on this delineated extent, Credere prepared a RAWP for the Site dated June 6, 2017. The objectives of the RAWP included the following:

- Remove lead-impacted soil at the Site to meet the EPA criteria for residential use
- Restore the Site
- Sufficiently document the removal and restoration actions to meet environmental due diligence standards for property sale and future use to allow for Site closure

To meet the above objectives, the following scope of work was completed in accordance with the SOW, the National Contingency Plan (NCP), and all applicable Federal (EPA) and State (Maine) environmental regulations, and in accordance with applicable Occupational Health and Safety Administration (OSHA) worker safety standards:

- Pre-characterization of soil for disposal
- Excavation of soil along the western side of the structure to remove lead impacted soil that exceeded the EPA residential use criteria of 400 mg/kg
- Disposal of the excavated soil at a licensed disposal facility
- Restoration of the Site to original condition with certified clean fill and reseeding
- Completion of a CCR that documents the above (herein)

Summary of Completed Activities

The following is a summary of remediation activities undertaken at the Site between May 2 and June 21, 2017. Photographs taken during the soil removal are included as **Attachment A**, and Health and Safety forms are included as **Attachment B**.

The soil removal area was pre-marked by Credere staff on May 2, 2017 and DigSafe® was notified of the work to allow member utilities to identify area subsurface structures. DigSafe® ticket number 20171816521 was issued for the work.

A soil sample was collected for waste characterization on May 2, 2017. Eight aliquots were collected within the removal area to a depth of 12 inches and composited in a decontaminated stainless-steel bowl. The composite sample (JP-WC) was submitted to Absolute Resource Associates (ARA) of Portsmouth, New Hampshire, and analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), total petroleum hydrocarbons (TPH), polychlorinated biphenyls (PCBs), herbicides, pesticides, Resource Conservation and Recovery Act (RCRA) eight (8) metals, toxicity characteristics leaching procedure (TCLP) for lead, sulfide reactivity, and ignitability. Waste characterization results are included as **Attachment C**. TCLP lead was 1.4 milligrams per liter (mg/L) indicating the soil was non-hazardous (results less than



5 mg/L for lead) and a waste profile was submitted to Juniper Ridge Landfill of West Old Town, Maine, for acceptance.

On June 12, 2017, an additional soil sample was collected by Credere in the 12 to 24 inch below ground surface (bgs) depth range to verify that exceedances of the EPA and MEDEP lead standards were limited to the top 12 inches in the soil removal area. Eight aliquots were collected from 12 to 24 inches bgs and composited in a decontaminated stainless-steel bowl. This soil sample (USCG [12-24]) was analyzed for lead only. The analytical results are included as **Attachment D** and lead was detected at 87 mg/kg – below EPA and Maine DEP limits for residential soil, indicating exceedances were confined to the top 12 inches.

On June 12, 2017, a clean fill sample (Mark's Mix) was collected from Mark Wright Construction & Disposal in Jonesboro, Maine. This sample was analyzed for RCRA 8 metals only, as the native, rural source of material was not likely to contain other contaminants of concern (e.g., VOCs, PCBs, pesticides). Analytical results are included in **Attachment D**; lead was detected at 7.4 mg/kg and other metals were consistent with background conditions. Particularly, arsenic, which naturally occurs at high concentrations in Maine geology, was detected at a concentration of 4.0 mg/kg, which is well below the Maine DEP established background concentrations (16 mg/kg). Therefore, this fill was considered acceptable for use as backfill at the Site.

On June 20, 2017, soil was excavated from a 45 foot by 5 foot removal area along the western building wall to a depth of 12 inches bgs by trained personnel from NRC/ENPRO using a Vactor™ vacuum excavator. No confirmation sampling was required below or outside the excavation limits, per the SOW, and based on the results of the above USCG (12-24) sample. The excavation was checked by Credere through manual measurement of the sidewalls and center of the excavation. Checked points were all at least 12 inches below the surface elevation.

Excavated soil was transported in the Vactor™ truck to Juniper Ridge Landfill in West Old Town, Maine, which is a licensed disposal facility for the State of Maine. A total of 8.69 tons of non-RCRA, non-DOT regulated material was disposed. The certified waste manifest is presented as **Attachment E**.

Excavated areas were backfilled on June 20 and 21, 2017 with native clean fill (Mark's Mix). The Site was backfilled to the original surface elevation, compacted, and seeded. The seeded area was covered with straw for moisture retention and erosion control and lightly watered.

Conclusions

Based on the work completed at the Site, Credere offers the following conclusions:

- 8.69 tons of soil was excavated from the top 12 inches of the soil removal area on the western side of the Site building and properly disposed at a licensed disposal facility.
- Samples collected in November 2015 at 14 to 18 inch depth did not exceed EPA or Maine DEP limits for lead in residential soil; contamination was limited to samples collected 0 – 10 inches below ground surface.
- Analytical results from a composited soil sample collected on June 12, 2017 from 12 to 24 inches below ground surface did not exceed EPA or Maine DEP limits for lead in residential soil.
- The excavated area was backfilled with native clean fill to original surface elevation, compacted, and seeded.

Recommendations

Credere has no recommendations for further cleanup work at the Site with regard to the activities outlined in the June 6, 2017 Removal Action Work Plan.


Please do not hesitate to contact us at (207) 828-1272 if you have any questions or comments.

Sincerely,

Credere Associates, LLC


Sean McNamara
Project Manager

Reviewed and Approved by:


Rip Patten, PE, LSP, LEED-AP
Vice President

Figures

Figure 1 Site Location Plan
Figure 2 Detailed Site Plan

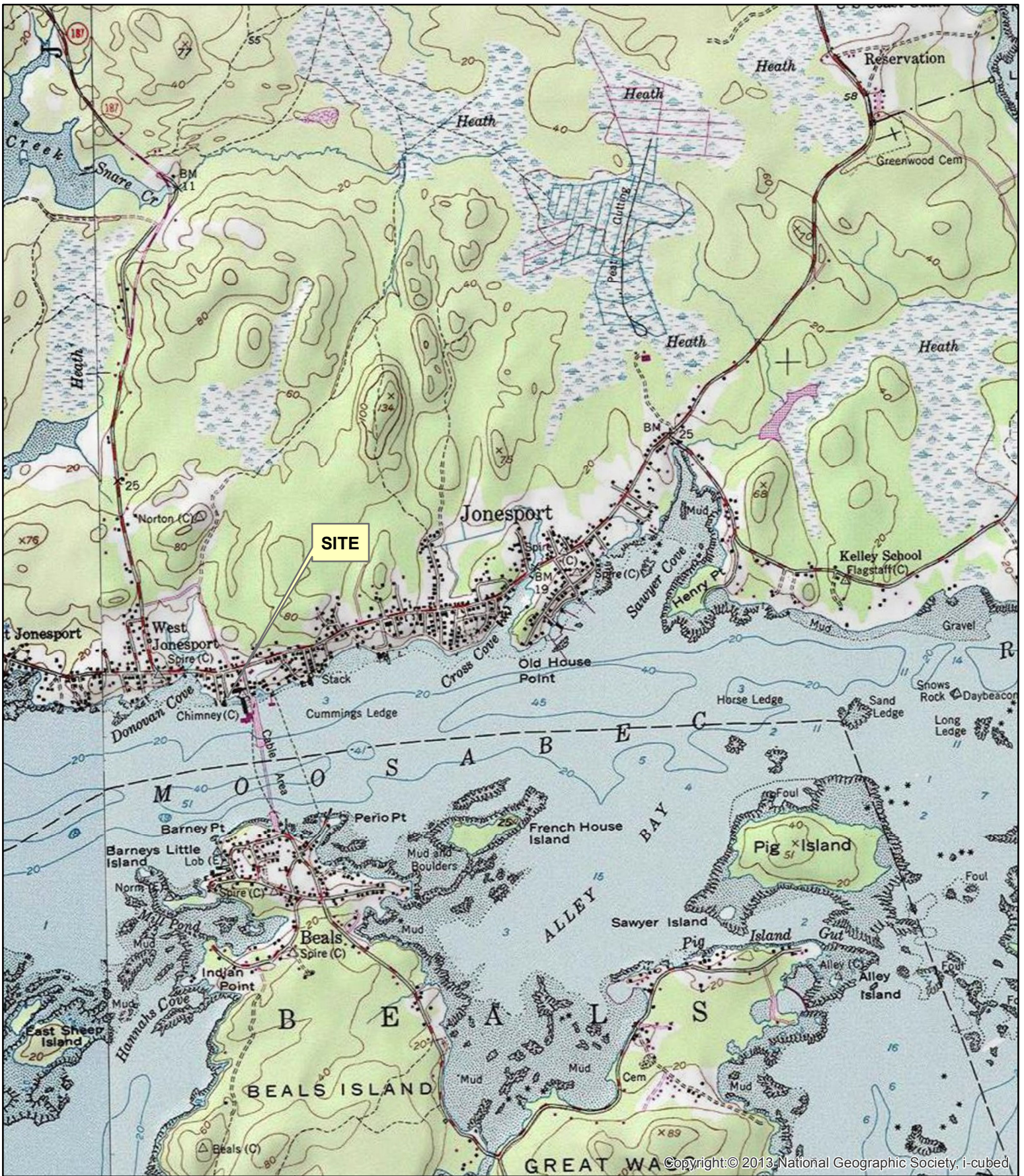
Attachments

Attachment A Photo Log
Attachment B Health and Safety Forms
Attachment C Waste Characterization Analytical Results
Attachment D Lead in Soil (12 – 24”) and Clean Fill Analytical Results
Attachment E Waste Disposal Manifest



FIGURES

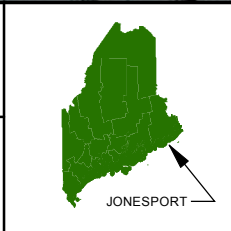




Copyright © 2013, National Geographic Society, i-cubed

| | |
|---|-------------------|
| DRAWN BY: MTG | DATE: 5/23/17 |
| CHECKED BY: SWM | PROJECT: 17001403 |
| Creder Associates, LLC 776 MAIN STREET WESTBROOK, MAINE Tel. 207.828.1272 Fax 207.887.1051 WWW.CREDERELLC.COM | |

| | |
|---|--|
| <h1>FIGURE 1</h1> <h2>SITE LOCATION PLAN</h2> | |
| USCG HOUSING UNIT 9 FERRY STREET JONESPORT, MAINE | 1,000 0 2,000 Feet 1 INCH = 2,000 FEET |








**LIMITS OF EXCAVATION:
45 FEET CENTERED ALONG THE EDGE OF SITE BUILDING
(NORTH TO SOUTH)
EXTENDING 5 FEET OUT FROM THE SITE BUILDING
(EAST TO WEST)**

FERRY STREET

SITE HOUSING UNIT

SHED

THE SITE
9 FERRY STREET

-  SITE BOUNDARY
-  PARCEL BOUNDARIES
-  BUILDING EXTENT
-  LIMITS OF EXCAVATION
-  DEPTH MEASUREMENT LOCATIONS

DRAWN BY: MTG/SCG DATE: 5/23/17
CHECKED BY: SWM PROJECT: 17001403

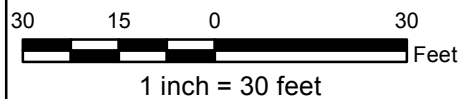
FIGURE 2 DETAILED SITE PLAN



Credere Associates, LLC

776 MAIN STREET
WESTBROOK, MAINE
Tel. 207.828.1272
Fax 207.887.1051
WWW.CREDERELLC.COM

USCG HOUSING UNIT
9 FERRY STREET
JONESPORT, MAINE



Attachment A

Photo Log



Attachment A – Site Photo Log
USCG Housing Unit
Jonesport, Maine



1. View south along western side of site building.



2. View south along western side of site building.



3. Site walk photo of soil removal area.



4. Site walk photo of soil removal area.

Attachment A – Site Photo Log
USCG Housing Unit
Jonesport, Maine



5. Site walk photo of soil removal area.



6. Composite soil sampling, May 2, 2017



7. Composite soil sampling, May 2, 2017.



8. Composite soil sampling, May 2, 2017.

Attachment A – Site Photo Log
USCG Housing Unit
Jonesport, Maine



9. Soil removal by vacuum excavator, June 20, 2017.



10. Area of excavated soil under deck, June 20, 2017.



11. Area of excavated soil, June 20, 2017.



12. Area of excavated soil, June 20, 2017.

Attachment A – Site Photo Log
USCG Housing Unit
Jonesport, Maine



13. Soil was removed to a depth of 12 inches, June 20, 2017.



14. Area backfilled to original grade with clean topsoil, June 21, 2017.



15. Topsoil seeded and pathway stones replaced, June 21, 2017.







16. Hay cover to control moisture and erosion, June 21, 2017.

Attachment B
Health and Safety Forms



4. SIGNATURES

I have read and understand the above HASP and agree to abide by the guidelines set forth herein.

| Title | Print Name | Signature | Date |
|-------------------------|---------------|--|---------|
| Project Manager | Sean McNamara |  | 6/20/17 |
| Health & Safety Officer | Mark Willis |  | 5-11-17 |
| Field Personnel | STACY W TORRE |  | 6/20/17 |
| Field Personnel | | | |
| U.S. Coast Guard EOR | Chris Ollie |  | 6/20/17 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

5. SIGNATURES BY SUBCONTRACTORS OR OTHER SITE PERSONNEL

This HASP has been made available to me for hazard awareness purposes only. I understand that as a subcontractor or other party present at the Site, I or my employer must establish a HASP applicable to my own activities onsite. I also understand that protective measures specified in this HASP are minimum requirements for Credere's work at the Site and in no way implies that all potential hazards have been identified. By signing below, I acknowledge that this HASP has been made available to me for informational purposes only and that I understand the basic guidelines set forth herein.

6/20/17

6/21/17

| Subcontractor/Other Company/Agency | Print Name | Signature | Date |
|------------------------------------|----------------|-----------------------|---------|
| NRC | Joe Gilliam | <i>Joe Gilliam</i> | 6/20/17 |
| NRC | Blake Babineau | <i>Blake Babineau</i> | 6/20/17 |
| NRC | BJ MacEachern | <i>BJ MacEachern</i> | 6/20/17 |
| — | — | — | |
| NRC | BJ MacEachern | <i>BJ MacEachern</i> | 6/21/17 |
| NRC | Blake Babineau | <i>Blake Babineau</i> | 6/21/17 |
| NRC | Joe Gilliam | <i>Joe Gilliam</i> | 6/21/17 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

Attachment C

Waste Characterization Analytical Results



Laboratory Report



Absolute Resource *associates*

124 Heritage Avenue Portsmouth NH 03801

Sean McNamara
CREDERE Associates
776 Main Street
Westbrook, ME 04092

PO Number: None
Job ID: 40133
Date Received: 5/3/17

Project: Jonesport

Attached please find results for the analysis of the samples received on the date referenced above.

Unless otherwise noted in the attached report, the analyses performed met the requirements of Absolute Resource Associates' Quality Assurance Plan. The Standard Operating Procedures are based upon USEPA SW-846, USEPA Methods for Chemical Analysis of Water and Wastewater, Standard Methods for the Examination of Water and Wastewater and other recognized methodologies. The results contained in this report pertain only to the samples as indicated on the chain of custody.

Absolute Resource Associates maintains certification with the agencies listed below.

We appreciate the opportunity to provide laboratory services. If you have any questions regarding the enclosed report, please contact the laboratory and we will be glad to assist you.

Sincerely,
Absolute Resource Associates

A handwritten signature in black ink that reads "Sue Sylvester (for)". The signature is written in a cursive, flowing style.

Sue Sylvester
Principal, General Manager

Date of Approval: 5/25/2017
Total number of pages: 21

Absolute Resource Associates Certifications

New Hampshire 1732
Maine NH903

Massachusetts M-NH902

Sample Association Table

| Field ID | Matrix | Date-Time Sampled | Lab# | Analysis |
|------------|--------|-------------------|-----------|--|
| JP-WC- | Solid | 5/2/2017 11:00 | 40133-001 | Solid Digestion for ICP Analysis Silver in solids by 6020 Arsenic in solids by 6020 Barium in solids by 6020 Cadmium in solids by 6020 Chromium in solids by 6020 Mercury in solids by 7471 Lead in solids by 6020 Selenium in solids by 6020 Percent Dry Matter for Sample Calc by SM2540B,G VOCs in solids by 8260 Ignitability of Solid Samples by SW1010 Sulfide-soluble in solid by SM4500-S2 D+F |
| Trip Blank | Solid | 5/2/2017 0:00 | 40133-002 | VOCs in solids by 8260 |
| JP-WC- | TCLP | 5/2/2017 11:00 | 40133-003 | Water Digestion for ICP Analysis TCLP Extraction Lead in water by 6020 |

Project ID: Jonesport

Job ID: 40133

Sample#: 40133-001

Sample ID: JP-WC-

Matrix: Solid

Percent Dry: 81.3% Results expressed on a dry weight basis.

Sampled: 5/2/17 11:00

| Parameter | Result | Reporting | | Instr Dil'n | | Prep | | Analysis | | Reference |
|-----------------------------|--------|-----------|-------|-------------|---------|--------|-------|----------|-------|--------------|
| | | Limit | Units | Factor | Analyst | Date | Batch | Date | Time | |
| dichlorodifluoromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| chloromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| vinyl chloride | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| bromomethane | < 0.3 | 0.3 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| chloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| trichlorofluoromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| diethyl ether | < 0.5 | 0.5 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| acetone | < 3 | 3 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| 1,1-dichloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| methylene chloride | < 0.3 | 0.3 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| carbon disulfide | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| methyl t-butyl ether (MTBE) | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| trans-1,2-dichloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| 1,1-dichloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| 2-butanone (MEK) | < 0.3 | 0.3 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| 2,2-dichloropropane | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| cis-1,2-dichloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| chloroform | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| bromochloromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| tetrahydrofuran (THF) | < 0.5 | 0.5 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| 1,1,1-trichloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| 1,1-dichloropropene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| carbon tetrachloride | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| 1,2-dichloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| benzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| trichloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| 1,2-dichloropropane | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| bromodichloromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| dibromomethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| 4-methyl-2-pentanone (MIBK) | < 0.5 | 0.5 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| cis-1,3-dichloropropene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| toluene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| trans-1,3-dichloropropene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| 2-hexanone | < 0.5 | 0.5 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| 1,1,2-trichloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| 1,3-dichloropropane | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| tetrachloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| dibromochloromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| 1,2-dibromoethane (EDB) | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| chlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| 1,1,1,2-tetrachloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| ethylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| m&p-xylenes | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |

Project ID: Jonesport

Job ID: 40133

Sample#: 40133-001

Sample ID: JP-WC-

Matrix: Solid

Percent Dry: 81.3% Results expressed on a dry weight basis.

Sampled: 5/2/17 11:00

| Parameter | Result | Reporting | | Instr Dil'n | | Prep | | Analysis | | |
|------------------------------------|--------------|---------------|-------|-------------|---------|--------|-------|----------|-------|--------------|
| | | Limit | Units | Factor | Analyst | Date | Batch | Date | Time | Reference |
| o-xylene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| styrene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| bromoform | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| isopropylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| 1,1,2,2-tetrachloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| 1,2,3-trichloropropane | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| n-propylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| bromobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| 1,3,5-trimethylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| 2-chlorotoluene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| 4-chlorotoluene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| tert-butylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| 1,2,4-trimethylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| sec-butylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| 1,3-dichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| 4-isopropyltoluene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| 1,4-dichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| 1,2-dichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| n-butylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| 1,2-dibromo-3-chloropropane (DBCP) | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| 1,2,4-trichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| hexachlorobutadiene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| naphthalene | < 0.3 | 0.3 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| 1,2,3-trichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| Surrogate Recovery | | Limits | | | | | | | | |
| dibromofluoromethane SUR | 96 | 78-114 | % | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| toluene-D8 SUR | 101 | 88-110 | % | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| 4-bromofluorobenzene SUR | 116 * | 86-115 | % | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |
| a,a,a-trifluorotoluene SUR | 133 * | 70-130 | % | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 19:29 | SW5035A8260C |

** This surrogate showed recovery above the acceptance limits. Since no targets were detected above the quantitation limit, there is no impact to the data.*

Project ID: Jonesport

Job ID: 40133

Sample#: 40133-002

Sample ID: Trip Blank

Matrix: Solid

Sampled: 5/2/17 0:00

| Parameter | Result | Reporting | | Instr Dil'n | | Prep | | Analysis | | |
|-----------------------------|--------|-----------|-------|-------------|---------|--------|-------|----------|-------|--------------|
| | | Limit | Units | Factor | Analyst | Date | Batch | Date | Time | Reference |
| dichlorodifluoromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| chloromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| vinyl chloride | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| bromomethane | < 0.2 | 0.2 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| chloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| trichlorofluoromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| diethyl ether | < 0.5 | 0.5 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| acetone | < 2 | 2 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| 1,1-dichloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| methylene chloride | < 0.2 | 0.2 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| carbon disulfide | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| methyl t-butyl ether (MTBE) | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| trans-1,2-dichloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| 1,1-dichloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| 2-butanone (MEK) | < 0.3 | 0.3 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| 2,2-dichloropropane | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| cis-1,2-dichloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| chloroform | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| bromochloromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| tetrahydrofuran (THF) | < 0.5 | 0.5 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| 1,1,1-trichloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| 1,1-dichloropropene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| carbon tetrachloride | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| 1,2-dichloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| benzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| trichloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| 1,2-dichloropropane | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| bromodichloromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| dibromomethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| 4-methyl-2-pentanone (MIBK) | < 0.4 | 0.4 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| cis-1,3-dichloropropene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| toluene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| trans-1,3-dichloropropene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| 2-hexanone | < 0.5 | 0.5 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| 1,1,2-trichloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| 1,3-dichloropropane | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| tetrachloroethene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| dibromochloromethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| 1,2-dibromoethane (EDB) | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| chlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| 1,1,1,2-tetrachloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| ethylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| m&p-xylenes | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |

Project ID: Jonesport

Job ID: 40133

Sample#: 40133-002

Sample ID: Trip Blank

Matrix: Solid

Sampled: 5/2/17 0:00

| Parameter | Result | Reporting | | Instr Dil'n | | Prep | | Analysis | | |
|------------------------------------|------------|---------------|-------|-------------|---------|--------|-------|----------|-------|--------------|
| | | Limit | Units | Factor | Analyst | Date | Batch | Date | Time | Reference |
| o-xylene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| styrene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| bromoform | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| isopropylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| 1,1,2,2-tetrachloroethane | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| 1,2,3-trichloropropane | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| n-propylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| bromobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| 1,3,5-trimethylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| 2-chlorotoluene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| 4-chlorotoluene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| tert-butylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| 1,2,4-trimethylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| sec-butylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| 1,3-dichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| 4-isopropyltoluene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| 1,4-dichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| 1,2-dichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| n-butylbenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| 1,2-dibromo-3-chloropropane (DBCP) | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| 1,2,4-trichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| hexachlorobutadiene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| naphthalene | < 0.2 | 0.2 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| 1,2,3-trichlorobenzene | < 0.1 | 0.1 | ug/g | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| Surrogate Recovery | | Limits | | | | | | | | |
| dibromofluoromethane SUR | 98 | 78-114 | % | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| toluene-D8 SUR | 97 | 88-110 | % | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| 4-bromofluorobenzene SUR | 105 | 86-115 | % | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |
| a,a,a-trifluorotoluene SUR | 122 | 70-130 | % | 1 | LMM | 5/9/17 | 9646 | 5/10/17 | 17:19 | SW5035A8260C |

Project ID: Jonesport

Job ID: 40133

Sample#: 40133-001

Sample ID: JP-WC-

Matrix: Solid

Percent Dry: 81.3% Results expressed on a dry weight basis.

Sampled: 5/2/17 11:00

| Parameter | Result | Reporting | | Instr Dil'n | | Prep | | Analysis | | | Reference |
|-----------|-------------|-----------|-------|-------------|---------|---------|-------|----------|-------|--------------|-----------|
| | | Limit | Units | Factor | Analyst | Date | Batch | Date | Time | | |
| Arsenic | 4.3 | 3.0 | ug/g | 5 | AM | 5/10/17 | 9647 | 5/10/17 | 16:14 | SW3051A6020A | |
| Barium | 61 | 6 | ug/g | 5 | AM | 5/10/17 | 9647 | 5/10/17 | 16:14 | SW3051A6020A | |
| Cadmium | < 0.6 | 0.6 | ug/g | 5 | AM | 5/10/17 | 9647 | 5/10/17 | 16:14 | SW3051A6020A | |
| Chromium | 11 | 6 | ug/g | 5 | AM | 5/10/17 | 9647 | 5/10/17 | 16:14 | SW3051A6020A | |
| Lead | 250 | 3.0 | ug/g | 5 | AM | 5/10/17 | 9647 | 5/10/17 | 16:14 | SW3051A6020A | |
| Mercury | 0.26 | 0.18 | ug/g | 1 | AM | 5/9/17 | 9641 | 5/10/17 | 13:34 | SW7471B | |
| Selenium | < 6 | 6 | ug/g | 5 | AM | 5/10/17 | 9647 | 5/10/17 | 16:14 | SW3051A6020A | |
| Silver | < 3.0 | 3.0 | ug/g | 5 | AM | 5/10/17 | 9647 | 5/10/17 | 16:14 | SW3051A6020A | |

Sample#: 40133-001

Sample ID: JP-WC-

Matrix: Solid

Percent Dry: 81.3% Results expressed on a dry weight basis.

Sampled: 5/2/17 11:00

| Parameter | Result | Reporting | | Instr Dil'n | | Prep | | Analysis | | | Reference |
|-----------------|---------------------|-----------|-------|-------------|---------|------|---------|----------|------|---------------|-----------|
| | | Limit | Units | Factor | Analyst | Date | Batch | Date | Time | | |
| Sulfide-soluble | < 0.5 | 0.5 | ug/g | 1 | APA | | 1701210 | 5/9/17 | | SM4500-S2 D+F | |
| Ignitability | NonIgnitable | | | 1 | AM | | 1701309 | 5/16/17 | | SW1010 | |

Project ID: Jonesport

Job ID: 40133

Sample #: 40133-003

Sample ID: JP-WC-

Matrix: TCLP Extract

Sampled: 5/2/17 11:00

TCLP: 5/18/17

| Parameter | Reporting | | TCLP | Units | Instr Dil'n | | Prep | Analysis | | | |
|-----------|-----------|-------|-------|-------|-------------|---------|---------|----------|---------|-------|---------------------|
| | Result | Limit | Limit | | Factor | Analyst | Date | Batch | Date | Time | Reference |
| Lead | 1.4 | 0.050 | 5 | mg/L | 1 | AM | 5/23/17 | 9690 | 5/23/17 | 14:23 | SW1311 SW3005A6020A |

Quality Control Report



124 Heritage Avenue Unit 16
Portsmouth, NH 03801

www.absoluteresourceassociates.com



Case Narrative

Lab # 40133

Sample Receiving and Chain of Custody Discrepancies

Samples were received in acceptable condition, at 5 degrees C, on ice, and in accordance with sample handling, preservation and integrity guidelines.

Calibration

No exceptions noted.

Method Blank

No exceptions noted.

Surrogate Recoveries

VOC: The percent recovery for the surrogates 4-bromofluorobenzene and a,a,a-trifluorotoluene in sample 40133-001 were above the acceptance criteria. Since no targets were detected above the quantitation limit, there is no impact to the data.

Laboratory Control Sample Results

VOC: The MLCS9646 did not meet the acceptance criteria for hexachlorobutadiene. This compound showed high recovery. There is no impact to the data as this analyte was not detected in the associated samples.

Matrix Spike/Matrix Spike Duplicate/Duplicate Results

Not requested for this project.

Other

Reporting Limits: Dilutions performed during the analysis are noted on the result pages.

No other exceptions noted.

GLOSSARY

| | |
|-------|--|
| %R | Percent Recovery |
| BLK | Blank (Method Blank, Preparation Blank) |
| CCB | Continuing Calibration Blank |
| CCV | Continuing Calibration Verification |
| Dil'n | Dilution |
| DL | Detection Limit |
| DUP | Duplicate |
| LCS | Laboratory Control Sample |
| LCSD | Laboratory Control Sample Duplicate |
| LOD | Limit of Detection |
| LOQ | Limit of Quantitation |
| MB | Methanol Blank (associated with solid VOC samples) |
| MLCS | Methanol Laboratory Control Sample (associated with solid VOC samples) |
| MLCSD | Methanol Laboratory Control Sample Duplicate (associated with solid VOC samples) |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| PB | Preparation Blank |
| QC | Quality Control |
| RL | Reporting Limit |
| RPD | Relative Percent Difference |
| SUR | Surrogate |



124 Heritage Avenue Unit 16
Portsmouth, NH 03801

www.absoluteresourceassociates.com

- QC Report -

| Method | QC ID | Parameter | Associated Sample | Result | Units | Amt Added | %R | Limits | RPD | RPD Limit |
|--------------|--------|-----------------------------|-------------------|--------|-------|-----------|----|--------|-----|-----------|
| SW5035A8260C | MB9646 | dichlorodifluoromethane | | < | 0.1 | ug/g | | | | |
| | | chloromethane | | < | 0.1 | ug/g | | | | |
| | | vinyl chloride | | < | 0.1 | ug/g | | | | |
| | | bromomethane | | < | 0.2 | ug/g | | | | |
| | | chloroethane | | < | 0.1 | ug/g | | | | |
| | | trichlorofluoromethane | | < | 0.1 | ug/g | | | | |
| | | diethyl ether | | < | 0.5 | ug/g | | | | |
| | | acetone | | < | 2.5 | ug/g | | | | |
| | | 1,1-dichloroethene | | < | 0.1 | ug/g | | | | |
| | | methylene chloride | | < | 0.2 | ug/g | | | | |
| | | carbon disulfide | | < | 0.1 | ug/g | | | | |
| | | methyl t-butyl ether (MTBE) | | < | 0.1 | ug/g | | | | |
| | | trans-1,2-dichloroethene | | < | 0.1 | ug/g | | | | |
| | | 1,1-dichloroethane | | < | 0.1 | ug/g | | | | |
| | | 2-butanone (MEK) | | < | 0.3 | ug/g | | | | |
| | | 2,2-dichloropropane | | < | 0.1 | ug/g | | | | |
| | | cis-1,2-dichloroethene | | < | 0.1 | ug/g | | | | |
| | | chloroform | | < | 0.1 | ug/g | | | | |
| | | bromochloromethane | | < | 0.1 | ug/g | | | | |
| | | tetrahydrofuran (THF) | | < | 0.5 | ug/g | | | | |
| | | 1,1,1-trichloroethane | | < | 0.1 | ug/g | | | | |
| | | 1,1-dichloropropene | | < | 0.1 | ug/g | | | | |
| | | carbon tetrachloride | | < | 0.1 | ug/g | | | | |
| | | 1,2-dichloroethane | | < | 0.1 | ug/g | | | | |
| | | benzene | | < | 0.1 | ug/g | | | | |
| | | trichloroethene | | < | 0.1 | ug/g | | | | |
| | | 1,2-dichloropropane | | < | 0.1 | ug/g | | | | |
| | | bromodichloromethane | | < | 0.1 | ug/g | | | | |
| | | dibromomethane | | < | 0.1 | ug/g | | | | |
| | | 4-methyl-2-pentanone (MIBK) | | < | 0.4 | ug/g | | | | |
| | | cis-1,3-dichloropropene | | < | 0.1 | ug/g | | | | |
| | | toluene | | < | 0.1 | ug/g | | | | |
| | | trans-1,3-dichloropropene | | < | 0.1 | ug/g | | | | |
| | | 2-hexanone | | < | 0.5 | ug/g | | | | |
| | | 1,1,2-trichloroethane | | < | 0.1 | ug/g | | | | |
| | | 1,3-dichloropropane | | < | 0.1 | ug/g | | | | |
| | | tetrachloroethene | | < | 0.1 | ug/g | | | | |
| | | dibromochloromethane | | < | 0.1 | ug/g | | | | |
| | | 1,2-dibromoethane (EDB) | | < | 0.1 | ug/g | | | | |
| | | chlorobenzene | | < | 0.1 | ug/g | | | | |
| | | 1,1,1,2-tetrachloroethane | | < | 0.1 | ug/g | | | | |
| | | ethylbenzene | | < | 0.1 | ug/g | | | | |
| | | m&p-xylenes | | < | 0.1 | ug/g | | | | |
| | | o-xylene | | < | 0.1 | ug/g | | | | |
| | | styrene | | < | 0.1 | ug/g | | | | |
| | | bromoform | | < | 0.1 | ug/g | | | | |
| | | isopropylbenzene | | < | 0.1 | ug/g | | | | |
| | | 1,1,1,2-tetrachloroethane | | < | 0.1 | ug/g | | | | |
| | | 1,2,3-trichloropropane | | < | 0.1 | ug/g | | | | |
| | | n-propylbenzene | | < | 0.1 | ug/g | | | | |

| Method | QC ID | Parameter | Associated Sample | Result | Units | Amt Added | %R | Limits | RPD | RPD Limit |
|--------------|--------|------------------------------------|-------------------|--------|-------|-----------|----|--------|-----|-----------|
| SW5035A8260C | MB9646 | bromobenzene | | < | 0.1 | ug/g | | | | |
| | | 1,3,5-trimethylbenzene | | < | 0.1 | ug/g | | | | |
| | | 2-chlorotoluene | | < | 0.1 | ug/g | | | | |
| | | 4-chlorotoluene | | < | 0.1 | ug/g | | | | |
| | | tert-butylbenzene | | < | 0.1 | ug/g | | | | |
| | | 1,2,4-trimethylbenzene | | < | 0.1 | ug/g | | | | |
| | | sec-butylbenzene | | < | 0.1 | ug/g | | | | |
| | | 1,3-dichlorobenzene | | < | 0.1 | ug/g | | | | |
| | | 4-isopropyltoluene | | < | 0.1 | ug/g | | | | |
| | | 1,4-dichlorobenzene | | < | 0.1 | ug/g | | | | |
| | | 1,2-dichlorobenzene | | < | 0.1 | ug/g | | | | |
| | | n-butylbenzene | | < | 0.1 | ug/g | | | | |
| | | 1,2-dibromo-3-chloropropane (DBCP) | | < | 0.1 | ug/g | | | | |
| | | 1,2,4-trichlorobenzene | | < | 0.1 | ug/g | | | | |
| | | hexachlorobutadiene | | < | 0.1 | ug/g | | | | |
| | | naphthalene | | < | 0.2 | ug/g | | | | |
| | | 1,2,3-trichlorobenzene | | < | 0.1 | ug/g | | | | |
| | | dibromofluoromethane SUR | | | 102 | % | | 78 | 114 | |
| | | toluene-D8 SUR | | | 99 | % | | 88 | 110 | |
| | | 4-bromofluorobenzene SUR | | | 114 | % | | 86 | 115 | |
| | | a,a,a-trifluorotoluene SUR | | | 126 | % | | 70 | 130 | |

| Method | QC ID | Parameter | Associated Sample | Result | Units | Amt Added | %R | Limits | RPD | RPD Limit |
|--------------|----------|-----------------------------|-------------------|--------|-------|-----------|-----|--------|-----|-----------|
| SW5035A8260C | MLCS9646 | dichlorodifluoromethane | | 0.8 | ug/g | 1 | 79 | 70 | 130 | |
| | | chloromethane | | 0.8 | ug/g | 1 | 84 | 70 | 130 | |
| | | vinyl chloride | | 0.9 | ug/g | 1 | 92 | 70 | 130 | |
| | | bromomethane | | 0.9 | ug/g | 1 | 94 | 70 | 130 | |
| | | chloroethane | | 1.0 | ug/g | 1 | 96 | 70 | 130 | |
| | | trichlorofluoromethane | | 1.1 | ug/g | 1 | 108 | 70 | 130 | |
| | | diethyl ether | | 0.9 | ug/g | 1 | 93 | 70 | 130 | |
| | | acetone | < | 2.5 | ug/g | 1 | 104 | | | |
| | | 1,1-dichloroethene | | 0.8 | ug/g | 1 | 82 | 70 | 130 | |
| | | methylene chloride | | 0.9 | ug/g | 1 | 88 | 70 | 130 | |
| | | carbon disulfide | | 1.0 | ug/g | 1 | 98 | 70 | 130 | |
| | | methyl t-butyl ether (MTBE) | | 1.1 | ug/g | 1 | 106 | 70 | 130 | |
| | | trans-1,2-dichloroethene | | 0.9 | ug/g | 1 | 86 | 70 | 130 | |
| | | 1,1-dichloroethane | | 0.8 | ug/g | 1 | 84 | 70 | 130 | |
| | | 2-butanone (MEK) | | 1.0 | ug/g | 1 | 98 | 70 | 130 | |
| | | 2,2-dichloropropane | | 1.0 | ug/g | 1 | 96 | 70 | 130 | |
| | | cis-1,2-dichloroethene | | 0.8 | ug/g | 1 | 85 | 70 | 130 | |
| | | chloroform | | 0.9 | ug/g | 1 | 92 | 70 | 130 | |
| | | bromochloromethane | | 1.0 | ug/g | 1 | 95 | 70 | 130 | |
| | | tetrahydrofuran (THF) | | 0.9 | ug/g | 1 | 85 | 70 | 130 | |
| | | 1,1,1-trichloroethane | | 1.0 | ug/g | 1 | 103 | 70 | 130 | |
| | | 1,1-dichloropropene | | 0.9 | ug/g | 1 | 92 | 70 | 130 | |
| | | carbon tetrachloride | | 0.9 | ug/g | 1 | 91 | 70 | 130 | |
| | | 1,2-dichloroethane | | 1.0 | ug/g | 1 | 102 | 70 | 130 | |
| | | benzene | | 0.8 | ug/g | 1 | 83 | 70 | 130 | |
| | | trichloroethene | | 0.9 | ug/g | 1 | 92 | 70 | 130 | |
| | | 1,2-dichloropropane | | 0.8 | ug/g | 1 | 83 | 70 | 130 | |
| | | bromodichloromethane | | 1.0 | ug/g | 1 | 99 | 70 | 130 | |
| | | dibromomethane | | 0.9 | ug/g | 1 | 89 | 70 | 130 | |
| | | 4-methyl-2-pentanone (MIBK) | | 0.9 | ug/g | 1 | 85 | 70 | 130 | |
| | | cis-1,3-dichloropropene | | 0.9 | ug/g | 1 | 87 | 70 | 130 | |
| | | toluene | | 0.9 | ug/g | 1 | 91 | 70 | 130 | |
| | | trans-1,3-dichloropropene | | 0.9 | ug/g | 1 | 92 | 70 | 130 | |
| | | 2-hexanone | | 0.8 | ug/g | 1 | 82 | 70 | 130 | |
| | | 1,1,2-trichloroethane | | 0.9 | ug/g | 1 | 94 | 70 | 130 | |
| | | 1,3-dichloropropane | | 0.9 | ug/g | 1 | 94 | 70 | 130 | |
| | | tetrachloroethene | | 1.1 | ug/g | 1 | 108 | 70 | 130 | |
| | | dibromochloromethane | | 0.9 | ug/g | 1 | 89 | 70 | 130 | |
| | | 1,2-dibromoethane (EDB) | | 1.0 | ug/g | 1 | 101 | 70 | 130 | |
| | | chlorobenzene | | 1.0 | ug/g | 1 | 96 | 70 | 130 | |
| | | 1,1,1,2-tetrachloroethane | | 0.9 | ug/g | 1 | 94 | 70 | 130 | |
| | | ethylbenzene | | 1.0 | ug/g | 1 | 98 | 70 | 130 | |
| | | m&p-xylenes | | 1.9 | ug/g | 2 | 97 | 70 | 130 | |
| | | o-xylene | | 1.0 | ug/g | 1 | 100 | 70 | 130 | |
| | | styrene | | 1.0 | ug/g | 1 | 102 | 70 | 130 | |
| | | bromoform | | 1.1 | ug/g | 1 | 110 | 70 | 130 | |
| | | isopropylbenzene | | 1.0 | ug/g | 1 | 104 | 70 | 130 | |
| | | 1,1,1,2-tetrachloroethane | | 0.9 | ug/g | 1 | 88 | 70 | 130 | |
| | | 1,2,3-trichloropropane | | 1.0 | ug/g | 1 | 96 | 70 | 130 | |
| | | n-propylbenzene | | 0.9 | ug/g | 1 | 93 | 70 | 130 | |
| | | bromobenzene | | 1.0 | ug/g | 1 | 99 | 70 | 130 | |

| Method | QC ID | Parameter | Associated Sample | Result | Units | Amt Added | %R | Limits | RPD | RPD Limit |
|--------------|----------|------------------------------------|-------------------|--------|-------|-----------|-------|--------|-----|-----------|
| SW5035A8260C | MLCS9646 | 1,3,5-trimethylbenzene | | 1.0 | ug/g | 1 | 99 | 70 | 130 | |
| | | 2-chlorotoluene | | 0.9 | ug/g | 1 | 89 | 70 | 130 | |
| | | 4-chlorotoluene | | 1.0 | ug/g | 1 | 102 | 70 | 130 | |
| | | tert-butylbenzene | | 1.0 | ug/g | 1 | 99 | 70 | 130 | |
| | | 1,2,4-trimethylbenzene | | 1.0 | ug/g | 1 | 101 | 70 | 130 | |
| | | sec-butylbenzene | | 1.0 | ug/g | 1 | 96 | 70 | 130 | |
| | | 1,3-dichlorobenzene | | 1.1 | ug/g | 1 | 107 | 70 | 130 | |
| | | 4-isopropyltoluene | | 1.0 | ug/g | 1 | 105 | 70 | 130 | |
| | | 1,4-dichlorobenzene | | 1.1 | ug/g | 1 | 108 | 70 | 130 | |
| | | 1,2-dichlorobenzene | | 1.1 | ug/g | 1 | 109 | 70 | 130 | |
| | | n-butylbenzene | | 1.0 | ug/g | 1 | 102 | 70 | 130 | |
| | | 1,2-dibromo-3-chloropropane (DBCP) | | 1.1 | ug/g | 1 | 110 | 70 | 130 | |
| | | 1,2,4-trichlorobenzene | | 1.3 | ug/g | 1 | 125 | 70 | 130 | |
| | | hexachlorobutadiene | | 1.3 | ug/g | 1 | 133 * | 70 | 130 | |
| | | naphthalene | | 1.1 | ug/g | 1 | 111 | 70 | 130 | |
| | | 1,2,3-trichlorobenzene | | 1.2 | ug/g | 1 | 117 | 70 | 130 | |
| | | dibromofluoromethane SUR | | 100 | % | | | 78 | 114 | |
| | | toluene-D8 SUR | | 97 | % | | | 88 | 110 | |
| | | 4-bromofluorobenzene SUR | | 115 | % | | | 86 | 115 | |
| | | a,a,a-trifluorotoluene SUR | | 112 | % | | | 70 | 130 | |

| Method | QC ID | Parameter | Associated Sample | Result | Units | Amt Added | %R | Limits | RPD | RPD Limit |
|--------------|-----------|-----------------------------|-------------------|--------|-------|-----------|-----|--------|-----|-----------|
| SW5035A8260C | MLCSD9646 | dichlorodifluoromethane | | 0.7 | ug/g | 1 | 73 | 70 130 | 9 | 30 |
| | | chloromethane | | 0.9 | ug/g | 1 | 87 | 70 130 | 4 | 30 |
| | | vinyl chloride | | 0.9 | ug/g | 1 | 91 | 70 130 | 1 | 30 |
| | | bromomethane | | 1.0 | ug/g | 1 | 99 | 70 130 | 5 | 30 |
| | | chloroethane | | 0.9 | ug/g | 1 | 92 | 70 130 | 4 | 30 |
| | | trichlorofluoromethane | | 1.0 | ug/g | 1 | 102 | 70 130 | 5 | 30 |
| | | diethyl ether | | 0.9 | ug/g | 1 | 89 | 70 130 | 4 | 30 |
| | | acetone | < | 2.5 | ug/g | 1 | 92 | | 13 | 30 |
| | | 1,1-dichloroethene | | 0.8 | ug/g | 1 | 85 | 70 130 | 4 | 30 |
| | | methylene chloride | | 0.9 | ug/g | 1 | 94 | 70 130 | 6 | 30 |
| | | carbon disulfide | | 1.0 | ug/g | 1 | 97 | 70 130 | 1 | 30 |
| | | methyl t-butyl ether (MTBE) | | 1.0 | ug/g | 1 | 102 | 70 130 | 4 | 30 |
| | | trans-1,2-dichloroethene | | 0.9 | ug/g | 1 | 89 | 70 130 | 4 | 30 |
| | | 1,1-dichloroethane | | 0.9 | ug/g | 1 | 91 | 70 130 | 9 | 30 |
| | | 2-butanone (MEK) | | 0.9 | ug/g | 1 | 94 | 70 130 | 4 | 30 |
| | | 2,2-dichloropropane | | 1.0 | ug/g | 1 | 101 | 70 130 | 5 | 30 |
| | | cis-1,2-dichloroethene | | 0.9 | ug/g | 1 | 89 | 70 130 | 5 | 30 |
| | | chloroform | | 1.0 | ug/g | 1 | 98 | 70 130 | 7 | 30 |
| | | bromochloromethane | | 1.0 | ug/g | 1 | 95 | 70 130 | 0 | 30 |
| | | tetrahydrofuran (THF) | | 0.9 | ug/g | 1 | 86 | 70 130 | 0 | 30 |
| | | 1,1,1-trichloroethane | | 1.1 | ug/g | 1 | 105 | 70 130 | 2 | 30 |
| | | 1,1-dichloropropene | | 0.9 | ug/g | 1 | 94 | 70 130 | 2 | 30 |
| | | carbon tetrachloride | | 0.9 | ug/g | 1 | 93 | 70 130 | 3 | 30 |
| | | 1,2-dichloroethane | | 1.0 | ug/g | 1 | 104 | 70 130 | 2 | 30 |
| | | benzene | | 0.9 | ug/g | 1 | 89 | 70 130 | 6 | 30 |
| | | trichloroethene | | 1.0 | ug/g | 1 | 95 | 70 130 | 3 | 30 |
| | | 1,2-dichloropropane | | 0.9 | ug/g | 1 | 87 | 70 130 | 5 | 30 |
| | | bromodichloromethane | | 1.0 | ug/g | 1 | 104 | 70 130 | 4 | 30 |
| | | dibromomethane | | 0.9 | ug/g | 1 | 93 | 70 130 | 5 | 30 |
| | | 4-methyl-2-pentanone (MIBK) | | 0.8 | ug/g | 1 | 82 | 70 130 | 4 | 30 |
| | | cis-1,3-dichloropropene | | 0.9 | ug/g | 1 | 92 | 70 130 | 5 | 30 |
| | | toluene | | 0.9 | ug/g | 1 | 94 | 70 130 | 3 | 30 |
| | | trans-1,3-dichloropropene | | 0.9 | ug/g | 1 | 95 | 70 130 | 3 | 30 |
| | | 2-hexanone | | 0.8 | ug/g | 1 | 84 | 70 130 | 2 | 30 |
| | | 1,1,2-trichloroethane | | 1.0 | ug/g | 1 | 98 | 70 130 | 3 | 30 |
| | | 1,3-dichloropropane | | 1.0 | ug/g | 1 | 102 | 70 130 | 7 | 30 |
| | | tetrachloroethene | | 1.1 | ug/g | 1 | 114 | 70 130 | 5 | 30 |
| | | dibromochloromethane | | 0.9 | ug/g | 1 | 92 | 70 130 | 4 | 30 |
| | | 1,2-dibromoethane (EDB) | | 1.0 | ug/g | 1 | 104 | 70 130 | 3 | 30 |
| | | chlorobenzene | | 1.0 | ug/g | 1 | 101 | 70 130 | 5 | 30 |
| | | 1,1,1,2-tetrachloroethane | | 1.0 | ug/g | 1 | 98 | 70 130 | 4 | 30 |
| | | ethylbenzene | | 1.0 | ug/g | 1 | 103 | 70 130 | 5 | 30 |
| | | m&p-xylenes | | 2.1 | ug/g | 2 | 104 | 70 130 | 6 | 30 |
| | | o-xylene | | 1.1 | ug/g | 1 | 106 | 70 130 | 6 | 30 |
| | | styrene | | 1.1 | ug/g | 1 | 106 | 70 130 | 3 | 30 |
| | | bromoform | | 1.1 | ug/g | 1 | 111 | 70 130 | 2 | 30 |
| | | isopropylbenzene | | 1.1 | ug/g | 1 | 109 | 70 130 | 5 | 30 |
| | | 1,1,1,2-tetrachloroethane | | 0.9 | ug/g | 1 | 93 | 70 130 | 6 | 30 |
| | | 1,2,3-trichloropropane | | 1.0 | ug/g | 1 | 103 | 70 130 | 7 | 30 |
| | | n-propylbenzene | | 1.0 | ug/g | 1 | 99 | 70 130 | 6 | 30 |
| | | bromobenzene | | 1.1 | ug/g | 1 | 106 | 70 130 | 6 | 30 |

| Method | QC ID | Parameter | Associated Sample | Result | Units | Amt Added | %R | Limits | RPD | RPD Limit |
|--------------|-----------|------------------------------------|-------------------|--------|-------|-----------|-----|--------|-----|-----------|
| SW5035A8260C | MLCSD9646 | 1,3,5-trimethylbenzene | | 1.0 | ug/g | 1 | 103 | 70 130 | 4 | 30 |
| | | 2-chlorotoluene | | 1.0 | ug/g | 1 | 97 | 70 130 | 9 | 30 |
| | | 4-chlorotoluene | | 1.0 | ug/g | 1 | 98 | 70 130 | 3 | 30 |
| | | tert-butylbenzene | | 1.0 | ug/g | 1 | 102 | 70 130 | 3 | 30 |
| | | 1,2,4-trimethylbenzene | | 1.0 | ug/g | 1 | 103 | 70 130 | 2 | 30 |
| | | sec-butylbenzene | | 1.0 | ug/g | 1 | 99 | 70 130 | 3 | 30 |
| | | 1,3-dichlorobenzene | | 1.1 | ug/g | 1 | 112 | 70 130 | 4 | 30 |
| | | 4-isopropyltoluene | | 1.1 | ug/g | 1 | 108 | 70 130 | 3 | 30 |
| | | 1,4-dichlorobenzene | | 1.1 | ug/g | 1 | 111 | 70 130 | 3 | 30 |
| | | 1,2-dichlorobenzene | | 1.1 | ug/g | 1 | 113 | 70 130 | 4 | 30 |
| | | n-butylbenzene | | 1.0 | ug/g | 1 | 105 | 70 130 | 3 | 30 |
| | | 1,2-dibromo-3-chloropropane (DBCP) | | 1.1 | ug/g | 1 | 110 | 70 130 | 0 | 30 |
| | | 1,2,4-trichlorobenzene | | 1.2 | ug/g | 1 | 119 | 70 130 | 5 | 30 |
| | | hexachlorobutadiene | | 1.3 | ug/g | 1 | 129 | 70 130 | 3 | 30 |
| | | naphthalene | | 1.1 | ug/g | 1 | 109 | 70 130 | 1 | 30 |
| | | 1,2,3-trichlorobenzene | | 1.1 | ug/g | 1 | 114 | 70 130 | 2 | 30 |
| | | dibromofluoromethane SUR | | 106 | % | | | 78 114 | | |
| | | toluene-D8 SUR | | 100 | % | | | 88 110 | | |
| | | 4-bromofluorobenzene SUR | | 113 | % | | | 86 115 | | |
| | | a,a,a-trifluorotoluene SUR | | 109 | % | | | 70 130 | | |

| Method | QC ID | Parameter | Associated Sample | Result | Units | Amt Added | %R | Limits | RPD | RPD Limit |
|--------------|----------|-----------|-------------------|---------|-------|-----------|-----|-----------|-----|-----------|
| SW3005A6020A | BLK9690 | Lead | | < 0.005 | mg/L | | | | | |
| SW3005A6020A | LCS9690 | Lead | | 0.53 | mg/L | 0.5 | 106 | 80 120 | | |
| SW3005A6020A | LCSD9690 | Lead | | 0.53 | mg/L | 0.5 | 106 | 80 120 | 0 | 20 |
| SW3051A6020A | BLK9647 | Silver | | < 2.5 | ug/g | | | | | |
| | | Arsenic | | < 2.5 | ug/g | | | | | |
| | | Barium | | < 5.0 | ug/g | | | | | |
| | | Cadmium | | < 0.50 | ug/g | | | | | |
| | | Chromium | | < 5.0 | ug/g | | | | | |
| | | Lead | | < 2.5 | ug/g | | | | | |
| | | Selenium | | < 5.0 | ug/g | | | | | |
| SW3051A6020A | CRM9647 | Silver | | 138 | ug/g | 114 | | 83.6 144 | | |
| | | Arsenic | | 65.5 | ug/g | 52.3 | | 22.4 82.2 | | |
| | | Barium | | 177 | ug/g | 145 | | 100 189 | | |
| | | Cadmium | | 75.4 | ug/g | 71.6 | | 58.9 84.3 | | |
| | | Chromium | | 95.9 | ug/g | 88.5 | | 59.2 118 | | |
| | | Lead | | 84.9 | ug/g | 77.8 | | 66.7 88.9 | | |
| | | Selenium | | 89.8 | ug/g | 81.1 | | 58.2 104 | | |
| SW3051A6020A | CRMD9647 | Silver | | 131 | ug/g | 114 | | 83.6 144 | 3 | 35 |
| | | Arsenic | | 61.7 | ug/g | 52.3 | | 22.4 82.2 | 4 | 35 |
| | | Barium | | 184 | ug/g | 145 | | 100 189 | 4 | 35 |
| | | Cadmium | | 76.0 | ug/g | 71.6 | | 58.9 84.3 | 3 | 35 |
| | | Chromium | | 96.8 | ug/g | 88.5 | | 59.2 118 | 3 | 35 |
| | | Lead | | 88.4 | ug/g | 77.8 | | 66.7 88.9 | 6 | 35 |
| | | Selenium | | 90.4 | ug/g | 81.1 | | 58.2 104 | 3 | 35 |
| SW3051A6020A | DUP9647 | Silver | 40096-004 | < 3.1 | ug/g | | | | | 20 |
| | | Arsenic | 40096-004 | < 3.1 | ug/g | | | | | 20 |
| | | Barium | 40096-004 | 29 | ug/g | | | | 5 | 20 |
| | | Cadmium | 40096-004 | < 0.62 | ug/g | | | | | 20 |
| | | Chromium | 40096-004 | 9.2 | ug/g | | | | 2 | 20 |
| | | Lead | 40096-004 | 5.0 | ug/g | | | | 24 | 20 |
| | | Selenium | 40096-004 | < 6.2 | ug/g | | | | | 20 |
| SW3051A6020A | MS9647 | Silver | 40096-004 | 150 | ug/g | 146 | 99 | 75 125 | | |
| | | Arsenic | 40096-004 | 260 | ug/g | 293 | 87 | 75 125 | | |
| | | Barium | 40096-004 | 330 | ug/g | 293 | 104 | 75 125 | | |
| | | Cadmium | 40096-004 | 330 | ug/g | 293 | 112 | 75 125 | | |
| | | Chromium | 40096-004 | 290 | ug/g | 293 | 96 | 75 125 | | |
| | | Lead | 40096-004 | 330 | ug/g | 293 | 109 | 75 125 | | |
| | | Selenium | 40096-004 | 240 | ug/g | 293 | 83 | 75 125 | | |

| Method | QC ID | Parameter | Associated Sample | Result | Units | Amt Added | %R | Limits | RPD | RPD Limit |
|---------|----------|-----------|-------------------|--------|-------|-----------|-----|--------------|-----|-----------|
| SW7471B | BLK9641 | Mercury | | < 0.14 | ug/g | | | | | |
| SW7471B | CRM9641 | Mercury | | 0.18 | ug/g | 0.22 | | 0.0908 0.351 | | |
| SW7471B | CRMD9641 | Mercury | | 0.18 | ug/g | 0.22 | | 0.0908 0.351 | 2 | 35 |
| SW7471B | DUP9641 | Mercury | 40084-001 | < 0.77 | ug/g | | | | | 35 |
| SW7471B | MS9641 | Mercury | 40084-001 | 2.1 | ug/g | 1.58 | 109 | 80 120 | | |
| SW7471B | MS9641 | Mercury | 40097-005 | 0.68 | ug/g | 0.447 | 114 | 80 120 | | |

| Method | QC ID | Parameter | Associated Sample | Result | Units | Amt Added | %R | Limits | RPD | RPD Limit |
|---------------|-------------|-----------------|-------------------|--------|-------|-----------|----|--------|-----|-----------|
| SM4500-S2 D+F | LCS1701210 | Sulfide-soluble | | 9.4 | ug/g | 10 | 94 | 90 | 110 | |
| SM4500-S2 D+F | LCSD1701210 | Sulfide-soluble | | 9.3 | ug/g | 10 | 93 | 90 | 110 | 10 |
| SM4500-S2 D+F | PB1701210 | Sulfide-soluble | < | 0.4 | ug/g | | | | | |

Attachment D

Composite Soil (12 -24" Depth) & Clean Fill Analytical Results



Laboratory Report



Absolute Resource *associates*

124 Heritage Avenue Portsmouth NH 03801

Sean McNamara
CREDERE Associates
776 Main Street
Westbrook, ME 04092

PO Number: None
Job ID: 40642
Date Received: 6/14/17

Project: USCG Jonesport

Attached please find results for the analysis of the samples received on the date referenced above.

Unless otherwise noted in the attached report, the analyses performed met the requirements of Absolute Resource Associates' Quality Assurance Plan. The Standard Operating Procedures are based upon USEPA SW-846, USEPA Methods for Chemical Analysis of Water and Wastewater, Standard Methods for the Examination of Water and Wastewater and other recognized methodologies. The results contained in this report pertain only to the samples as indicated on the chain of custody.

Absolute Resource Associates maintains certification with the agencies listed below.

We appreciate the opportunity to provide laboratory services. If you have any questions regarding the enclosed report, please contact the laboratory and we will be glad to assist you.

Sincerely,
Absolute Resource Associates

A handwritten signature in black ink that reads "Sue Sylvester (for)". The signature is written in a cursive, flowing style.

Sue Sylvester
Principal, General Manager

Date of Approval: 6/20/2017
Total number of pages: 8

Absolute Resource Associates Certifications

New Hampshire 1732
Maine NH903

Massachusetts M-NH902

Sample Association Table

| Field ID | Matrix | Date-Time Sampled | Lab# | Analysis |
|--------------|--------|-------------------|-----------|--|
| USCG-(12-24) | Solid | 6/12/2017 15:30 | 40642-001 | Solid Digestion for ICP Analysis Lead in solids by 6020 Percent Dry Matter for Sample Calc by SM2540B,G |
| Mark's Mix | Solid | 6/12/2017 16:30 | 40642-002 | Solid Digestion for ICP Analysis Silver in solids by 6020 Arsenic in solids by 6020 Barium in solids by 6020 Cadmium in solids by 6020 Chromium in solids by 6020 Mercury in solids by 7471 Lead in solids by 6020 Selenium in solids by 6020 Percent Dry Matter for Sample Calc by SM2540B,G |

Project ID: USCG Jonesport

Job ID: 40642

Sample#: 40642-001

Sample ID: USCG-(12-24)

Matrix: Solid Percent Dry: 84.1% Results expressed on a dry weight basis.

Sampled: 6/12/17 15:30

| Parameter | Result | Reporting | | Instr Dil'n | | Prep | | Analysis | | |
|-----------|--------|-----------|-------|-------------|---------|---------|-------|----------|-------|--------------|
| | | Limit | Units | Factor | Analyst | Date | Batch | Date | Time | Reference |
| Lead | 87 | 2.5 | ug/g | 5 | AM | 6/15/17 | 9778 | 6/15/17 | 21:05 | SW3051A6020A |

Sample#: 40642-002

Sample ID: Mark's Mix

Matrix: Solid Percent Dry: 68.4% Results expressed on a dry weight basis.

Sampled: 6/12/17 16:30

| Parameter | Result | Reporting | | Instr Dil'n | | Prep | | Analysis | | |
|-----------|--------|-----------|-------|-------------|---------|---------|-------|----------|-------|--------------|
| | | Limit | Units | Factor | Analyst | Date | Batch | Date | Time | Reference |
| Arsenic | 4.0 | 3.4 | ug/g | 5 | AM | 6/15/17 | 9778 | 6/15/17 | 21:12 | SW3051A6020A |
| Barium | 90 | 7 | ug/g | 5 | AM | 6/15/17 | 9778 | 6/15/17 | 21:12 | SW3051A6020A |
| Cadmium | < 0.7 | 0.7 | ug/g | 5 | AM | 6/15/17 | 9778 | 6/15/17 | 21:12 | SW3051A6020A |
| Chromium | 8 | 7 | ug/g | 5 | AM | 6/15/17 | 9778 | 6/15/17 | 21:12 | SW3051A6020A |
| Lead | 7.4 | 3.4 | ug/g | 5 | AM | 6/15/17 | 9778 | 6/15/17 | 21:12 | SW3051A6020A |
| Mercury | < 0.21 | 0.21 | ug/g | 1 | AM | 6/14/17 | 9770 | 6/16/17 | 10:42 | SW7471B |
| Selenium | < 7 | 7 | ug/g | 5 | AM | 6/15/17 | 9778 | 6/15/17 | 21:12 | SW3051A6020A |
| Silver | < 3.4 | 3.4 | ug/g | 5 | AM | 6/15/17 | 9778 | 6/15/17 | 21:12 | SW3051A6020A |

Quality Control Report



124 Heritage Avenue Unit 16
Portsmouth, NH 03801
www.absoluteresourceassociates.com



Case Narrative

Lab # 40642

Sample Receiving and Chain of Custody Discrepancies

Samples were received in acceptable condition, at 3 degrees C, on ice, and in accordance with sample handling, preservation and integrity guidelines.

Calibration

No exceptions noted.

Method Blank

No exceptions noted.

Surrogate Recoveries

No exceptions noted.

Laboratory Control Sample Results

Metals: The CRMD9778 showed high recovery for Selenium. The recovery was acceptable in the CRM. There is no impact to the data, as this analyte was not found in the field samples.

Matrix Spike/Matrix Spike Duplicate/Duplicate Results

No exceptions noted.

Other

Reporting Limits: Dilutions performed during the analysis are noted on the result pages.

No other exceptions noted.

GLOSSARY

| | |
|-------|--|
| %R | Percent Recovery |
| BLK | Blank (Method Blank, Preparation Blank) |
| CCB | Continuing Calibration Blank |
| CCV | Continuing Calibration Verification |
| Dil'n | Dilution |
| DL | Detection Limit |
| DUP | Duplicate |
| LCS | Laboratory Control Sample |
| LCSD | Laboratory Control Sample Duplicate |
| LOD | Limit of Detection |
| LOQ | Limit of Quantitation |
| MB | Methanol Blank (associated with solid VOC samples) |
| MLCS | Methanol Laboratory Control Sample (associated with solid VOC samples) |
| MLCSD | Methanol Laboratory Control Sample Duplicate (associated with solid VOC samples) |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| PB | Preparation Blank |
| QC | Quality Control |
| RL | Reporting Limit |
| RPD | Relative Percent Difference |
| SUR | Surrogate |



124 Heritage Avenue Unit 16
Portsmouth, NH 03801

www.absoluteresourceassociates.com

- QC Report -

| Method | QC ID | Parameter | Associated Sample | Result | Units | Amt Added | %R | Limits | RPD | RPD Limit | |
|--------------|----------|-----------|-------------------|--------|-------|-----------|-----|--------|-------|-----------|----|
| SW3051A6020A | BLK9778 | Silver | | < | 2.5 | ug/g | | | | | |
| | | Arsenic | | < | 2.5 | ug/g | | | | | |
| | | Barium | | < | 5.0 | ug/g | | | | | |
| | | Cadmium | | < | 0.50 | ug/g | | | | | |
| | | Chromium | | < | 5.0 | ug/g | | | | | |
| | | Lead | | < | 2.5 | ug/g | | | | | |
| | | Selenium | | < | 5.0 | ug/g | | | | | |
| SW3051A6020A | CRM9778 | Silver | | 135 | ug/g | 114 | | 83.6 | 144 | | |
| | | Arsenic | | 61.4 | ug/g | 52.3 | | 22.4 | 82.2 | | |
| | | Barium | | 173 | ug/g | 145 | | 100 | 189 | | |
| | | Cadmium | | 71.5 | ug/g | 71.6 | | 57.28 | 85.92 | | |
| | | Chromium | | 96.9 | ug/g | 88.5 | | 59.2 | 118 | | |
| | | Lead | | 83.0 | ug/g | 77.8 | | 62.24 | 93.36 | | |
| | | Selenium | | 93.7 | ug/g | 81.1 | | 58.2 | 104 | | |
| SW3051A6020A | CRMD9778 | Silver | | 136 | ug/g | 114 | | 83.6 | 144 | 0 | 35 |
| | | Arsenic | | 61.2 | ug/g | 52.3 | | 22.4 | 82.2 | 0 | 35 |
| | | Barium | | 173 | ug/g | 145 | | 100 | 189 | 0 | 35 |
| | | Cadmium | | 70.7 | ug/g | 71.6 | | 57.28 | 85.92 | 1 | 35 |
| | | Chromium | | 96.6 | ug/g | 88.5 | | 59.2 | 118 | 0 | 35 |
| | | Lead | | 82.4 | ug/g | 77.8 | | 62.24 | 93.36 | 1 | 35 |
| | | Selenium | | 121 | ug/g | 81.1 | | * 58.2 | 104 | 25 | 35 |
| SW7471B | BLK9770 | Mercury | | < | 0.14 | ug/g | | | | | |
| SW7471B | CRM9770 | Mercury | | 0.16 | ug/g | 0.22 | | 0.0908 | 0.351 | | |
| SW7471B | CRMD9770 | Mercury | | 0.16 | ug/g | 0.22 | | 0.0908 | 0.351 | 4 | 35 |
| SW7471B | DUP9770 | Mercury | 40642-002 | < | 0.20 | ug/g | | | | | 35 |
| SW7471B | MS9770 | Mercury | 40642-002 | 0.69 | ug/g | 0.433 | 112 | 80 | 120 | | |

Absolute Resource
associates



124 Heritage Avenue #16
Portsmouth, NH 03801
603-436-2001

absoluteresourceassociates.com

**CHAIN-OF-CUSTODY RECORD
AND ANALYSIS REQUEST**

40642

ANALYSIS REQUEST

Company Name: Credore Associates
 Company Address: 776 Main St. Westboro, MA
 Report To: Sean McNamee
 Phone #: 207-828-1272
 Invoice to Email: smcnamwa@credorellc.com
 Hard Copy Invoice Required

Project Name: USGC Transport
 Project #: _____
 Project Location: NH MA ME VT NY Other _____
 Protocol: RCRA SDWA NPDES
MCP NHDES OTHER
 Reporting Limits: QAPP GW-1 S-1
 EPA DW Other _____
 Quote # _____ NH Reimbursement Pricing
 PO # _____

| | |
|--|--|
| <input type="checkbox"/> VOC 8260 | <input type="checkbox"/> VOC 8260 MADEP |
| <input type="checkbox"/> VOC 624 | <input type="checkbox"/> VOC BTEX |
| <input type="checkbox"/> VPH MADEP | <input type="checkbox"/> GRO 8015 |
| <input type="checkbox"/> VOC 524.2 | <input type="checkbox"/> VOC 524.2 NH List |
| <input type="checkbox"/> TPH | <input type="checkbox"/> DR0 8015 |
| <input type="checkbox"/> 8270PAH | <input type="checkbox"/> 8270ABN |
| <input type="checkbox"/> 8082 PCB | <input type="checkbox"/> 8081 Pesticides |
| <input type="checkbox"/> O&G 1664 | <input type="checkbox"/> Mineral O&G SM5520F |
| <input type="checkbox"/> pH | <input type="checkbox"/> BOD |
| <input type="checkbox"/> TSS | <input type="checkbox"/> TDS |
| <input checked="" type="checkbox"/> RCRA Metals | <input type="checkbox"/> Priority Pollutant Metals |
| <input checked="" type="checkbox"/> Total Metals-list: <u>Lead</u> | <input type="checkbox"/> TAL Metals |
| <input type="checkbox"/> Dissolved Metals-list: | <input type="checkbox"/> Ammonia |
| <input type="checkbox"/> Bacteria MPN | <input type="checkbox"/> T-Phosphorus |
| <input type="checkbox"/> Cyanide | <input type="checkbox"/> Sulfide |
| <input type="checkbox"/> Nitrate | <input type="checkbox"/> Nitrite |
| <input type="checkbox"/> Corrosivity | <input type="checkbox"/> Reactive CN |
| <input type="checkbox"/> TCLP Metals | <input type="checkbox"/> TCLP VOC |
| <input type="checkbox"/> Subcontract: | <input type="checkbox"/> Grain Size |

| Lab Sample ID (Lab Use Only) | Field ID | # CONTAINERS | Matrix | | | Preservation Method | | | | | Sampling | | |
|---------------------------------|--------------|--------------|--------|-------|-------|---------------------|------|-------|------|------|----------|------|---------|
| | | | WATER | SOLID | OTHER | HCl | HNO3 | H2SO4 | NaOH | MeOH | DATE | TIME | SAMPLER |
| 4064201 | USGC-(12-24) | 2 | | X | | | | | | | 6/12/17 | 1530 | MK |
| 02 | Mark's Mix | 2 | | X | | | | | | | ↓ | 1630 | MK |

TAT REQUESTED
 Priority (24 hr)*
 Expedited (48 hr)*
 Standard (10 Business Days)
 *Date Needed 6/16/17

See absoluteresourceassociates.com for sample acceptance policy and current accreditation lists.

SPECIAL INSTRUCTIONS
Need Preliminary results by Friday 6/16/17 !! **

REPORTING INSTRUCTIONS PDF (e-mail address) Same as above

HARD COPY REQUIRED FAX (FAX#)

RECEIVED ON ICE YES NO
 TEMPERATURE 3 °C

| | | | | |
|--|--|---|--|---|
| CUSTODY RECORD QSD-01 Revision 1/27/16 | Relinquished by Sampler: <u>Maureen King</u> | Date: <u>6/12/17</u> Time: <u>1745</u> | Received by: <u>UPS</u> | Date: <u>6/12/17</u> Time: <u>1745</u> |
| | Relinquished by: | Date: Time: | Received by: | Date: Time: |
| | Relinquished by: <u>UPS</u> | Date: <u>6/14/17</u> Time: <u>10515</u> | Received by Laboratory: <u>[Signature]</u> | Date: <u>6/14/17</u> Time: <u>10515</u> |

Attachment E
Waste Disposal Manifest





An Environmental Services Company

Job #

11428-4

3035

www.enpro.com

www.enpro.com

www.enpro.com

www.enpro.com

www.enpro.com

www.enpro.com

| | | | | |
|--|--|---|-----------------------|--|
| NON HAZARDOUS WASTE MANIFEST | | 1. Generator's US EPA ID No. NON-REQUIRED 58128 | Manifest Document No. | 2. Page 1 of 1 |
| 3. Generator's Name and Mailing Address United States Coast Guard 475 Oliver Street, Suite 100 Warwick RI 02886 | | Attr: Milk Address | | A. Non-Hazardous Manifest Document Number NH2001 58128 |
| 4. Generator's Phone (401) 736-1708 | | 6. US EPA ID Number MAC900098399 | | B. S.G. (Gen. Site Address) Warwick RI 02886 |
| 5. Transporter 1 Company Name ENPRO SERVICES, INC. | | 7. Transporter 2 Company Name | | C. S.T.I. (Lic. Plate #) |
| 9. Designated Facility Name and Site Address JUNIPER RIDGE LANDFILL 2828 BENNOCH ROAD WEST OLD TOWN ME 04488 | | 8. US EPA ID Number | | D. Transporter's Phone 878-25-1885 |
| 10. US EPA ID Number | | E. S.T.I. (Lic. Plate #) | | F. Transporter's Phone |
| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | | 12. Containers | | G. State Facility's ID |
| a. NON-RORA, NON-DOT REGULATED MATERIAL | | No. | Type | H. Facility's Phone |
| | | 0 | T | |
| b. | | | | |
| c. | | | | |
| d. | | | | |
| 13. Total Quantity | | 14. Unit W/Vol | | I. Waste No. |
| 6300 | | T | | State NONE |
| | | | | State NONE |
| J. Additional Descriptions for Materials Listed Above (3) SOIL FROM 153 | | K. Handling Codes for Wastes Listed Above | | State |
| a | | Interim Final | | State |
| b | | Interim Final | | State |
| c | | Interim Final | | State |
| d | | Interim Final | | State |
| 15. Special Handling Instructions and Additional Information EN CONTACT ENPRO SERVICES INC. - 24 HOURS - (800) 968-1102 1) NRC PO# 90540-5059 Point of Departure: ENPRO JOB# 114284 | | | | |
| 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, and all applicable state laws and regulations. | | | | |
| Printed/Typed Name STACY W. TOWNE (CROFAR) | | Signature <i>Stacy W Towne</i> | | Month Day Year 10/10/17 |
| 17. Transporter 1 Acknowledgement of Receipt of Materials | | | | |
| Printed/Typed Name <i>Bob MacGeehan</i> | | Signature <i>Bob MacGeehan</i> | | Month Day Year 10/12/17 |
| 18. Transporter 2 Acknowledgement of Receipt of Materials | | | | |
| Printed/Typed Name | | Signature | | Month Day Year |
| 19. Discrepancy Indication Space | | | | |
| 20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19. | | | | |
| Printed/Typed Name <i>Lauren Plisset</i> | | Signature <i>Lauren Plisset</i> | | Month Day Year 10/12/17 |

TRANSPORTER #2

114284

ap317010z

NEWSME, LLC

A Division of Casella Waste Systems
2828 BENNOCH RD. (207) 394-4372
OLD TOWN, ME 04468

Ticket: 317010

Date: 6/22/2017

Time: 11:25:07 - 12:27:34

Customer: LG-00400/ENPRO SERVICES

Carrier: ENPRO/ENPRO

Truck: 3035

Truck Type: TK/TANKER

Profile: 10753/ENPRO SERVICES-US COA

Generator: US COAST GUARD/UNITED STATE

Driver: CELL 9/CELL 9

P.O.: 56128

Gross: 59800 L In Scale SCALE1

Tare: 42420 L Out Scale SCALE1

Net: 17380 L


Tons: 8.69

Materials & Services

Origin: JONESPORT/JONESPORT

Material: UF/URBAN FILL SOILS

Quantity: 8.69 Ton


Weighmaster: CBRIGGS


Driver:

By signing above, I declare that I did NOT
deposit any PROHIBITED WASTES
